

Tuesday, February 23, 2010

REQUEST NUMBER: 10-2013

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020						
1		1	RE15-10-8022	R	2/18/2010	
1		1	RE15-10-8023	R	2/18/2010	
1		1	RE15-10-8024	R	2/18/2010	
1		1	RE15-10-8025	R	2/18/2010	
1		1	RE15-10-8026	R	2/18/2010	
1		1	RE15-10-8033	R	2/18/2010	
1		1	RE15-10-8065	R	2/18/2010	
1		1	RE15-10-8066	R	2/18/2010	
1		1	RE15-10-8086	W	2/18/2010	
1		1	RE15-10-8088	W	2/18/2010	
1		1	RE15-10-8089	W	2/18/2010	
SW-846:6850						
1		1	RE15-10-8013	R	2/18/2010	
1		1	RE15-10-8014	R	2/18/2010	
1		1	RE15-10-8015	R	2/18/2010	
1		1	RE15-10-8016	R	2/18/2010	
1		1	RE15-10-8017	R	2/18/2010	
1		1	RE15-10-8018	R	2/18/2010	
1		1	RE15-10-8019	R	2/18/2010	
1		1	RE15-10-8020	R	2/18/2010	
1		1	RE15-10-8021	R	2/18/2010	
1		1	RE15-10-8022	R	2/18/2010	
1		1	RE15-10-8023	R	2/18/2010	
1		1	RE15-10-8024	R	2/18/2010	
1		1	RE15-10-8025	R	2/18/2010	
1		1	RE15-10-8026	R	2/18/2010	
1		1	RE15-10-8033	R	2/18/2010	
1		1	RE15-10-8065	R	2/18/2010	
1		1	RE15-10-8066	R	2/18/2010	

Tuesday, February 23, 2010

REQUEST NUMBER: 10-2013

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6850		1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
SW-846:7470A		1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
SW-846:7471A		1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
		1	RE15-10-8013	R	2/18/2010	
SW-846:9012A		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	

Tuesday, February 23, 2010

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REQUEST NUMBER: 10-2013

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9012A						
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
		1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	

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Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2013

LOS ALAMOS

REQUEST NUMBER: 10-2013

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/25/2010

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
RE15-10-8019	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8013	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8026	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8017	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8025	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8022	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8014	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8023	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8020	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8018	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8015	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8021	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8024	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8016	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8065	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8066	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8033	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8089	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8089	1	POLY	SW-846:8850	Ice	W
RE15-10-8089	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8086	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8086	1	POLY	SW-846:8850	Ice	W
RE15-10-8086	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8088	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8088	1	POLY	SW-846:8850	Ice	W
RE15-10-8088	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:

Date

Time

Received By:

Date

Time

[Signature]
 Printed Name Signature

2/23/10 1400

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8013

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)		12:14:5		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610776			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	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 RC	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist dark brown silty sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-23, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 5 dpm
Beta/Gamma \leq 2220 dpm

HE neg.
PID $\frac{\text{Ambient Reading}}{0.1} = 0.0$ ppm

COLLECTED BY (PRINT)

TLMcFarlane

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>Jon Roberson</i> (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8014

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	QBT3		
TIME COLLECTED(HH:MM)		1152		SUB-MEDIA:	TUFF 1		ok
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		
LOCATION ID:	15-610776	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown dry, tuff and black ash

SAMPLE COMMENTS:

Tuff at 1.5 ft

LOCATION DESC:

8b-23

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 33 dpm
Beta/Gamma = 2250 dpm

PID $\frac{\text{Ambient Reading}}{0.1} = 0.0$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>Jon Roberson</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) <i>Jeffrey G.</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8015

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: OBT3		SEP	
TIME COLLECTED(HH:MM)		1209		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610777	↓		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	SEP		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	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 2/11/10 de	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Frozen dark brown sand, tuff fragments, pine needles

SAMPLE COMMENTS:

Tuff at 0.5 ft 12m 2/18/10

LOCATION DESC:

8b-15, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 5 dpm
Beta/Gamma \leq 1762 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.2}$ ppm

COLLECTED BY (PRINT)

JL McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8016

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	OBT3		Allh
TIME COLLECTED (HH:MM)		1215		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610777	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		↓
TOP DEPTH:	0	0.5	1.1	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.0	4.1	SCREEN/PORT DESC:			NA
FIELD MATRIX:	B	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 2e	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand and clay

FR: RE15-10-8086

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-15, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

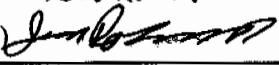
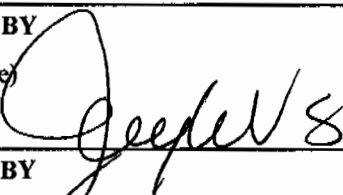
Alpha \leq 22 dpm
Beta/Gamma \leq 2100 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.3}$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Jon Roberson (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8017

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		QBT3
TIME COLLECTED(HH:MM)		1317	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	15-610778	↓	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	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 XC	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist dark brown sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-4, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

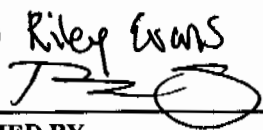
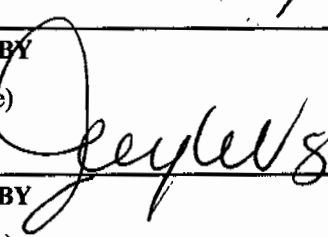
Alpha \leq 27 dpmBeta/Gamma \leq 3560 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Th McFarlane

REVIEWED BY (PRINT)

Larry A Lopez

RELINQUISHED BY (Printed Name) Rilee Evans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Jeylen (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8018

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1339		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610778			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

moist dark brown silty sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-4 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 3980 dpm

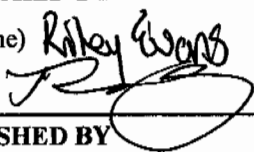
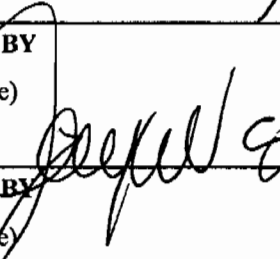
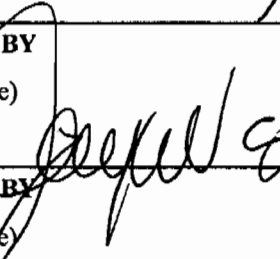
PID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

JLM of Farland

REVIEWED BY (PRINT)

Larry A Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8019

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	02/18/2010	MEDIA:	OBT3
TIME COLLECTED(HH:MM)	1320	SUB-MEDIA:	TUFF 1
PRS ID: 15-008(b)	ok	SAMPLE TECH CODE: HA	ok
LOCATION ID: 15-610779	↓	FIELD QC TYPE: NA	↓
LOCATION TYPE: GENERIC	↓	FIELD PREP: NA	↓
TOP DEPTH: 0	0.0	SAMPLE USAGE: INV	↓
BOTTOM DEPTH: 0	0.5	SCREEN/PORT DESC:	NA
FIELD MATRIX: R	S	EXCAVATED: YES/NO/NA	
COMPOSITE TYPE: NA	COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA	
BOREHOLE: YES/NO/NA	BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA	

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

SAMPLE DESC:

Light brown and dark brown sandy silt

SAMPLE COMMENTS:

Tuff at 6 in

LOCATION DESC: 8b-24

FIELD SCREENING/MEASUREMENT RESULTS:

HE = neg

Alpha \leq 19 dpmBeta/Gamma \leq 2410 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Thm c Farlane

REVIEWED BY (PRINT)

Laney A. Lopez

RELINQUISHED BY (Printed Name) <u>Laney A. Lopez</u> (Signature) <u>[Signature]</u>	Date/Time <u>2/18/10</u> <u>1650</u>	RECEIVED BY (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>2/18/10</u> <u>1650</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8020

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1327		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610779	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Light brown weathered
tuff, weather roots
T3m 2/18/10

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-24

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 44 dpm
Beta/Gamma = 2340 dpm

PID $\frac{\text{Ambient Reading}}{0.1} = \frac{0.0}{0.1}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

LARRY A. LOPEZ

RELINQUISHED BY (Printed Name) Riley Gwans (Signature)	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8021

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: QBT3		Allh	
TIME COLLECTED (HH:MM)		1404		SUB-MEDIA: TUFF1		NA	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610780	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown sandy silt, roots, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-26

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 11 dpmBeta/Gamma \leq 270 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Laney A. Lopez

RELINQUISHED BY (Printed Name) Riley Ewings (Signature)	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8022

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1410	SUB-MEDIA:	TUFF 1	L
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610780	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	1.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	2.0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

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

SAMPLE DESC:

Gray tuff, some roots

FR: RE15-10-8088

SAMPLE COMMENTS:

Tuff at 1.0 ft

LOCATION DESC:

8b-26

FIELD SCREENING/MEASUREMENT RESULTS:

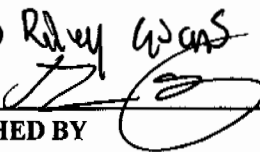
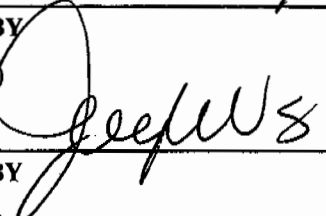
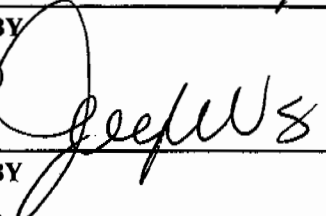
Alpha = 27 dpm
Beta/Gamma = 2270 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Riley W. Gans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8023

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1424		SUB-MEDIA:		TUFF 1	
PRS ID: 15-008(b)		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 15-610781		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

moist brown silty sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-14

FIELD SCREENING/MEASUREMENT RESULTS:

HE neg

Alpha \leq 11 dpm
Beta/Gamma \leq 2000 dpm

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

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) [Signature]	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8024

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1435		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610781	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		UA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

moist brown silty clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-14

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 2060 dpm

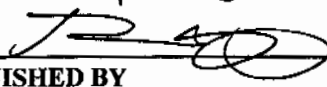
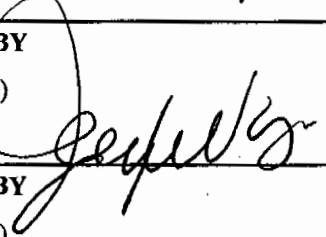
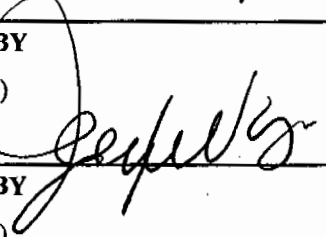
PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Grey A. Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8025

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1504		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610782	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

moist brown silty sand, some clay

FD: RE15-10-8066

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-12

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \pm 22 dpmBeta/Gamma \pm 180 dpmPID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Riley Evans (Signature)	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrigherwood (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8026

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: OBT3		A11h	
TIME COLLECTED (HH:MM)		1515		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610782	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown slightly moist silty clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-12

FIELD SCREENING/MEASUREMENT RESULTS:

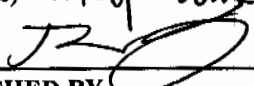

Alpha \leq 0 dpm
Beta/Gamma \leq 2010 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Riky Wms (Signature) 	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8033

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA: OBT3		SED	
TIME COLLECTED (HH:MM)		1055		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	UNK	15-610773		FIELD QC TYPE: NA		FD	
LOCATION TYPE:	GENERIC	OK		FIELD PREP: NA		OK	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		QC	
BOTTOM DEPTH:	0	0.8		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	72m 2/18/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY Liter 1/11/10 2c	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC sample of RE15-10-8007
Brown merist silty sand

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-10 drainage HE neg

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 22 dpm
Beta/Gamma \pm 2010 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Jan Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Z...	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 2/16/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8065

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		OBT3
TIME COLLECTED (HH:MM)		1307	SUB-MEDIA:		TUFF 1
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:		HA
LOCATION ID:	UNK	15-010717	FIELD QC TYPE:		ED
LOCATION TYPE:	GENERIC	OK	FIELD PREP:		NA
TOP DEPTH:	0	0.0	SAMPLE USAGE:		QC
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	SED	EXCAVATED: YES/NO		NA
COMPOSITE TYPE:		NA	COMPOSITE TIME INTERVAL:		NA
BOREHOLE: YES/NO		NA	BOREHOLE DECLINATION:		NA
			BOREHOLE DIRECTION:		NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter 1/11/10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7895

Brown sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-17 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 27 dpm
Beta/Gamma \leq 2130 dpm


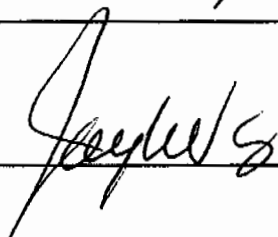
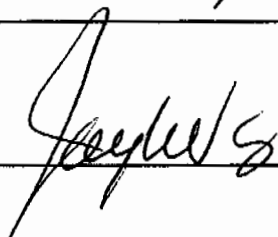
PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

ThMcFarlane

REVIEWED BY (PRINT)

Lorey A. Lopez

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/18/00 1650	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8066

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	QBT3		AMh
TIME COLLECTED (HH:MM)		1504		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	UNK	15-610782		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	47m 2/18/10 80827-NMED-HEXP	250 ML AMBER GLASS	Ice	y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1		H3	500 ML POLY	Ice	y	
1		Met+U+CLO4+C N	1 GAL POLY 11 liter 1.11.10 ²⁰	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: QC Sample of RE15-10-8025

moist brown silty sand, some clay

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-12

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 1810 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0} \text{ ppm}$

COLLECTED BY (PRINT)

J. McFarland

REVIEWED BY (PRINT) J. Roberson

RELINQUISHED BY (Printed Name) Wiley Ewins (Signature)	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherri Newwood (Signature)	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8086

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		1240		SUB-MEDIA:	OTHER		
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610777		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:			NA
FIELD MATRIX:	W			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE15-10-8016

SAMPLE COMMENTS:

~~FTB~~ Rinsate
T3m 2/18/10

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = ~~73m 2/18/10~~ dpm
Beta/Gamma = ~~73m 2/18/10~~ dpm

PID ~~73m 2/18/10~~ Ambient Reading = ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Robertson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy L. McFarland	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) Sherrif Sherwood	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8088

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/18/2010	MEDIA:		NA
TIME COLLECTED (HH:MM)		1420	SUB-MEDIA:		OTHER
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:		DC
LOCATION ID:	UNK	15-G10780	FIELD QC TYPE:		ER
LOCATION TYPE:	GENERIC	OK	FIELD PREP:		UF
TOP DEPTH:	0		SAMPLE USAGE:		QC
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	W		EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA		

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

SAMPLE DESC: QC Sample of RE15-10-8022

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = NA dpm
 Beta/Gamma = NA dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Zant	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) Sherrish Sherwood (Signature) Sherrish Sherwood	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

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

SAMPLE ID: RE15-10-8089

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/18/2010		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1042		SUB-MEDIA:	OTHER		
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610771		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:			NA
FIELD MATRIX:	W			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of

RE15-10-8004

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

Alpha = dpm 12m 2/18/10
 Beta/Gamma = dpm

PID Ambient Reading = ppm 72m 2/18/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>Tracy Z...</i>	Date/Time 2/18/10 1650	RECEIVED BY (Printed Name) <i>Shervi Sherwood</i> (Signature) <i>Shervi Sherwood</i>	Date/Time 2/18/10 1650
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

RE15-10-7893

7894

8001

8002

8003

8004

8005

8006

8009

8010

8007

8008

RE15-10-8011

8012

8013

8014

8015

8016

7895

7896

8017

8018

8019

8020

7897

RE15-10-7898

8021

8022

8023

8024

7899

7900

8025

8026

8026

8066

8065

8033

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):

RE15-10-8086

8088

8089

Reason: Rinse

Print Last Name McFarland

Signature Tracy Gut

Date 2/18/10



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8013

ARS Sample ID: ARS2-10-00062-001

Sample Collection Date: 02/18/10 11:45

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	24.49	25.95	37.39	26.12		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	43.59	15.63	18.23	16.51		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.78	0.14	43.78		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	21.40	12.31	3.59	12.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.13	0.28	0.15	0.28		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.56	0.34	0.08	0.34		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.50	-2.18	0.38	-2.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.15	0.50	0.15	0.50		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.81	0.58	0.37	0.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.87	1.23	0.61	1.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	13.23	5.36	1.73	6.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.04	0.25	0.14	0.25		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 2.39										

Matt J. Edley
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8014

ARS Sample ID: ARS2-10-00062-002

Sample Collection Date: 02/18/10 11:52

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	14.40	20.52	34.06	20.59		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	20.94	12.78	17.92	13.03		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.11	0.14	43.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	2.71	7.30	3.32	7.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.08	0.12	0.14	0.12		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.05	41.91	0.10	41.91		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	36.95	0.08	36.95		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.30	0.35	0.37	0.35		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.43	0.54	0.15	0.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.14	0.36	0.36	0.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.85	0.80	0.45	0.80		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.18	5.06	2.15	5.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.04	-0.41	0.12	-0.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.67


Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8015

ARS Sample ID: ARS2-10-00062-003

Sample Collection Date: 02/18/10 12:09

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	77.63	19.44	18.31	21.64		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	35.80	0.11	35.80		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	20.25	7.79	1.23	7.82		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.10	0.12	0.12	0.12		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.07	0.09	0.11	0.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.42	0.26	0.07	0.26		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.05	0.09	0.31	0.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.74	0.37	0.12	0.37		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.15	0.88	0.30	0.89		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	2.28	1.08	0.52	1.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	7.80	4.08	1.51	4.45		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.06	0.23	0.12	0.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 4.14

Matthew J. Edler
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8016

ARS Sample ID: ARS2-10-00062-004

Sample Collection Date: 02/18/10 12:13

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	23.52	24.07	33.91	24.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	34.55	14.55	17.73	15.15		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.04	0.16	0.13	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	28.71	9.85	1.39	9.88		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.08	0.11	0.13	0.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.25	0.22	0.10	0.22		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.54	156.01	0.35	156.01		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.12	0.49	0.16	0.49		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.91	0.86	0.34	0.86		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.42	0.38	0.42	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	3.60	3.47	1.50	3.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.00	-0.14	0.09	-0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.22										

Matthew L. Eden
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Client Sample ID: RE15-10-8017

Sample Collection Date: 02/18/10 13:17

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00062-005

Date Received: 02/19/10 00:00

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	29.37	27.79	37.46	28.02		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	95.03	20.48	18.42	23.55		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	30.58	0.10	30.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	19.54	8.03	1.67	8.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.05	0.11	0.14	0.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.41	135.26	0.30	135.26		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.93	0.38	0.12	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.07	0.86	0.36	0.86		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.40	1.15	0.57	1.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	48.91	8.17	2.20	13.84		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.67	0.69	0.27	0.69		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 2.31

Mark J. Eden
Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8018

ARS Sample ID: ARS2-10-00062-006

Sample Collection Date: 02/18/10 13:39

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	9.75	18.43	34.06	18.47		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	66.88	17.68	17.92	19.48		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	44.91	0.14	44.91		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.94	4.98	2.68	4.98		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.09	0.18	0.15	0.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.38	0.24	0.11	0.24		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.02	0.04	0.09	0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.59	-3.11	0.41	-3.11		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.93	0.64	0.17	0.64		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	3.61	1.25	0.38	1.25		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	2.06	1.30	0.68	1.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	43.49	7.76	1.97	12.61		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.20	0.48	0.24	0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.93										

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LELAP Certificate# 30658

NELAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8019

ARS Sample ID: ARS2-10-00062-007

Sample Collection Date: 02/18/10 13:20

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	45.07	16.17	18.31	17.08		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	52.03	0.17	52.03		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	30.52	11.54	1.79	11.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.17	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.07	50.59	0.12	50.59		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.36	0.30	0.10	0.30		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.08	-0.15	0.47	-0.15		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	0.86	0.54	0.22	0.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.32	1.18	0.44	1.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.14	0.85	0.64	0.85		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	7.04	4.82	1.89	5.09		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.07	0.23	0.13	0.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 1.66										

Matthew J. Edley
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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8020

ARS Sample ID: ARS2-10-00062-008

Sample Collection Date: 02/18/10 13:27

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	18.91	22.31	33.89	22.43		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	42.25	15.42	17.91	16.27		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	42.91	0.14	42.91		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	17.38	12.48	3.82	12.49		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.22	0.16	0.10	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.05	0.10	0.08	0.10		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.01	0.02	0.37	0.02		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.56	0.63	0.23	0.63		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.86	0.48	0.36	0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.89	0.59	0.51	0.59		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.04	4.13	1.76	4.23		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.47	0.40	0.15	0.40		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 0.53										

M. Matthews
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8021

ARS Sample ID: ARS2-10-00062-009

Sample Collection Date: 02/18/10 14:04


Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-0.22	14.30	37.46	14.30		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	40.79	15.04	18.42	15.84		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	46.56	0.15	46.56		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	25.36	9.95	1.60	9.97		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.28	0.18	0.13	0.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.54	0.34	0.09	0.34		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.60	-2.94	0.42	-2.94		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.58	0.60	0.17	0.60		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.71	0.90	0.39	0.90		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.50	0.39	0.53	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.93	3.82	1.69	3.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.03	0.14	0.08	0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 1.49


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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8022

ARS Sample ID: ARS2-10-00062-010


Sample Collection Date: 02/18/10 14:10

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	5.17	16.04	34.07	16.06		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	25.34	13.23	18.08	13.59		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.05	46.87	0.15	46.87		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	36.33	11.95	1.62	11.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.06	45.57	0.11	45.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.05	0.17	0.10	0.17		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.29	0.35	0.41	0.35		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.49	0.63	0.18	0.63		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.55	1.32	0.39	1.32		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.04	0.07	0.61	0.07		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	10.62	5.23	1.73	5.76		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.16	0.20	0.09	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 0.34										


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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8023

ARS Sample ID: ARS2-10-00062-011

Sample Collection Date: 02/18/10 14:24

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	36.70	15.22	18.31	15.87		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.04	0.14	0.12	0.14		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.00	972.02	2.18	972.02		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.25	0.16	0.10	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.21	0.19	0.07	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.58	0.48	0.32	0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.42	0.50	0.15	0.51		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	136.13	0.31	136.13		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	-0.11	-0.48	0.46	-0.48		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	1.93	3.16	1.46	3.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.41	0.38	0.14	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
NOTES: % Moisture: 2.18										

M. A. S. S. S.
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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8024

ARS Sample ID: ARS2-10-00062-012

Sample Collection Date: 02/18/10 14:33

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	23.52	24.07	33.91	24.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	30.24	14.05	17.73	14.53		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	29.00	10.96	1.70	10.99		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.06	48.08	0.11	48.08		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.17	0.20	0.09	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.67	191.41	0.43	191.41		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.28	0.60	0.21	0.60		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	2.01	1.42	0.41	1.42		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.17	1.38	0.64	1.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	2.08	3.93	1.85	3.96		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.04	46.83	0.11	46.83		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 1.34

Matthew A. Eder
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8025

ARS Sample ID: ARS2-10-00062-013

Sample Collection Date: 02/18/10 15:04

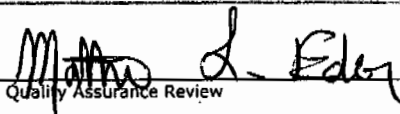
Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	4.74	17.25	37.39	17.26		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	35.76	14.45	18.23	15.10		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	34.73	0.11	34.73		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	19.64	7.56	1.20	7.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.04	0.07	0.12	0.07		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.20	0.17	0.12	0.17		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.23	-0.51	0.33	-0.51		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.19	0.44	0.11	0.44		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.76	0.68	0.44	0.68		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.68	1.05	0.44	1.06		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	1.63	2.40	1.21	2.43		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.07	0.21	0.10	0.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 3.32


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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8026

ARS Sample ID: ARS2-10-00062-014

Sample Collection Date: 02/18/10 15:15

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-8.67	3.43	34.06	3.59		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	18.53	11.95	17.92	12.16		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	43.85	0.14	43.85		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	29.40	10.39	1.51	10.43		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.18	0.25	0.15	0.25		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.32	0.24	0.10	0.24		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.64	0.60	0.40	0.60		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.12	0.52	0.18	0.52		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.26	0.54	0.56	0.54		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.92	0.86	0.46	0.86		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	4.56	4.34	1.77	4.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.01	0.19	0.11	0.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.92


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ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8033

ARS Sample ID: ARS2-10-00062-015

Sample Collection Date: 02/18/10 10:55

Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	22.02	23.32	32.65	23.48		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	53.34	17.04	18.12	18.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.04	37.39	0.12	37.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	1.31	7.58	3.94	7.58		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.27	0.20	0.12	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	-0.05	119.33	0.22	119.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.87	0.39	0.07	0.39		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	0.11	0.16	0.34	0.16		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.15	0.46	0.13	0.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.78	0.84	0.31	0.84		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.92	1.05	0.54	1.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	24.28	5.45	1.39	7.78		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.18	0.36	0.17	0.36		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 3.05

Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062

Request or PO Number:

Client Sample ID: RE15-10-8065

ARS Sample ID: ARS2-10-00062-016

Sample Collection Date: 02/18/10 13:07


Date Received: 02/19/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	23.52	24.07	33.91	24.24		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	36.27	14.74	17.73	15.40		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	0.05	0.20	0.16	0.20		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.00	0.00	1.79	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.17	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.01	0.04	0.25	0.04		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.02	0.05	0.10	0.05		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.16	-0.33	0.47	-0.33		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.56	0.57	0.10	0.57		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	1.24	0.66	0.43	0.66		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	1.93	1.20	0.88	1.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	0.91	2.87	1.59	2.88		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	-0.04	49.19	0.11	49.19		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 0.91


Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00062
 Client Sample ID: RE15-10-8066
 Sample Collection Date: 02/18/10 13:04
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00062-017
 Date Received: 02/19/10 00:00
 Report Date: 02/22/10 14:25

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-0.17	14.27	37.46	14.27		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
GROSS BETA	21.95	12.81	18.42	13.09		pCi/g	EPA 900.0M	2/22/2010	NP	N/A
NA-22	-0.03	34.18	0.11	34.18		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
K-40	0.84	8.53	3.88	8.53		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-134	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
CS-137	0.04	0.08	0.07	0.08		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
EU-152	-0.21	-0.44	0.30	-0.44		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
PB-212	1.26	0.45	0.13	0.46		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
RA-228	0.00	0.00	0.29	0.00		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-235	0.42	0.38	0.35	0.38		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
U-238	6.70	4.98	1.83	5.21		pCi/g	EPA 901.1M	2/22/2010	NP	N/A
AM-241	0.19	0.24	0.10	0.24		pCi/g	EPA 901.1M	2/22/2010	NP	N/A

NOTES: % Moisture: 2.22

Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2013 VALIDATION DATE: 04/30/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check


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

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


- The MS/MSD %R calculations were performed incorrectly for both matrices. The parent sample results were < the MDL and, thus, a result of 0 µg/kg or 0 µg/L should have been used to calculate the %Rs. The laboratory subtracted the parent sample concentrations. The %Rs were within the acceptance limits when calculated correctly. In addition, the aqueous parent QC sample was an FR blank. No sample results were qualified.

Reviewed by: Mary Donovan Level: I Date: 05/03/10


VALIDATOR'S SIGNATURE: [Signature] DATE: 04/30/10

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

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

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

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

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

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

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.

RE15-10-8019

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907001

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 84

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.629	ug/kg	J	1	12-MAR-10 16:55	per0312055a
	Perchlorate Isotope Ratio			3.04			1	12-MAR-10 16:55	per0312055a
14797-73-0	Perchlorate-101	.597	2.39	0.630	ug/kg	J	1	12-MAR-10 16:55	per0312055a
	Perchlorate-O(18)			5.84	ug/kg		1	12-MAR-10 16:55	per0312055a

[^] 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: 258909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8013

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907002

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.638	2.55	0.638	ug/kg	U	1	12-MAR-10 17:31	per0312059a
	Perchlorate Isotope Ratio						1	12-MAR-10 17:31	per0312059a
14797-73-0	Perchlorate-101	.638	2.55	0.638	ug/kg	U	1	12-MAR-10 17:31	per0312059a
	Perchlorate-O(18)			6.24	ug/kg		1	12-MAR-10 17:31	per0312059a

[^] 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 perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 258909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8026

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907003

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 90.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	2.13	ug/kg	J	1	12-MAR-10 17:59	per0312062a
	Perchlorate Isotope Ratio			3.07			1	12-MAR-10 17:59	per0312062a
14797-73-0	Perchlorate-101	.55	2.2	2.12	ug/kg	J	1	12-MAR-10 17:59	per0312062a
	Perchlorate-O(18)			6.05	ug/kg		1	12-MAR-10 17:59	per0312062a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8017
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907004
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 75

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	.666	2.66	0.666	ug/kg	U	1	12-MAR-10 18:08	per0312063a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:08	per0312063a
14797-73-0	Perchlorate-101	.666	2.66	0.666	ug/kg	U	1	12-MAR-10 18:08	per0312063a
	Perchlorate-O(18)			6.56	ug/kg		1	12-MAR-10 18:08	per0312063a

[^] 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: 958909

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8025

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907005

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 68

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	.737	2.95	0.737	ug/kg	U	1	12-MAR-10 18:17	per0312064a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:17	per0312064a
14797-73-0	Perchlorate-101	.737	2.95	0.737	ug/kg	U	1	12-MAR-10 18:17	per0312064a
	Perchlorate-O(18)			7.39	ug/kg		1	12-MAR-10 18:17	per0312064a

[^] 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 I

Perchlorate Analysis Data Sheet

Client Sample No.

RE15-10-8022

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 24-FEB-10

Instrument: LCMSMS

GEL Job No (SDG): 10-2013

Method: SW846 6850 Modified

GEL Sample ID: 247907006

Matrix: SOIL

Date Filtered: 09-MAR-10

Extraction Batch ID: 958902

Injection Volume (uL): 20

Extraction Type: Solid Prep

%Solids: 96

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	.521	2.08	0.521	ug/kg	U	1	12-MAR-10 18:26	per0312065a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:26	per0312065a
14797-73-0	Perchlorate-101	.521	2.08	0.521	ug/kg	U	1	12-MAR-10 18:26	per0312065a
	Perchlorate-O(18)			5.27	ug/kg		1	12-MAR-10 18:26	per0312065a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8014
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907007
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 % Solids: 94
 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	.532	2.13	0.532	ug/kg	U	1	12-MAR-10 18:35	per0312066a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:35	per0312066a
14797-73-0	Perchlorate-101	.532	2.13	0.532	ug/kg	U	1	12-MAR-10 18:35	per0312066a
	Perchlorate-O(18)			5.26	ug/kg		1	12-MAR-10 18:35	per0312066a

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8023
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907008
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.609	2.44	0.609	ug/kg	U	1	12-MAR-10 18:44	per0312067a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:44	per0312067a
14797-73-0	Perchlorate-101	.609	2.44	0.609	ug/kg	U	1	12-MAR-10 18:44	per0312067a
	Perchlorate-O(18)			6.30	ug/kg		1	12-MAR-10 18:44	per0312067a

[^] 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: 958909

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8020

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907009

Date Filtered: 09-MAR-10

Injection Volume (mL): 20

%Solids: 93.9

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	.533	2.13	0.569	ug/kg	J	1	12-MAR-10 18:53	per0312068a
	Perchlorate Isotope Ratio			2.69			1	12-MAR-10 18:53	per0312068a
14797-73-0	Perchlorate-101	.533	2.13	0.646	ug/kg	J	1	12-MAR-10 18:53	per0312068a
	Perchlorate-O(18)			5.17	ug/kg		1	12-MAR-10 18:53	per0312068a

[^] 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: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8018
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907010
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 79

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.632	2.53	0.632	ug/kg	U	1	12-MAR-10 19:30	per0312072a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:30	per0312072a
14797-73-0	Perchlorate-101	.632	2.53	0.632	ug/kg	U	1	12-MAR-10 19:30	per0312072a
	Perchlorate-O(18)			6.42	ug/kg		1	12-MAR-10 19:30	per0312072a

^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

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: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8015
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907011
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 63

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.798	3.19	0.798	ug/kg	U	1	12-MAR-10 19:39	per0312073a
	Perchlorate Isotope Ratio								
14797-73-0	Perchlorate-101	.798	3.19	0.798	ug/kg	U	1	12-MAR-10 19:39	per0312073a
	Perchlorate-O(18)			7.92	ug/kg		1	12-MAR-10 19:39	per0312073a

[^] 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: 958909
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8021
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907012
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 86

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.582	2.33	0.582	ug/kg	U	1	12-MAR-10 19:48	per0312074a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:48	per0312074a
14797-73-0	Perchlorate-101	.582	2.33	0.582	ug/kg	U	1	12-MAR-10 19:48	per0312074a
	Perchlorate-O(18)			5.38	ug/kg		1	12-MAR-10 19:48	per0312074a

^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

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: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8024
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907013
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 87

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.575	2.3	0.575	ug/kg	U	1	12-MAR-10 19:57	per0312075a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:57	per0312075a
14797-73-0	Perchlorate-101	.575	2.3	0.575	ug/kg	U	1	12-MAR-10 19:57	per0312075a
	Perchlorate-O(18)			5.70	ug/kg		1	12-MAR-10 19:57	per0312075a

^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 $\frac{1}{\text{Aliquot}}$ %Solids

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.

RE15-10-8016

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 24-FEB-10

Instrument: LCMSMS

GEL Job No (SDG): 10-2013

Method: SW846 6850 Modified

GEL Sample ID: 247907014

Matrix: SOIL

Date Filtered: 09-MAR-10

Extraction Batch ID: 958909

Injection Volume (uL): 20

Extraction Type: Solid Prep

%Solids: 90.6

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc [*]	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.552	ug/kg	U	1	12-MAR-10 20:06	per0312076a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:06	per0312076a
14797-73-0	Perchlorate-101	.552	2.21	0.552	ug/kg	U	1	12-MAR-10 20:06	per0312076a
	Perchlorate-O(18)			5.48	ug/kg		1	12-MAR-10 20:06	per0312076a

[^] 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 perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8065
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907015
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 90.8

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.551	2.2	0.551	ug/kg	U	1	12-MAR-10 20:15	per0312077a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:15	per0312077a
14797-73-0	Perchlorate-101	.551	2.2	0.551	ug/kg	U	1	12-MAR-10 20:15	per0312077a
	Perchlorate-O(18)			5.43	ug/kg		1	12-MAR-10 20:15	per0312077a

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

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1 %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: 958909

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8066

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907016

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 81

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.619	2.48	0.619	ug/kg	U	1	12-MAR-10 20:24	per0312078a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:24	per0312078a
14797-73-0	Perchlorate-101	.619	2.48	0.619	ug/kg	U	1	12-MAR-10 20:24	per0312078a
	Perchlorate-O(18)			6.56	ug/kg		1	12-MAR-10 20:24	per0312078a

^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 %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: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8033
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907017
 Date Filtered: 09-MAR-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	.661	2.64	0.661	ug/kg	U	1	12-MAR-10 20:33	per0312079a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:33	per0312079a
14797-73-0	Perchlorate-101	.661	2.64	0.661	ug/kg	U	1	12-MAR-10 20:33	per0312079a
	Perchlorate-O(18)			6.52	ug/kg		1	12-MAR-10 20:33	per0312079a

^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: WATER
 Extraction Batch ID: 959043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-8089
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 247908001
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:33	per0308079a
	Perchlorate Isotope Ratio						1	09-MAR-10 03:33	per0308079a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:33	per0308079a
	Perchlorate-O(18)			0.438	ug/L		1	09-MAR-10 03:33	per0308079a

[^] 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 i

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 959043
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-8086
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 247908002
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20
 %Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:00	per0308082a
	Perchlorate Isotope Ratio						1	09-MAR-10 04:00	per0308082a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:00	per0308082a
	Perchlorate-O(18)			0.443	ug/L		1	09-MAR-10 04:00	per0308082a

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 259043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8088

Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 247908003
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:09	per0308083a
	Perchlorate Isotope Ratio						1	09-MAR-10 04:09	per0308083a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:09	per0308083a
	Perchlorate-O(18)			0.435	ug/L		1	09-MAR-10 04:09	per0308083a

[^] 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

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2013 VALIDATION DATE: 04/30/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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


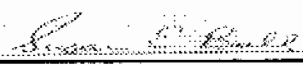
Section II. Completeness Check


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

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


- In the soil MB, Cr, Fe, Mn, Na, U, and Zn were detected. The Cr results for samples RE15-10-8014, -8017, -8018, -8020, -8033, and -8065; the Na results for samples -8016, -8021, -8025, and -8066; and the U results for samples -8014, -8016, -8020, -8022, -8024, and -8026 were detects >5X but ≤50X the MB concentrations and, thus, were qualified J,14a. The remaining sample results for Na, except for samples -8022 and -8026 were subsequently qualified ND due to FR blank outliers and, thus, were not qualified for the MB infraction. The remaining associated sample results including the Na results for samples -8022 and -8026 were detects >50X the MB concentrations and, thus, were not qualified.

In the aqueous MB, Se and Zn were detected. The Se result for sample -8089 and the Zn result for sample -8088 were detects ≤5X the MB concentrations and, thus, were qualified U,14. The remaining associated sample results were NDs and, thus, were not qualified.
- In the soil CCBs, Sb and Se were detected. The Sb result for sample -8017 and the Se results for samples -8014 and -8019 were detects ≤5X the greatest blank concentrations and, thus, were qualified U,14b. In the aqueous ICB and CCBs, Tl was detected. The Tl result for sample -8089 was a detect ≤5X the greatest blank concentration and, thus, was qualified U,14b. The remaining associated sample results were NDs and, thus, were not qualified.
- In the FR blanks, samples -8086, -8088, and -8089 associated with all the samples, Ca, Cu, Fe, Mg, K, Na, U, and V were detected. The associated Na results for samples -8013 through -8015; -8017 through -8020; -8023, -8024, -8065, and -8033 were detects ≤5X the greatest FR blank concentrations and, thus, were qualified U,14d. The remaining associated sample results were detects >5X the greatest FR blank concentrations and, thus, were not qualified.


DATA VALIDATION COVER SHEET	
5118-1 Data Validation Cover Sheet	Records Use only 
<p>4. The soil LCS %R for Sb was < the laboratory UAL but $\geq 10\%$. The associated sample results were NDs or qualified NDs and, thus, were qualified UJ,I12a.</p> <p>5. The soil MS %R for Se was < the laboratory LAL but $\geq 10\%$. The associated sample results were NDs or qualified NDs and, thus, were qualified UJ,I6a. The soil MS %Rs for Ca, Mg, Mn, K, and Zn were > the laboratory UAL. The associated sample results were detects and, thus, were qualified J+,I6b. The soil MS %Rs for Al and Fe were also > the laboratory UAL. However, the parent sample concentrations were >4X the spike concentrations and, thus, the Al and Fe sample results were not qualified, based on professional judgment.</p> <p>6. The soil duplicate RPDs for Al, Ca, Cr, Cu, Pb, Mg, Mn, K, and Zn were >35%, and both the parent and the duplicate sample results were $\geq 5X$ the PQLs. The associated sample results were detects and, thus, were qualified J,I10a.</p> <p>7. It should be noted that aqueous QC parent samples were from other LANL RNs. In addition, raw data for the ICP and ICP-MS parent QC sample were not included in the data package. No sample results were qualified.</p> <p>Reviewed by: <u>Mary Donovan</u> Level: <u>I</u> Date: <u>05/03/10</u></p>	
<p>VALIDATOR'S SIGNATURE: <u></u> DATE: <u>04/30/10</u></p>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

Yes No N/A				Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is $\geq 50\%$ and $< 80\%$	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Metals interference check sample percent recovery value is $> 120\%$.	N/A	J+, I2b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, I4	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5X$.	N/A	J, I4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input 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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

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

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907001

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8019

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,I10a	4160000	ug/Kg	*	7220	21200	21200	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-36-0	Antimony UJ,I12a	1060	ug/Kg	U	350	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-38-2	Arsenic	1.12	mg/kg	J	0.227	1.14	1.14	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-39-3	Barium	37800	ug/Kg	*	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-41-7	Beryllium	0.845	mg/kg		0.0227	0.114	0.114	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-43-9	Cadmium	233	ug/Kg	J	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-70-2	Calcium J+,I6b	1410000	ug/Kg	*N	8490	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-47-3	Chromium J,I10a	7790	ug/Kg	*	159	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-48-4	Cobalt	1570	ug/Kg	*	159	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-50-8	Copper J,I10a	16300	ug/Kg	*	318	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-89-6	Iron	8930000	ug/Kg	*	8490	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-92-1	Lead J,I10a	11600	ug/Kg	*	265	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-95-4	Magnesium J+,I6b	828000	ug/Kg	*N	9020	31800	31800	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-96-5	Manganese J+,I6b	200000	ug/Kg	*N	212	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-97-6	Mercury	11	ug/kg	J	4.73	13.9	13.9	1	AV	JXL1	03/12/10 12:16	031210S1-5	958728
7440-02-0	Nickel	4.1	mg/kg		0.114	0.454	0.454	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-09-7	Potassium J+,I6b	716000	ug/Kg	*N	6790	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7782-49-2	Selenium U,I4b	0.628	mg/kg	JN	0.568	1.14	1.14	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-22-4	Silver	531	ug/Kg	U	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-23-5	Sodium U,I4d	94700	ug/Kg		7430	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-28-0	Thallium	0.227	mg/kg	U	0.0681	0.227	0.227	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-61-1	Uranium	9.2	mg/kg	*N	0.0148	0.0449	0.0449	2	MS	PRB	04/15/10 19:33	100415-2	969760
7440-62-2	Vanadium	9350	ug/Kg	*	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-66-6	Zinc J+,I6b	38600	ug/Kg	*N	350	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol	Units	Final wt/vol	Units	Date	Analyst
958057	958056	SW846 3050B	0.563	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.526	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.515	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.532	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907002

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8013

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	4800000	ug/Kg	*	7370	21700	21700	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-36-0	Antimony UJ,112a	1080	ug/Kg	U	358	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-38-2	Arsenic	3.03	mg/kg		0.214	1.07	1.07	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-39-3	Barium	52300	ug/Kg	*	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-41-7	Beryllium	6.27	mg/kg		0.0214	0.107	0.107	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-43-9	Cadmium	150	ug/Kg	J	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-70-2	Calcium J+,16b	1250000	ug/Kg	*N	8670	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-47-3	Chromium J,110a	8410	ug/Kg	*	163	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-48-4	Cobalt	2200	ug/Kg	*	163	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-50-8	Copper J,110a	64400	ug/Kg	*	325	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-89-6	Iron	8570000	ug/Kg	*	8670	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-92-1	Lead J,110a	23000	ug/Kg	*	271	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-95-4	Magnesium J+,16b	852000	ug/Kg	*N	9210	32500	32500	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-96-5	Manganese J+,16b	220000	ug/Kg	*N	217	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-97-6	Mercury	7.66	ug/kg	J	4.69	13.8	13.8	1	AV	JXL1	03/12/10 12:27	031210S1-5	958728
7440-02-0	Nickel	7.76	mg/kg		0.107	0.428	0.428	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-09-7	Potassium J+,16b	744000	ug/Kg	*N	6940	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.07	mg/kg	UN	0.536	1.07	1.07	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-22-4	Silver	208	ug/Kg	J	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-23-5	Sodium U,14d	83600	ug/Kg		7590	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-28-0	Thallium	0.138	mg/kg	J	0.0643	0.214	0.214	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-61-1	Uranium	33.7	mg/kg	*N	0.0167	0.0505	0.0505	2	MS	PRB	04/15/10 19:44	100415-2	969760
7440-62-2	Vanadium	10500	ug/Kg	*	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-66-6	Zinc J+,16b	34800	ug/Kg	*N	358	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.589	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.596	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.555	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.506	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907003

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8026

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	10200000	ug/Kg	*	6580	19400	19400	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-36-0	Antimony UJ,112a	968	ug/Kg	U	319	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-38-2	Arsenic	2.15	mg/kg		0.186	0.93	0.93	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-39-3	Barium	129000	ug/Kg	*	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-41-7	Beryllium	1.28	mg/kg		0.0186	0.093	0.093	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-43-9	Cadmium	102	ug/Kg	J	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-70-2	Calcium J+,16b	2260000	ug/Kg	*N	7740	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-47-3	Chromium J,110a	15300	ug/Kg	*	145	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-48-4	Cobalt	4280	ug/Kg	*	145	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-50-8	Copper J,110a	9080	ug/Kg	*	290	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-89-6	Iron	13400000	ug/Kg	*	7740	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-92-1	Lead J,110a	9880	ug/Kg	*	242	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-95-4	Magnesium J+,16b	2090000	ug/Kg	*N	8230	29000	29000	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-96-5	Manganese J+,16b	323000	ug/Kg	*N	194	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-97-6	Mercury	23.2	ug/kg		3.77	11.1	11.1	1	AV	JXLI	03/12/10 12:29	031210S1-5	958728
7440-02-0	Nickel	11	mg/kg		0.093	0.372	0.372	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-09-7	Potassium J+,16b	1760000	ug/Kg	*N	6190	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7782-49-2	Selenium UJ,16a	0.930	mg/kg	UN	0.465	0.93	0.93	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-22-4	Silver	484	ug/Kg	U	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-23-5	Sodium	348000	ug/Kg		6780	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-28-0	Thallium	0.178	mg/kg	J	0.0558	0.186	0.186	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-61-1	Uranium J,14a	0.776	mg/kg	*N	0.0132	0.0401	0.0401	2	MS	PRB	04/15/10 19:46	100415-2	969760
7440-62-2	Vanadium	20900	ug/Kg	*	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-66-6	Zinc J+,16b	40200	ug/Kg	*N	319	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.568	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.591	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.595	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.548	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907004

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8017

LEVEL: Low

DATE RECEIVED 24-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,110a	4340000	ug/Kg	*	8310	24400	24400	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-36-0	Antimony U,14b	560	ug/Kg	J	403	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-38-2	Arsenic	1.58	mg/kg		0.241	1.2	1.2	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-39-3	Barium	54200	ug/Kg	*	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-41-7	Beryllium	4.41	mg/kg		0.0241	0.12	0.12	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-43-9	Cadmium	193	ug/Kg	J	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-70-2	Calcium J+,16b	1770000	ug/Kg	*N	9780	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-47-3	Chromium J,14a	6310	ug/Kg	*	183	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-48-4	Cobalt	2430	ug/Kg	*	183	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-50-8	Copper J,110a	50200	ug/Kg	*	367	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-89-6	Iron	8570000	ug/Kg	*	9780	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-92-1	Lead J,110a	34800	ug/Kg	*	306	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-95-4	Magnesium J+,16b	893000	ug/Kg	*N	10400	36700	36700	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-96-5	Manganese J+,16b	252000	ug/Kg	*N	244	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-97-6	Mercury	5.58	ug/kg	J	4.57	13.5	13.5	1	AV	JXL	03/12/10 12:31	031210S1-5	958728
7440-02-0	Nickel	5.53	mg/kg		0.12	0.482	0.482	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-09-7	Potassium J+,16b	726000	ug/Kg	*N	7820	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7782-49-2	Selenium U,16a	1.2	mg/kg	UN	0.602	1.2	1.2	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-22-4	Silver	290	ug/Kg	J	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-23-5	Sodium U,14d	76300	ug/Kg		8550	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-28-0	Thallium	0.241	mg/kg	U	0.0723	0.241	0.241	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-61-1	Uranium	126	mg/kg	*N	0.0175	0.053	0.053	2	MS	PRB	04/15/10 19:48	100415-2	969760
7440-62-2	Vanadium	11500	ug/Kg	*	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-66-6	Zinc J+,16b	34500	ug/Kg	*N	403	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.545	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.553	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.594	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.503	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907005

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8025

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 68

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	12400000	ug/Kg	*	8910	26200	26200	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-36-0	Antimony UJ,112a	1310	ug/Kg	U	432	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-38-2	Arsenic	1.62	mg/kg		0.275	1.37	1.37	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-39-3	Barium	106000	ug/Kg	*	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-41-7	Beryllium	0.796	mg/kg		0.0275	0.137	0.137	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-43-9	Cadmium	223	ug/Kg	J	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-70-2	Calcium J+,16b	2360000	ug/Kg	*N	10500	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-47-3	Chromium J,110a	24400	ug/Kg	*	196	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-48-4	Cobalt	7130	ug/Kg	*	196	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-50-8	Copper J,110a	14600	ug/Kg	*	393	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-89-6	Iron	19700000	ug/Kg	*	10500	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-92-1	Lead J,110a	19900	ug/Kg	*	327	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-95-4	Magnesium J+,16b	2850000	ug/Kg	*N	11100	39300	39300	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-96-5	Manganese J+,16b	504000	ug/Kg	*N	262	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-97-6	Mercury	11.3	ug/kg	J	5.27	15.5	15.5	1	AV	JXL1	03/12/10 12:33	031210S1-5	958728
7440-02-0	Nickel	6.72	mg/kg		0.137	0.549	0.549	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-09-7	Potassium J+,16b	2510000	ug/Kg	*N	8380	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.37	mg/kg	UN	0.686	1.37	1.37	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-22-4	Silver	655	ug/Kg	U	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-23-5	Sodium J,14a	191000	ug/Kg		9170	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-28-0	Thallium	0.106	mg/kg	J	0.0824	0.275	0.275	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-61-1	Uranium	2.09	mg/kg	*N	0.0167	0.0505	0.0505	2	MS	PRB	04/15/10 19:55	100415-2	969760
7440-62-2	Vanadium	34900	ug/Kg	*	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-66-6	Zinc J+,16b	66500	ug/Kg	*N	432	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.563	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.537	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.571	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.584	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907006

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8022

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 96

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	2510000	ug/Kg	*	6420	18900	18900	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-36-0	Antimony UJ,112a	944	ug/Kg	U	311	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-38-2	Arsenic	0.955	mg/kg		0.187	0.937	0.937	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-39-3	Barium	8660	ug/Kg	*	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-41-7	Beryllium	0.429	mg/kg		0.0187	0.0937	0.0937	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-43-9	Cadmium	472	ug/Kg	U	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-70-2	Calcium J+,16b	279000	ug/Kg	*N	7550	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-47-3	Chromium J,110a	9690	ug/Kg	*	142	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-48-4	Cobalt	637	ug/Kg	*	142	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-50-8	Copper J,110a	3890	ug/Kg	*	283	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-89-6	Iron	9130000	ug/Kg	*	7550	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-92-1	Lead J,110a	6680	ug/Kg	*	236	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-95-4	Magnesium J+,16b	367000	ug/Kg	*N	8020	28300	28300	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-96-5	Manganese J+,16b	192000	ug/Kg	*N	189	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-97-6	Mercury	6.28	ug/kg	J	3.99	11.7	11.7	1	AV	JXL1	03/12/10 12:34	031210S1-5	958728
7440-02-0	Nickel	2.22	mg/kg		0.0937	0.375	0.375	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-09-7	Potassium J+,16b	562000	ug/Kg	*N	6040	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7782-49-2	Selenium UJ,16a	0.937	mg/kg	UN	0.469	0.937	0.937	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-22-4	Silver	472	ug/Kg	U	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-23-5	Sodium	415000	ug/Kg		6610	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-28-0	Thallium	0.187	mg/kg	U	0.0562	0.187	0.187	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-61-1	Uranium J,14a	0.893	mg/kg	*N	0.0131	0.0398	0.0398	2	MS	PRB	04/15/10 19:57	100415-2	969760
7440-62-2	Vanadium	4480	ug/Kg	*	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-66-6	Zinc J+,16b	46400	ug/Kg	*N	311	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.552	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.556	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.533	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.524	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907007

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8014

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 94

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	4900000	ug/Kg	*	6480	19100	19100	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-36-0	Antimony UJ,112a	953	ug/Kg	U	314	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-38-2	Arsenic	1.65	mg/kg		0.192	0.958	0.958	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-39-3	Barium	50500	ug/Kg	*	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-41-7	Beryllium	1.56	mg/kg		0.0192	0.0958	0.0958	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-43-9	Cadmium	477	ug/Kg	U	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-70-2	Calcium J+,16b	1690000	ug/Kg	*N	7620	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-47-3	Chromium J,14a	6550	ug/Kg	*	143	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-48-4	Cobalt	1850	ug/Kg	*	143	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-50-8	Copper J,110a	6830	ug/Kg	*	286	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-89-6	Iron	11500000	ug/Kg	*	7620	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-92-1	Lead J,110a	9610	ug/Kg	*	238	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-95-4	Magnesium J+,16b	915000	ug/Kg	*N	8100	28600	28600	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-96-5	Manganese J+,16b	282000	ug/Kg	*N	191	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-97-6	Mercury	9.71	ug/kg	J	4.1	12.1	12.1	1	AV	JXL1	03/12/10 12:36	031210S1-5	958728
7440-02-0	Nickel	6.39	mg/kg		0.0958	0.383	0.383	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-09-7	Potassium J+,16b	728000	ug/Kg	*N	6100	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7782-49-2	Selenium U,14b	0.728	mg/kg	JN	0.479	0.958	0.958	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-22-4	Silver	477	ug/Kg	U	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-23-5	Sodium U,14d	97900	ug/Kg		6670	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-28-0	Thallium	0.0834	mg/kg	J	0.0575	0.192	0.192	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-61-1	Uranium J,14a	1.02	mg/kg	*N	0.0121	0.0368	0.0368	2	MS	PRB	04/15/10 19:59	100415-2	969760
7440-62-2	Vanadium	10700	ug/Kg	*	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-66-6	Zinc J+,16b	52300	ug/Kg	*N	314	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.558	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.555	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.529	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.578	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907008

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8023

LEVEL: Low

DATE RECEIVED 24-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,110a	7670000	ug/Kg	*	7540	22200	22200	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-36-0	Antimony UJ,112a	1110	ug/Kg	U	366	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-38-2	Arsenic	1.89	mg/kg		0.233	1.17	1.17	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-39-3	Barium	48400	ug/Kg	*	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-41-7	Beryllium	0.621	mg/kg		0.0233	0.117	0.117	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-43-9	Cadmium	555	ug/Kg	U	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-70-2	Calcium J+,16b	1720000	ug/Kg	*N	8870	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-47-3	Chromium J,110a	25500	ug/Kg	*	166	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-48-4	Cobalt	3930	ug/Kg	*	166	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-50-8	Copper J,110a	7070	ug/Kg	*	333	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-89-6	Iron	13900000	ug/Kg	*	8870	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-92-1	Lead J,110a	10500	ug/Kg	*	277	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-95-4	Magnesium J+,16b	1400000	ug/Kg	*N	9430	33300	33300	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-96-5	Manganese J+,16b	269000	ug/Kg	*N	222	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-97-6	Mercury	18.9	ug/kg		4.9	14.4	14.4	1	AV	JXL1	03/12/10 12:38	031210S1-5	958728
7440-02-0	Nickel	4.7	mg/kg		0.117	0.467	0.467	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-09-7	Potassium J+,16b	1200000	ug/Kg	*N	7100	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.17	mg/kg	UN	0.583	1.17	1.17	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-22-4	Silver	133	ug/Kg	J	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-23-5	Sodium U,14d	116000	ug/Kg		7770	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-28-0	Thallium	0.0887	mg/kg	J	0.07	0.233	0.233	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-61-1	Uranium	1.67	mg/kg	*N	0.0154	0.0466	0.0466	2	MS	PRB	04/15/10 20:02	100415-2	969760
7440-62-2	Vanadium	18700	ug/Kg	*	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-66-6	Zinc J+,16b	46700	ug/Kg	*N	366	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.549	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.522	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.507	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.523	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907009

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8020

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 93.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	5900000	ug/Kg	*	6820	20100	20100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-36-0	Antimony UJ,112a	1000	ug/Kg	U	331	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-38-2	Arsenic	1.23	mg/kg		0.202	1.01	1.01	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-39-3	Barium	31300	ug/Kg	*	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-41-7	Beryllium	0.80	mg/kg		0.0202	0.101	0.101	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-43-9	Cadmium	501	ug/Kg	U	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-70-2	Calcium J+,16b	1340000	ug/Kg	*N	8020	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-47-3	Chromium J,14a	7200	ug/Kg	*	150	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-48-4	Cobalt	1260	ug/Kg	*	150	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-50-8	Copper J,110a	5200	ug/Kg	*	301	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-89-6	Iron	11200000	ug/Kg	*	8020	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-92-1	Lead J,110a	5900	ug/Kg	*	251	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-95-4	Magnesium J+,16b	1100000	ug/Kg	*N	8530	30100	30100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-96-5	Manganese J+,16b	157000	ug/Kg	*N	201	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-97-6	Mercury	19.5	ug/kg		4.14	12.2	12.2	1	AV	JXL1	03/12/10 12:39	031210S1-5	958728
7440-02-0	Nickel	4.29	mg/kg		0.101	0.403	0.403	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-09-7	Potassium J+,16b	658000	ug/Kg	*N	6420	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.01	mg/kg	UN	0.504	1.01	1.01	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-22-4	Silver	501	ug/Kg	U	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-23-5	Sodium U,14d	84700	ug/Kg		7020	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-28-0	Thallium	0.202	mg/kg	U	0.0605	0.202	0.202	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-61-1	Uranium J,14a	0.438	mg/kg	*N	0.0137	0.0416	0.0416	2	MS	PRB	04/15/10 20:04	100415-2	969760
7440-62-2	Vanadium	10600	ug/Kg	*	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-66-6	Zinc J+,16b	43000	ug/Kg	*N	331	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol	Units	Final wt/vol	Units	Date	Analyst
958057	958056	SW846 3050B	0.531	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.525	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.512	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907010

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8018

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	5180000	ug/Kg	*	7180	21100	21100	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-36-0	Antimony UJ,112a	1060	ug/Kg	U	349	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-38-2	Arsenic	2.79	mg/kg		0.213	1.07	1.07	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-39-3	Barium	50800	ug/Kg	*	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-41-7	Beryllium	1.35	mg/kg		0.0213	0.107	0.107	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-43-9	Cadmium	528	ug/Kg	U	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-70-2	Calcium J+,16b	1780000	ug/Kg	*N	8450	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-47-3	Chromium J,14a	6490	ug/Kg	*	158	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-48-4	Cobalt	2670	ug/Kg	*	158	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-50-8	Copper J,110a	8720	ug/Kg	*	317	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-89-6	Iron	11100000	ug/Kg	*	8450	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-92-1	Lead J,110a	9150	ug/Kg	*	264	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-95-4	Magnesium J+,16b	969000	ug/Kg	*N	8980	31700	31700	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-96-5	Manganese J+,16b	295000	ug/Kg	*N	211	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-97-6	Mercury	11.1	ug/kg	J	4.65	13.7	13.7	1	AV	JXL1	03/12/10 12:41	031210S1-5	958728
7440-02-0	Nickel	7.23	mg/kg		0.107	0.426	0.426	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-09-7	Potassium J+,16b	816000	ug/Kg	*N	6760	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.07	mg/kg	UN	0.533	1.07	1.07	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-22-4	Silver	131	ug/Kg	J	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-23-5	Sodium U,14d	68500	ug/Kg		7390	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-28-0	Thallium	0.116	mg/kg	J	0.0639	0.213	0.213	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-61-1	Uranium	189	mg/kg	*N	0.0164	0.0497	0.0497	2	MS	PRB	04/15/10 20:06	100415-2	969760
7440-62-2	Vanadium	13200	ug/Kg	*	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-66-6	Zinc J+,16b	42500	ug/Kg	*N	349	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.598	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.593	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.554	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.508	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907011

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8015

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 63

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	5220000	ug/Kg	*	9910	29200	29200	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-36-0	Antimony UJ,112a	1460	ug/Kg	U	481	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-38-2	Arsenic	1.92	mg/kg		0.291	1.45	1.45	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-39-3	Barium	64500	ug/Kg	*	146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-41-7	Beryllium	1.68	mg/kg		0.0291	0.145	0.145	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-43-9	Cadmium	949	ug/Kg		146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-70-2	Calcium J+,16b	1720000	ug/Kg	*N	11700	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-47-3	Chromium J,110a	8580	ug/Kg	*	219	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-48-4	Cobalt	2760	ug/Kg	*	219	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-50-8	Copper J,110a	91400	ug/Kg	*	437	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-89-6	Iron	10200000	ug/Kg	*	11700	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-92-1	Lead J,110a	27600	ug/Kg	*	365	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-95-4	Magnesium J+,16b	982000	ug/Kg	*N	12400	43700	43700	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-96-5	Manganese J+,16b	372000	ug/Kg	*N	292	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-97-6	Mercury	14.5	ug/kg	J	5.99	17.6	17.6	1	AV	JXL1	03/12/10 12:43	031210S1-5	958728
7440-02-0	Nickel	6.33	mg/kg		0.145	0.581	0.581	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-09-7	Potassium J+,16b	928000	ug/Kg	*N	9330	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.45	mg/kg	UN	0.726	1.45	1.45	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-22-4	Silver	729	ug/Kg	U	146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-23-5	Sodium U,14d	86700	ug/Kg		10200	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-28-0	Thallium	0.0886	mg/kg	J	0.0872	0.291	0.291	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-61-1	Uranium	32.6	mg/kg	*N	0.0194	0.0588	0.0588	2	MS	PRB	04/15/10 20:08	100415-2	969760
7440-62-2	Vanadium	12300	ug/Kg	*	146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-66-6	Zinc J+,16b	48800	ug/Kg	*N	481	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.547	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.549	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.543	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.543	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907012

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8021

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	3980000	ug/Kg	*	7500	22100	22100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-36-0	Antimony UJ,112a	1100	ug/Kg	U	364	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-38-2	Arsenic	0.826	mg/kg	J	0.202	1.01	1.01	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-39-3	Barium	37200	ug/Kg	*	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-41-7	Beryllium	0.496	mg/kg		0.0202	0.101	0.101	2	MS	RMJ	03/24/10 22:21	100324-4	958059
7440-43-9	Cadmium	401	ug/Kg	J	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-70-2	Calcium J+,16b	1760000	ug/Kg	*N	8820	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-47-3	Chromium J,110a	9090	ug/Kg	*	165	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-48-4	Cobalt	1280	ug/Kg	*	165	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-50-8	Copper J,110a	16300	ug/Kg	*	331	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-89-6	Iron	9790000	ug/Kg	*	8820	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-92-1	Lead J,110a	15500	ug/Kg	*	276	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-95-4	Magnesium J+,16b	700000	ug/Kg	*N	9380	33100	33100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-96-5	Manganese J+,16b	243000	ug/Kg	*N	221	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-97-6	Mercury	17	ug/kg		4.01	11.8	11.8	1	AV	JXL1	03/12/10 12:48	031210S1-5	958728
7440-02-0	Nickel	2.67	mg/kg		0.101	0.404	0.404	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-09-7	Potassium J+,16b	728000	ug/Kg	*N	7060	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.01	mg/kg	UN	0.506	1.01	1.01	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-22-4	Silver	141	ug/Kg	J	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-23-5	Sodium J,14a	204000	ug/Kg		7720	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-28-0	Thallium	0.202	mg/kg	U	0.0607	0.202	0.202	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-61-1	Uranium	11.3	mg/kg	*N	0.0138	0.0417	0.0417	2	MS	PRB	04/15/10 20:10	100415-2	969760
7440-62-2	Vanadium	7440	ug/Kg	*	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-66-6	Zinc J+,16b	43100	ug/Kg	*N	364	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.576	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.593	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.559	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907013

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8024

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	8910000	ug/Kg	*	7400	21800	21800	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-36-0	Antimony UJ,112a	1090	ug/Kg	U	359	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-38-2	Arsenic	4.11	mg/kg		0.213	1.06	1.06	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-39-3	Barium	344000	ug/Kg	*	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-41-7	Beryllium	1.9	mg/kg		0.0213	0.106	0.106	2	MS	RMJ	03/24/10 22:24	100324-4	958059
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-70-2	Calcium J+,16b	2080000	ug/Kg	*N	8710	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-47-3	Chromium J,110a	35200	ug/Kg	*	163	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-48-4	Cobalt	3390	ug/Kg	*	163	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-50-8	Copper J,110a	7480	ug/Kg	*	327	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-89-6	Iron	12300000	ug/Kg	*	8710	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-92-1	Lead J,110a	9890	ug/Kg	*	272	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-95-4	Magnesium J+,16b	1790000	ug/Kg	*N	9260	32700	32700	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-96-5	Manganese J+,16b	225000	ug/Kg	*N	218	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-97-6	Mercury	31.7	ug/kg		4.28	12.6	12.6	1	AV	JXL1	03/12/10 12:49	031210S1-5	958728
7440-02-0	Nickel	14.9	mg/kg		0.106	0.425	0.425	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-09-7	Potassium J+,16b	1180000	ug/Kg	*N	6970	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.06	mg/kg	UN	0.531	1.06	1.06	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-22-4	Silver	544	ug/Kg	U	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-23-5	Sodium U,14d	122000	ug/Kg		7620	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-28-0	Thallium	0.197	mg/kg	J	0.0638	0.213	0.213	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-61-1	Uranium J,14a	0.783	mg/kg	*N	0.0135	0.041	0.041	2	MS	PRB	04/15/10 20:13	100415-2	969760
7440-62-2	Vanadium	17600	ug/Kg	*	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-66-6	Zinc J+,16b	35300	ug/Kg	*N	359	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.541	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.548	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.561	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907014

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8016

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 90.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	4380000	ug/Kg	*	6340	18600	18600	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-36-0	Antimony UJ,112a	932	ug/Kg	U	307	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-38-2	Arsenic	1.52	mg/kg		0.219	1.09	1.09	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-39-3	Barium	32100	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-41-7	Beryllium	1.01	mg/kg		0.0219	0.109	0.109	2	MS	RMJ	03/24/10 22:26	100324-4	958059
7440-43-9	Cadmium	466	ug/Kg	U	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-70-2	Calcium J+,16b	999000	ug/Kg	*N	7450	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-47-3	Chromium J,110a	14800	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-48-4	Cobalt	1490	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-50-8	Copper J,110a	5170	ug/Kg	*	280	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-89-6	Iron	10400000	ug/Kg	*	7450	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-92-1	Lead J,110a	7470	ug/Kg	*	233	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-95-4	Magnesium J+,16b	773000	ug/Kg	*N	7920	28000	28000	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-96-5	Manganese J+,16b	282000	ug/Kg	*N	186	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-97-6	Mercury	18.3	ug/kg		4.27	12.6	12.6	1	AV	JXLI	03/12/10 12:51	031210S1-5	958728
7440-02-0	Nickel	6.89	mg/kg		0.109	0.438	0.438	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-09-7	Potassium J+,16b	615000	ug/Kg	*N	5960	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.09	mg/kg	UN	0.547	1.09	1.09	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-22-4	Silver	162	ug/Kg	J	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-23-5	Sodium J,14a	124000	ug/Kg		6520	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-28-0	Thallium	0.079	mg/kg	J	0.0657	0.219	0.219	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-61-1	Uranium J,14a	0.881	mg/kg	*N	0.0123	0.0373	0.0373	2	MS	PRB	04/15/10 20:19	100415-2	969760
7440-62-2	Vanadium	11100	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-66-6	Zinc J+,16b	44700	ug/Kg	*N	307	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.592	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.504	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.527	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.591	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907015

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8065

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 90.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J,110a	4920000	ug/Kg	*	6340	18600	18600	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-36-0	Antimony UJ,112a	932	ug/Kg	U	308	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-38-2	Arsenic	1.48	mg/kg		0.219	1.1	1.1	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-39-3	Barium	36800	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-41-7	Beryllium	1.13	mg/kg		0.0219	0.11	0.11	2	MS	RMJ	03/24/10 22:29	100324-4	958059
7440-43-9	Cadmium	466	ug/Kg	U	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-70-2	Calcium J+,16b	1460000	ug/Kg	*N	7460	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-47-3	Chromium J,14a	5790	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-48-4	Cobalt	1300	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-50-8	Copper J,110a	8600	ug/Kg	*	280	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-89-6	Iron	9300000	ug/Kg	*	7460	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-92-1	Lead J,110a	8020	ug/Kg	*	233	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-95-4	Magnesium J+,16b	923000	ug/Kg	*N	7920	28000	28000	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-96-5	Mangancsc J+,16b	282000	ug/Kg	*N	186	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-97-6	Mercury	12.9	ug/kg	J	4.49	13.2	13.2	1	AV	JXL1	03/12/10 12:53	031210S1-5	958728
7440-02-0	Nickel	5.09	mg/kg		0.11	0.438	0.438	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-09-7	Potassium J+,16b	725000	ug/Kg	*N	5960	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.1	mg/kg	UN	0.548	1.1	1.1	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-22-4	Silver	137	ug/Kg	J	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-23-5	Sodium U,14d	72100	ug/Kg		6520	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-28-0	Thallium	0.219	mg/kg	U	0.0657	0.219	0.219	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-61-1	Uranium	2.79	mg/kg	*N	0.0135	0.041	0.041	2	MS	PRB	04/15/10 20:22	100415-2	969760
7440-62-2	Vanadium	8740	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-66-6	Zinc J+,16b	44700	ug/Kg	*N	308	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.591	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.503	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.5	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.537	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907016

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8066

LEVEL: Low

DATE RECEIVED 24-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,110a	12300000	ug/Kg	*	7930	23300	23300	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-36-0	Antimony UJ,112a	1170	ug/Kg	U	385	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-38-2	Arsenic	2.05	mg/kg		0.235	1.17	1.17	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-39-3	Barium	101000	ug/Kg	*	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-41-7	Beryllium	1.16	mg/kg		0.0235	0.117	0.117	2	MS	RMJ	03/24/10 22:31	100324-4	958059
7440-43-9	Cadmium	583	ug/Kg	U	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-70-2	Calcium J+,16b	3030000	ug/Kg	*N	9330	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-47-3	Chromium J,110a	28400	ug/Kg	*	175	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-48-4	Cobalt	6380	ug/Kg	*	175	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-50-8	Copper J,110a	16000	ug/Kg	*	350	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-89-6	Iron	18800000	ug/Kg	*	9330	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-92-1	Lead J,110a	15500	ug/Kg	*	292	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-95-4	Magnesium J+,16b	2430000	ug/Kg	*N	9910	35000	35000	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-96-5	Manganese J+,16b	454000	ug/Kg	*N	233	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-97-6	Mercury	21.1	ug/kg		4.22	12.4	12.4	1	AV	JXL	03/12/10 12:55	031210S1-5	958728
7440-02-0	Nickel	9.49	mg/kg		0.117	0.469	0.469	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-09-7	Potassium J+,16b	2200000	ug/Kg	*N	7460	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.17	mg/kg	UN	0.586	1.17	1.17	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-22-4	Silver	277	ug/Kg	J	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-23-5	Sodium J,14a	273000	ug/Kg		8160	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-28-0	Thallium	0.147	mg/kg	J	0.0704	0.235	0.235	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-61-1	Uranium	1.4	mg/kg	*N	0.0162	0.049	0.049	2	MS	PRB	04/15/10 20:24	100415-2	969760
7440-62-2	Vanadium	30100	ug/Kg	*	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-66-6	Zinc J+,16b	54400	ug/Kg	*N	385	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.531	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.599	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.506	g	50	mL	03/29/10	LYH1

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907017

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8033

LEVEL: Low

DATE RECEIVED 24-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,110a	5810000	ug/Kg	*	7910	23300	23300	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-36-0	Antimony UJ,112a	1160	ug/Kg	U	384	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-38-2	Arsenic	2.82	mg/kg		0.253	1.26	1.26	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-39-3	Barium	43800	ug/Kg	*	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-41-7	Beryllium	0.932	mg/kg		0.0253	0.126	0.126	2	MS	RMJ	03/24/10 22:34	100324-4	958059
7440-43-9	Cadmium	582	ug/Kg	U	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-70-2	Calcium J+,16b	1820000	ug/Kg	*N	9300	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-47-3	Chromium J,14a	7630	ug/Kg	*	174	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-48-4	Cobalt	1770	ug/Kg	*	174	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-50-8	Copper J,110a	7310	ug/Kg	*	349	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-89-6	Iron	10900000	ug/Kg	*	9300	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-92-1	Lead J,110a	7840	ug/Kg	*	291	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-95-4	Magnesium J+,16b	1040000	ug/Kg	*N	9890	34900	34900	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-96-5	Manganese J+,16b	151000	ug/Kg	*N	233	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-97-6	Mercury	16.6	ug/kg		4.92	14.5	14.5	1	AV	JXL1	03/12/10 12:56	031210S1-5	958728
7440-02-0	Nickel	6.54	mg/kg		0.126	0.505	0.505	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-09-7	Potassium J+,16b	785000	ug/Kg	*N	7440	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7782-49-2	Selenium UJ,16a	1.26	mg/kg	UN	0.632	1.26	1.26	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-22-4	Silver	207	ug/Kg	J	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-23-5	Sodium U,14d	99700	ug/Kg		8140	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-28-0	Thallium	0.0849	mg/kg	J	0.0758	0.253	0.253	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-61-1	Uranium	13.9	mg/kg	*N	0.0151	0.0457	0.0457	2	MS	PRB	04/15/10 20:26	100415-2	969760
7440-62-2	Vanadium	11800	ug/Kg	*	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-66-6	Zinc J+,16b	39700	ug/Kg	*N	384	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.568	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.523	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.548	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.578	g	50	mL	03/29/10	LYHI

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247908001

BASIS: As Received

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8089

LEVEL: Low

DATE RECEIVED 24-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	03/22/10 17:44	032210-1	958066
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	PRB	04/21/10 21:00	100421-5	958068
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-70-2	Calcium	64.6	ug/L	J	30	200	200	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-50-8	Copper	4.22	ug/L	J	3	10	10	1	P	HSC	03/22/10 17:44	032210-1	958066
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/22/10 17:44	032210-1	958066
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	PRB	04/21/10 16:59	100421-2	958068
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/22/10 17:44	032210-1	958066
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	PRB	04/21/10 16:59	100421-2	958068
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/03/10 11:42	030310W2-6	958777
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-09-7	Potassium	200	ug/L		50	150	150	1	P	HSC	03/22/10 17:44	032210-1	958066
7782-49-2	Selenium U,14	6.72	ug/L	J	5	30	30	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-23-5	Sodium	242	ug/L	J	100	300	300	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-28-0	Thallium U,14b	0.477	ug/L	J	0.3	1	1	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-62-2	Vanadium	1.08	ug/L	J	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/22/10 17:44	032210-1	958066

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958066	958065	SW846 3005A	50	mL	50	mL	03/01/10	BXA1
958068	958067	SW846 3005A	50	mL	50	mL	03/02/10	FGA
958777	958775	SW846 7470A Prep	20	mL	20	mL	03/02/10	TXB3

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247908002

BASIS: As Received

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8086

LEVEL: Low

DATE RECEIVED 24-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	03/22/10 17:51	032210-1	958066
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	PRB	04/21/10 21:02	100421-5	958068
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-70-2	Calcium	76.4	ug/L	J	50	200	200	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-50-8	Copper	4.48	ug/L	J	3	10	10	1	P	HSC	03/22/10 17:51	032210-1	958066
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/22/10 17:51	032210-1	958066
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	PRB	04/21/10 17:02	100421-2	958068
7439-95-4	Magnesium	98	ug/L	J	85	300	300	1	P	HSC	03/22/10 17:51	032210-1	958066
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	PRB	04/21/10 17:02	100421-2	958068
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/03/10 11:44	030310W2-6	958777
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-09-7	Potassium	165	ug/L		50	150	150	1	P	HSC	03/22/10 17:51	032210-1	958066
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-23-5	Sodium	237	ug/L	J	100	300	300	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-62-2	Vanadium	1.14	ug/L	J	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/22/10 17:51	032210-1	958066

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958066	958065	SW846 3005A	50	mL	50	mL	03/01/10	BXA1
958068	958067	SW846 3005A	50	mL	50	mL	03/02/10	FGA
958777	958775	SW846 7470A Prep	20	mL	20	mL	03/02/10	TXB3

SEB
4/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247908003

BASIS: As Received

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8088

LEVEL: Low

DATE RECEIVED 24-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	03/22/10 17:57	032210-1	958066
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	PRB	04/21/10 21:04	100421-5	958068
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-70-2	Calcium	65	ug/L	J	50	200	200	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-50-8	Copper	7.45	ug/L	J	3	10	10	1	P	HSC	03/22/10 17:57	032210-1	958066
7439-89-6	Iron	76.1	ug/L	J	30	100	100	1	P	HSC	03/22/10 17:57	032210-1	958066
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	PRB	04/21/10 17:05	100421-2	958068
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/22/10 17:57	032210-1	958066
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	PRB	04/21/10 17:05	100421-2	958068
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/03/10 11:46	030310W2-6	958777
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-09-7	Potassium	157	ug/L		50	150	150	1	P	HSC	03/22/10 17:57	032210-1	958066
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-23-5	Sodium	216	ug/L	J	100	300	300	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-61-1	Uranium	0.109	ug/L	J	0.05	0.2	0.2	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-66-6	Zinc U,14	6.35	ug/L	J	3.3	10	10	1	P	HSC	03/22/10 17:57	032210-1	958066

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958066	958065	SW846 3005A	50	mL	50	mL	03/01/10	BXA1
958068	958067	SW846 3005A	50	mL	50	mL	03/02/10	FGA
958777	958775	SW846 7470A Prep	20	mL	20	mL	03/02/10	TXB3

SEB
4/30/10

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2013 VALIDATION DATE: 05/01/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

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 parent QC samples were from other LANL RNs. No sample results were qualified.

Reviewed by: Mary Donovan Level: 1 Date: 05/03/10


VALIDATOR'S SIGNATURE: Susan E. Ball DATE: 05/01/10

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

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

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

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

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

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

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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 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8019
Sample ID: 247907001
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 16.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.2	277	ug/kg	1	AXC2	03/04/10	1448	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8013
Sample ID: 247907002
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 21.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	76.2	280	ug/kg	1	AXC2	03/04/10	1452	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8026
Sample ID: 247907003
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 9.06%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.8	245	ug/kg	1	AXC2	03/04/10	1502	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8017
Sample ID: 247907004
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 24.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	83.9	308	ug/kg	1	AXC2	03/04/10	1456	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8025
Sample ID: 247907005
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 32.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	98.3	361	ug/kg	1	AXC2	03/04/10	1504	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8022
Sample ID: 247907006
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 4.04%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.8	246	ug/kg	1	AXC2	03/04/10	1505	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8014
Sample ID: 247907007
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 5.98%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	64.6	237	ug/kg	1	AXC2	03/04/10	1506	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8023
Sample ID: 247907008
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 17.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.3	277	ug/kg	1	AXC2	03/04/10	1507	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8020
Sample ID: 247907009
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 6.12%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.4	266	ug/kg	1	AXC2	03/04/10	1508	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8018
Sample ID: 247907010
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 20.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	79.5	292	ug/kg	1	AXC2	03/04/10	1509	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8015
Sample ID: 247907011
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 37.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	108	399	ug/kg	1	AXC2	03/04/10	1513	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8021
Sample ID: 247907012
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 14.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	73.3	270	ug/kg	1	AXC2	03/04/10	1514	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8024
Sample ID: 247907013
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 13%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	73.8	271	ug/kg	1	AXC2	03/04/10	1515	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8016
Sample ID: 247907014
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 9.36%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	67.0	246	ug/kg	1	AXC2	03/04/10	1516	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8065
Sample ID: 247907015
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 9.23%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	68.1	250	ug/kg	1	AXC2	03/04/10	1517	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8066
Sample ID: 247907016
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 19.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	81.0	298	ug/kg	1	AXC2	03/04/10	1518	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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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 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8033
Sample ID: 247907017
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 24.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	---------	------	------	-------	--------

Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	77.5	285	ug/kg	1	AXC2	03/04/10	1518	957580	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

SEB
5/1/10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013-1

Client Sample ID: RE15-10-8089
Sample ID: 247908001
Matrix: W
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1527	960499	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

SEB
5/1/10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013-1

Client Sample ID: RE15-10-8086
Sample ID: 247908002
Matrix: W
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1528	960499	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

SEB
5/1/10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013-1

Client Sample ID: RE15-10-8088
Sample ID: 247908003
Matrix: W
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1529	960499	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2013

LOS ALAMOS

REQUEST NUMBER: 10-2013

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/25/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247907, 247908/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8019	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8013	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8026	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8017	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8025	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8022	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8014	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8023	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8020	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8018	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8015	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8021	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8024	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8016	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8065	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8086	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8033	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8089	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8089	1	POLY	SW-846.6850	Ice	W
RE15-10-8089	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8086	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8086	1	POLY	SW-846.6850	Ice	W
RE15-10-8086	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8088	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8088	1	POLY	SW-846.6850	Ice	W
RE15-10-8088	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

2/23/10 1400

Patricia

Printed Name

Signature

Dover-Dent P.H. Dent 2/24/10 08:50

Printed Name

Signature

Printed Name

Signature

**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: 10-2013
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/23/2010
TURNAROUND/REPORT DUE: 3/26/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8020	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	

Page 2 of 4
REQUEST NUMBER: 10-2013

Tuesday, February 23, 2010

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
		1	RE15-10-8066	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
	SW-846:6850	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	

Tuesday, February 23, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-6850	1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
	SW-846-7470A	1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
	SW-846-7471A	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
	SW-846-8012A	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	

Tuesday, February 23, 2010

REQUEST NUMBER: 10-2013

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-9012A	1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
		1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	

Final Page of REQUEST NUMBER 10-2013



March 02, 2010

www.gel.com

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

Re: LANL ER Project
Work Orders: 247907 247908
SDG: 10-2013

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 24, 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: 10-2013
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247907 and 247908
SDG: 10-2013

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Standards	810
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General Chemistry Analysis	1064
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Instrument QC Data Summary	1092
Cyanide, Total	1094
Miscellaneous	1105
General Chemistry Analysis	1107
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Instrument QC Data Summary	1121
Cyanide, Total	1123

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247907 and 247908
SDG # : 10-2013**

March 02, 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 24, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

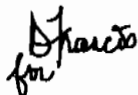
<u>Laboratory ID</u>	<u>Client ID</u>
247907001	RE15-10-8019
247907002	RE15-10-8013
247907003	RE15-10-8026
247907004	RE15-10-8017
247907005	RE15-10-8025
247907006	RE15-10-8022
247907007	RE15-10-8014
247907008	RE15-10-8023
247907009	RE15-10-8020
247907010	RE15-10-8018
247907011	RE15-10-8015
247907012	RE15-10-8021
247907013	RE15-10-8024
247907014	RE15-10-8016
247907015	RE15-10-8065
247907016	RE15-10-8066
247907017	RE15-10-8033
247908001	RE15-10-8089
247908002	RE15-10-8086
247908003	RE15-10-8088

Case Narrative

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

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

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

A handwritten signature in black ink, appearing to read "for Valerie Davis".

Valerie Davis

Project Manager

List of current GEL Certifications as of 02 March 2010

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

Chain of Custody and Supporting Documentation

Tuesday, February 23, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2013

LOS ALAMOS

REQUEST NUMBER: 10-2013

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/25/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247907, 247908 %.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8019	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8013	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8026	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8017	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8025	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8022	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8014	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8023	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8020	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8018	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8015	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8021	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8024	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8016	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8065	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8066	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8033	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8089	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8089	1	POLY	SW-846:6850	Ice	W
RE15-10-8089	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8086	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8086	1	POLY	SW-846:6850	Ice	W
RE15-10-8086	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8088	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8088	1	POLY	SW-846:6850	Ice	W
RE15-10-8088	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Tuesday, February 23, 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: 2/23/2010

TURNAROUND/REPORT DUE: 3/25/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8020	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	

Page 1 of 4
REQUEST NUMBER: 10-2013

These Samples are on:

LANL Request Number: 10-2013

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Tuesday, February 23, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
		1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
	SW-846:6850	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	

Tuesday, February 23, 2010 Page 3 of 4
 REQUEST NUMBER: 10-2013

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6850	1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
	SW-846:7470A	1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	
	SW-846:7471A	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	
		1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8068	R	2/18/2010	
	SW-846:9012A	1	RE15-10-8013	R	2/18/2010	
		1	RE15-10-8014	R	2/18/2010	
		1	RE15-10-8015	R	2/18/2010	
		1	RE15-10-8016	R	2/18/2010	
		1	RE15-10-8017	R	2/18/2010	

Tuesday, February 23, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-9012A	1	RE15-10-8018	R	2/18/2010	
		1	RE15-10-8019	R	2/18/2010	
		1	RE15-10-8020	R	2/18/2010	
		1	RE15-10-8021	R	2/18/2010	
		1	RE15-10-8022	R	2/18/2010	
		1	RE15-10-8023	R	2/18/2010	
		1	RE15-10-8024	R	2/18/2010	
		1	RE15-10-8025	R	2/18/2010	
		1	RE15-10-8026	R	2/18/2010	
		1	RE15-10-8033	R	2/18/2010	
		1	RE15-10-8065	R	2/18/2010	
		1	RE15-10-8066	R	2/18/2010	
		1	RE15-10-8086	W	2/18/2010	
		1	RE15-10-8088	W	2/18/2010	
		1	RE15-10-8089	W	2/18/2010	

Final Page of REQUEST NUMBER 10-2013

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-2013		
Received By: Patricia Dover-Dent			Date Received: February 24, 2009		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 60 CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 1-4 11,&13C
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		
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S

7209 7850 1768 1C 7209 7850 1702 11C

7209 7850 1757 1C 7209 7850 1713 13C

7209 7850 1805 2C 7209 7850 1724 13C

7209 7850 1790 3C **Radioactive Samples in this cooler**

7209 7850 1735 3C

7209 7850 1746 4C

7209 7850 1779 5C

7209 7850 1780 5C

PM (or PMA) review: Initials

Date

2/26/10

ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWT: 58.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

FedEx

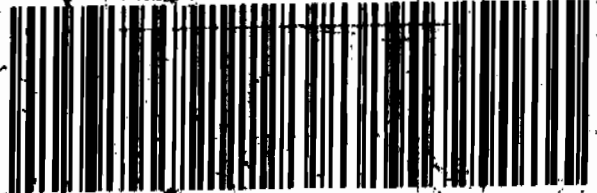


2 of 2
TRK# 7209 7850 1768
NN MASTER NN

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWT: 58.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR3A05529E00

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TRK# 7209 7850 1805
NN MASTER NN

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWT: 47.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

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2 of 2
MPS# 7209 7850 1757
Mstr# 7209 7850 1746 0201

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 666-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

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(843) 556-8171
REF: 6B010AMR3A05529E00

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radioactive

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2 of 2
MPS# 7209 7850 1790
Mstr# 7209 7850 1780 0201

WED - 24FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 685-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 53.9 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

ORIGIN ID: SAFA (505) 685-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTWGT: 56.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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

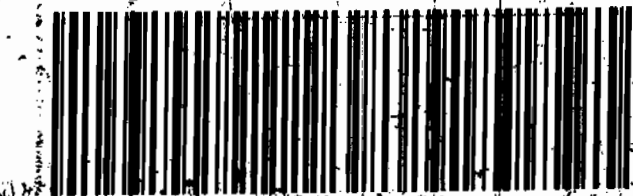


2 of 2
MPSH 0263 7209 7850 1735
Matr# 7209 7850 1724 0201

WED - 24FEB A1
PRIORITY OVERNIGHT

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CHS

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

ACTWGT: 53.9 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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



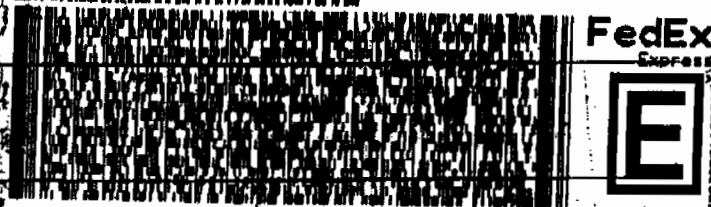
2 of 2
MPSH 0263 7209 7850 1779
Matr# 7209 7850 1766 0201

WED - 24FEB A1
PRIORITY OVERNIGHT

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1 of 2
TRKH 0201 7209 7850 1746
Matr# 7209 7850 1746

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PRIORITY OVERNIGHT

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

ACTWGT: 56.0 LB MAN
CAD: 0014176/CAFE2450

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2040 SAVAGE RD

CHARLESTON SC 29407
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1 of 2
TRKH 0201 7209 7850 1780
Matr# 7209 7850 1780

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PRIORITY OVERNIGHT

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CHS

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ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTGNT: 57.0 LB MAN
CAD: 0014178/CAPE2450
BILL SENDER

ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTGNT: 57.0 LB MAN
CAD: 0014178/CAPE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 5B010AAREW0138DM00

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 5B010AAREW0138DM00



2 of 2
MPS# 7209 7850 1702
Matr# 7209 7850 1888 0201

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TRK# 7209 7850 1713
0201

WED - 24FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 23FEB10
ACTGNT: 43.0 LB MAN
CAD: 0014178/CAPE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 5B010AAREW0138DM00

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1 of 2
TRK# 7209 7850 1724
0201
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PRIORITY OVERNIGHT

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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 10-2013**

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: 958912

Prep Batch Number: 958909

Sample Analysis

Sample ID	Client ID
247907001	RE15-10-8019
247907002	RE15-10-8013
247907003	RE15-10-8026
247907004	RE15-10-8017
247907005	RE15-10-8025
247907006	RE15-10-8022
247907007	RE15-10-8014
247907008	RE15-10-8023
247907009	RE15-10-8020
247907010	RE15-10-8018
247907011	RE15-10-8015
247907012	RE15-10-8021
247907013	RE15-10-8024
247907014	RE15-10-8016
247907015	RE15-10-8065

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247907016	RE15-10-8066
247907017	RE15-10-8033
1202056502	Interference Check Sample (ICS)
1202056498	Method Blank (MB)
1202056499	Laboratory Control Sample (LCS)
1202056500	247907002(RE15-10-8013) Matrix Spike (MS)
1202056501	247907002(RE15-10-8013) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

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QC Sample Designation

Sample 247907002 (RE15-10-8013) 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.

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Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Heather K. Mauer Date: 02/16/10

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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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8019

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907001

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.629	ug/kg	J	1	12-MAR-10 16:55	per0312055a
	Perchlorate Isotope Ratio			3.04			1	12-MAR-10 16:55	per0312055a
14797-73-0	Perchlorate-101	.597	2.39	0.630	ug/kg	J	1	12-MAR-10 16:55	per0312055a
	Perchlorate-O(18)			5.84	ug/kg		1	12-MAR-10 16:55	per0312055a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8013

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907002

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.638	2.55	0.638	ug/kg	U	1	12-MAR-10 17:31	per0312059a
	Perchlorate Isotope Ratio						1	12-MAR-10 17:31	per0312059a
14797-73-0	Perchlorate-101	.638	2.55	0.638	ug/kg	U	1	12-MAR-10 17:31	per0312059a
	Perchlorate-O(18)			6.24	ug/kg		1	12-MAR-10 17:31	per0312059a

[^] 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 perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8026

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907003

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 90.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	2.13	ug/kg	J	1	12-MAR-10 17:59	per0312062a
	Perchlorate Isotope Ratio			3.07			1	12-MAR-10 17:59	per0312062a
14797-73-0	Perchlorate-101	.55	2.2	2.12	ug/kg	J	1	12-MAR-10 17:59	per0312062a
	Perchlorate-O(18)			6.05	ug/kg		1	12-MAR-10 17:59	per0312062a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form i

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8017
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907004
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 75

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.666	2.66	0.666	ug/kg	U	1	12-MAR-10 18:08	per0312063a
	Perchlorate Isotope Ratio								
14797-73-0	Perchlorate-101	.666	2.66	0.666	ug/kg	U	1	12-MAR-10 18:08	per0312063a
	Perchlorate-O(18)			6.56	ug/kg		1	12-MAR-10 18:08	per0312063a

^ 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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8025

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907005

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 68

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.737	2.95	0.737	ug/kg	U	1	12-MAR-10 18:17	per0312064a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:17	per0312064a
14797-73-0	Perchlorate-101	.737	2.95	0.737	ug/kg	U	1	12-MAR-10 18:17	per0312064a
	Perchlorate-O(18)			7.39	ug/kg		1	12-MAR-10 18:17	per0312064a

[^] 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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8022

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907006

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 96

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.521	2.08	0.521	ug/kg	U	1	12-MAR-10 18:26	per0312065a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:26	per0312065a
14797-73-0	Perchlorate-101	.521	2.08	0.521	ug/kg	U	1	12-MAR-10 18:26	per0312065a
	Perchlorate-O(18)			5.27	ug/kg		1	12-MAR-10 18:26	per0312065a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 258909
Extraction Type: Solid Prep
Client Sample No. RE15-10-8014
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907007
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 94

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	.532	2.13	0.532	ug/kg	U	1	12-MAR-10 18:35	per0312066a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:35	per0312066a
14797-73-0	Perchlorate-101	.532	2.13	0.532	ug/kg	U	1	12-MAR-10 18:35	per0312066a
	Perchlorate-O(18)			5.26	ug/kg		1	12-MAR-10 18:35	per0312066a

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

*Concentration =

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE15-10-8023
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907008
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.609	2.44	0.609	ug/kg	U	1	12-MAR-10 18:44	per0312067a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:44	per0312067a
14797-73-0	Perchlorate-101	.609	2.44	0.609	ug/kg	U	1	12-MAR-10 18:44	per0312067a
	Perchlorate-O(18)			6.30	ug/kg		1	12-MAR-10 18:44	per0312067a

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

*Concentration =

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE15-10-8020
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907009
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 93.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.569	ug/kg	J	1	12-MAR-10 18:53	per0312068a
	Perchlorate Isotope Ratio			2.69			1	12-MAR-10 18:53	per0312068a
14797-73-0	Perchlorate-101	.533	2.13	0.646	ug/kg	J	1	12-MAR-10 18:53	per0312068a
	Perchlorate-O(18)			5.17	ug/kg		1	12-MAR-10 18:53	per0312068a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE15-10-8018
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907010
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 79

CAS No.	Analyte ^A	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.632	2.53	0.632	ug/kg	U	1	12-MAR-10 19:30	per0312072a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:30	per0312072a
14797-73-0	Perchlorate-101	.632	2.53	0.632	ug/kg	U	1	12-MAR-10 19:30	per0312072a
	Perchlorate-O(18)			6.42	ug/kg		1	12-MAR-10 19:30	per0312072a

^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 =

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8015

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907011

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

% Solids: 63

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.798	3.19	0.798	ug/kg	U	1	12-MAR-10 19:39	per0312073a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:39	per0312073a
14797-73-0	Perchlorate-101	.798	3.19	0.798	ug/kg	U	1	12-MAR-10 19:39	per0312073a
	Perchlorate-O(18)			7.92	ug/kg		1	12-MAR-10 19:39	per0312073a

[^] 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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8021

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907012

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.582	2.33	0.582	ug/kg	U	1	12-MAR-10 19:48	per0312074a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:48	per0312074a
14797-73-0	Perchlorate-101	.582	2.33	0.582	ug/kg	U	1	12-MAR-10 19:48	per0312074a
	Perchlorate-O(18)			5.38	ug/kg		1	12-MAR-10 19:48	per0312074a

[^] 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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8024

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907013

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte [^]	MIDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.575	2.3	0.575	ug/kg	U	1	12-MAR-10 19:57	per0312075a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:57	per0312075a
14797-73-0	Perchlorate-101	.575	2.3	0.575	ug/kg	U	1	12-MAR-10 19:57	per0312075a
	Perchlorate-O(18)			5.70	ug/kg		1	12-MAR-10 19:57	per0312075a

[^] 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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8016

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907014

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 90.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.552	ug/kg	U	1	12-MAR-10 20:06	per0312076a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:06	per0312076a
14797-73-0	Perchlorate-101	.552	2.21	0.552	ug/kg	U	1	12-MAR-10 20:06	per0312076a
	Perchlorate-O(18)			5.48	ug/kg		1	12-MAR-10 20:06	per0312076a

[^] 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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8065

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907015

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 90.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.551	2.2	0.551	ug/kg	U	1	12-MAR-10 20:15	per0312077a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:15	per0312077a
14797-73-0	Perchlorate-101	.551	2.2	0.551	ug/kg	U	1	12-MAR-10 20:15	per0312077a
	Perchlorate-O(18)			5.43	ug/kg		1	12-MAR-10 20:15	per0312077a

[^] 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: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No.
RE15-10-8066
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907016
Date Filtered: 09-MAR-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	.619	2.48	0.619	ug/kg	U	1	12-MAR-10 20:24	per0312078a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:24	per0312078a
14797-73-0	Perchlorate-101	.619	2.48	0.619	ug/kg	U	1	12-MAR-10 20:24	per0312078a
	Perchlorate-O(18)			6.56	ug/kg		1	12-MAR-10 20:24	per0312078a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8033

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907017

Date Filtered: 09-MAR-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	.661	2.64	0.661	ug/kg	U	1	12-MAR-10 20:33	per0312079a
	Perchlorate Isotope Ratio					U	1	12-MAR-10 20:33	per0312079a
14797-73-0	Perchlorate-101	.661	2.64	0.661	ug/kg	U	1	12-MAR-10 20:33	per0312079a
	Perchlorate-O(18)			6.52	ug/kg		1	12-MAR-10 20:33	per0312079a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-2013

Extract Batch Code: 958909 Date Filtered: 09-MAR-10

Matrix: SOIL Sample ID: 1202056499

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.94	ug/kg	96.8		70 - 130
Perchlorate Isotope Ratio		2.98				-
Perchlorate-101	2.00	1.98	ug/kg	99.0		70 - 130
Perchlorate-O(18)		4.78	ug/kg			-

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

Form 5a

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-2013

Extract Batch Code: 958909 Date Filtered: 09-MAR-10

Matrix: SOIL Sample ID: 1202056502

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.19	ug/kg	110		70 - 130
Perchlorate Isotope Ratio		3.14				
Perchlorate-101	2.00	2.13	ug/kg	107		70 - 130
Perchlorate-O(18)		5.08	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.

Identify Sample Report MassLynx 4.0 SP4
 ie GEL Group, LLC Analyst: Charles W. Wilson

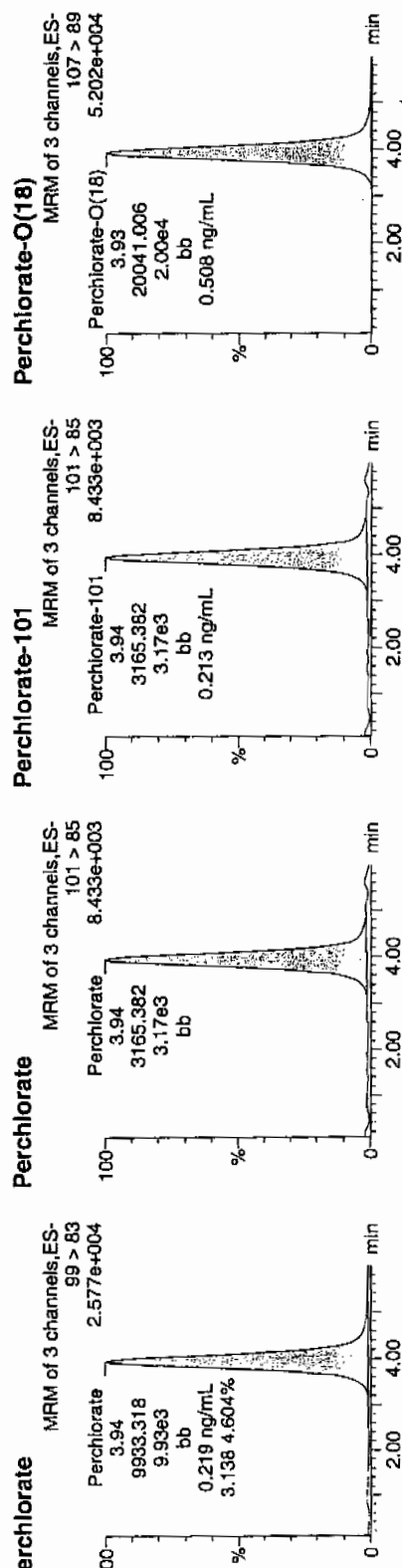
Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

First Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
 Second: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312054a
 Date: 12-Mar-2010
 Time: 16:46:01
 ID: 1202056502
 Label: 2:1,C

03-13-10

1202056502 | 30070 | 105 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
202056502	Perchlorate	99 > 83	3.94	9933.318	9933.318	bb			0.2192	109.58	9.58	820.725	3.14
202056502	Perchlorate-101	101 > 85	3.94	3165.382	3165.382	bb			0.2130	106.52	6.52	324.046	
1202056502	Perchlorate-O(18)	107 > 89	3.93	20041.006	20041.006	bb			0.5079	101.59	1.59	695.075	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2013

Extract Batch Code: 958909

Date Extracted: 09-MAR-10

GEL MS/PS ID: 1202056500

Client ID: RE15-10-8013

GEL MSD/PSD ID: 1202056501

QC Type: MS

Compound^	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.55	0.160	ug/kg	2.85	105		2.88	106		1.01		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		2.95			2.93			0			-
Perchlorate-101	2.55	0.194	ug/kg	2.95	108		3	110		1.53		30	75 - 125
Perchlorate-O(18)	0	6.24	ug/kg	6.31			6.53			3.38			-

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

Comments:

Form 4

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-2013

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	12-MAR-10	per0312001a	IPB001
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312001a	IPB001
Perchlorate	0.00	0	NA	12-MAR-10	per0312002a	IPB001
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312002a	IPB001

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

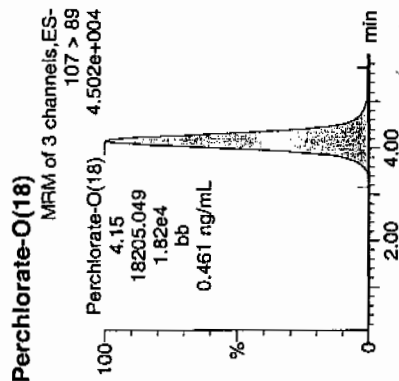
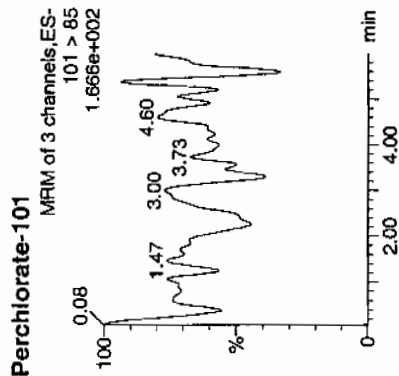
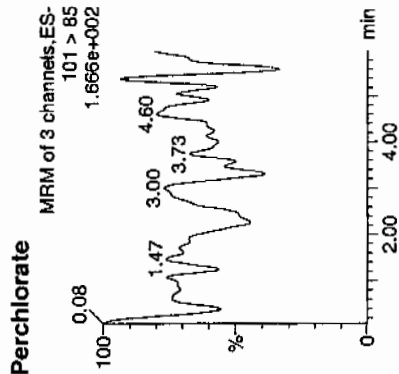
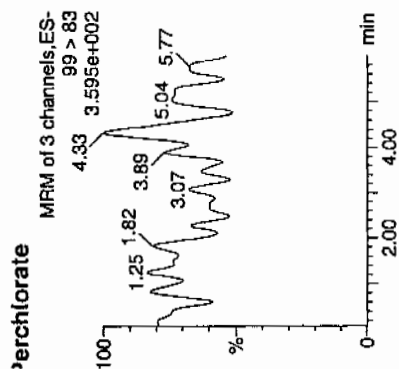
Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031210a.mdb 13 Mar 2010 15:15:55
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031210a.cdb 13 Mar 2010 15:16:16

Sample Name: per0312001a
Date: 12-Mar-2010
Time: 08:46:24
D: IPB001
Lot: 1:1,A

03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB001	Perchlorate	99 > 83											0.00
PB001	Perchlorate-101	101 > 85											
PB001	Perchlorate-O(18)	107 > 89	4.15	18205.049	18205.049	bb			0.4614	92.28	-7.72	2888.4...	

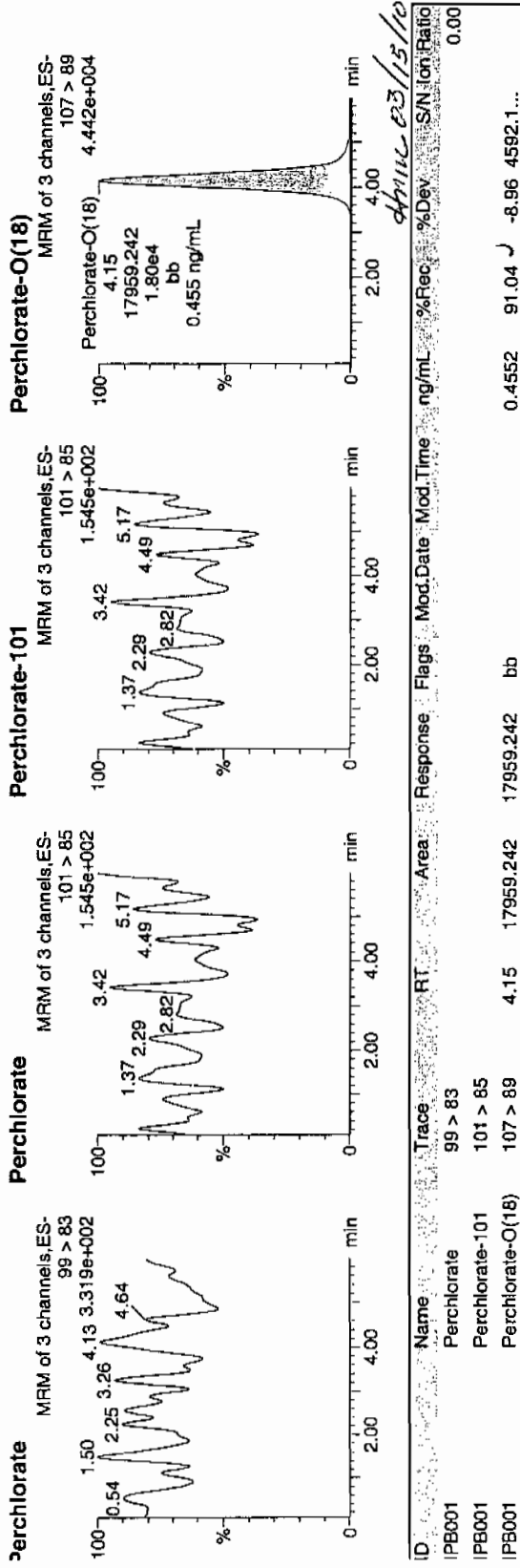
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312002a
Date: 12-Mar-2010
Time: 08:55:38
D: IPB001
Vial: 1:1,A

and
03-13-10



Perchlorate Continuing Calibration Blank

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

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-2013Lab Code: GELReporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	12-MAR-10	per0312008a	IPB002
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312008a	IPB002
Perchlorate	0.00	0	NA	12-MAR-10	per0312010a	IPB003
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312010a	IPB003
Perchlorate	0.00	0	NA	12-MAR-10	per0312013a	IPB004
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312013a	IPB004
Perchlorate	0.00	0	NA	12-MAR-10	per0312020a	IPB005
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312020a	IPB005
Perchlorate	0.00	0	NA	12-MAR-10	per0312033a	IPB006
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312033a	IPB006
Perchlorate	0.00	0	NA	12-MAR-10	per0312046a	IPB007
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312046a	IPB007
Perchlorate	0.00	0	NA	12-MAR-10	per0312051a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2013

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	12-MAR-10	per0312051a	IPB008
Perchlorate	0.00	0	NA	12-MAR-10	per0312057a	IPB009
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312057a	IPB009
Perchlorate	0.00	0	NA	12-MAR-10	per0312070a	IPB010
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312070a	IPB010
Perchlorate	0.00	0	NA	12-MAR-10	per0312082a	IPB011
Perchlorate-101	0.00	0	NA	12-MAR-10	per0312082a	IPB011

Quantity Sample Report MassLynx 4.0 SP4

ne GEL Group, LLC Analyst: Charlers W. Wilson

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atset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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rinted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

ame: per0312008a

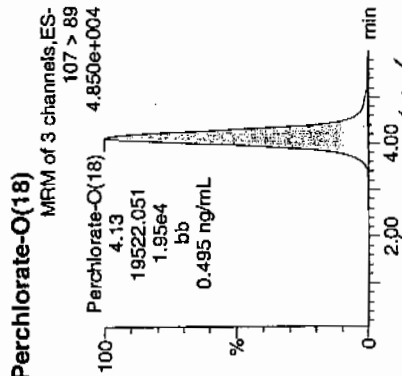
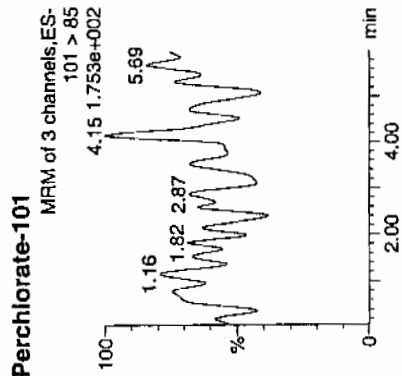
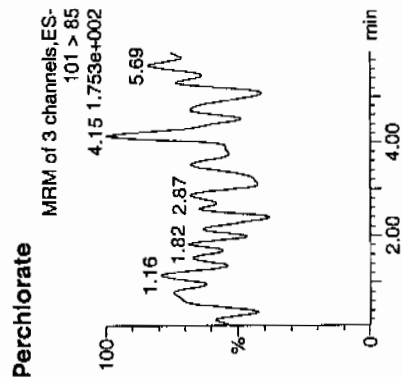
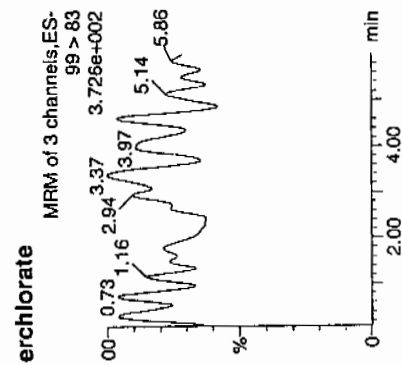
ate: 12-Mar-2010

ime: 09:49:46

o: IPB002

ial: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	4.13	19522.051	19522.051	bb			0.4948	98.96	-1.04	4136.0...	

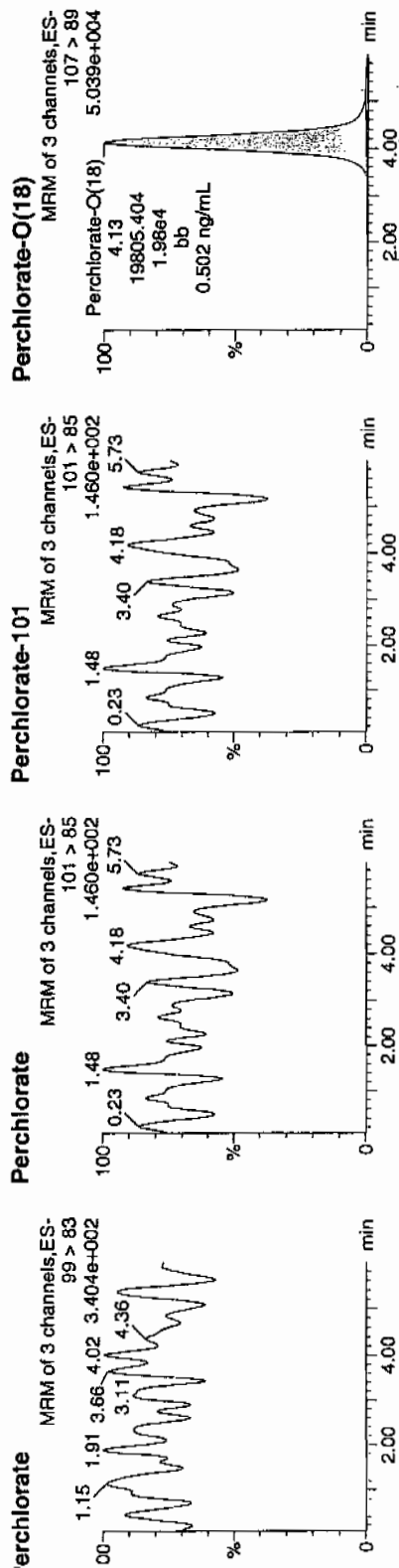
Quantify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per03121010a
 Date: 12-Mar-2010
 Time: 10:07:51
 ID: IPB003
 Label: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	4.13	19805.404	19805.404	bb			0.5020	100.40	✓	0.40	2796.9...

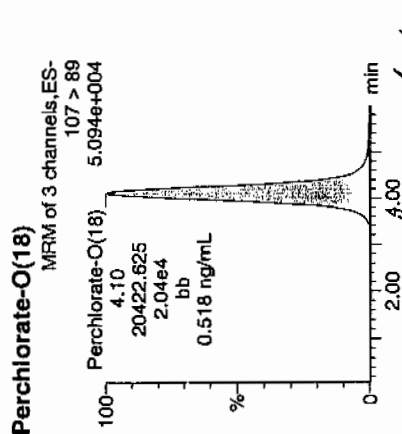
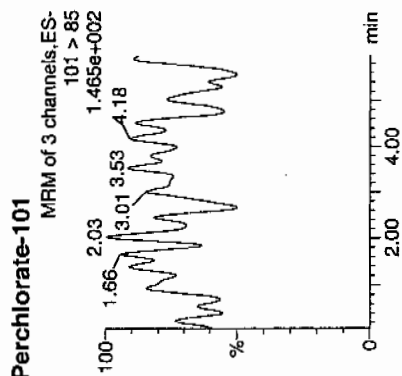
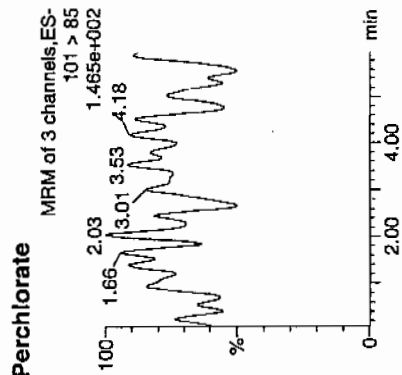
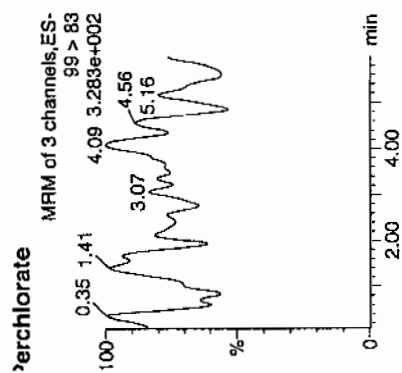
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312013a
Date: 12-Mar-2010
Time: 10:34:58
D: IPB004
File: 1:1,A

03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB004	Perchlorate	99 > 83											
PB004	Perchlorate-101	101 > 85											
PB004	Perchlorate-O(18)	107 > 89	4.10	20422.625	20422.625	bb			0.5176	103.52	✓	3.52	1202.0...

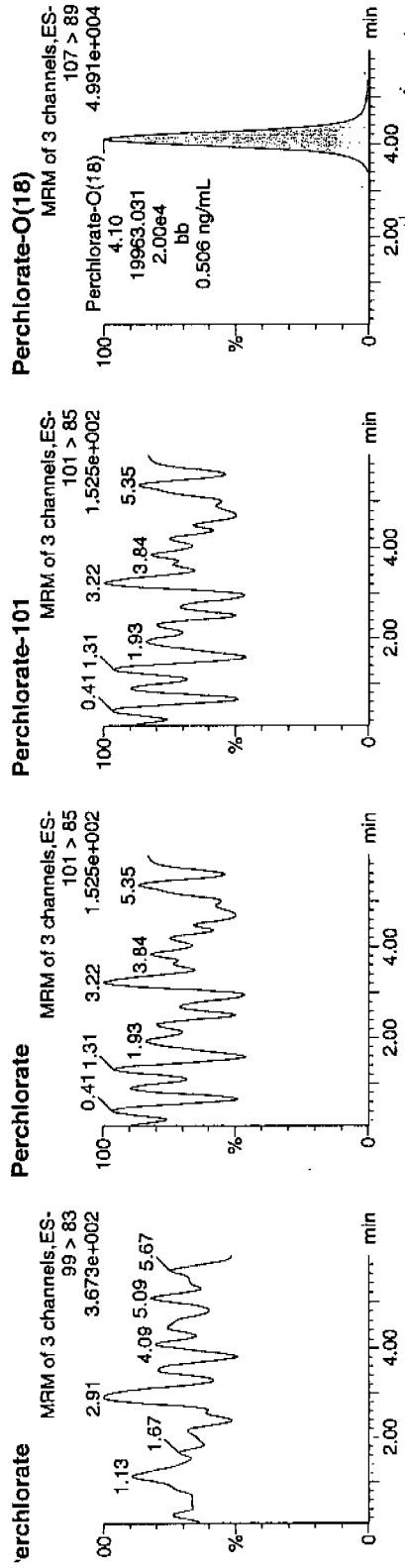
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312020a
Date: 12-Mar-2010
Time: 11:38:14
ID: IPB005
Label: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B005	Perchlorate	99 > 83										0.00
B005	Perchlorate-101	101 > 85										
B005	Perchlorate-O(18)	107 > 89	4.10	19963.031	bb	19963.031		0.5060	101.19	1.19	1990.6...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qtd

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 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312033a

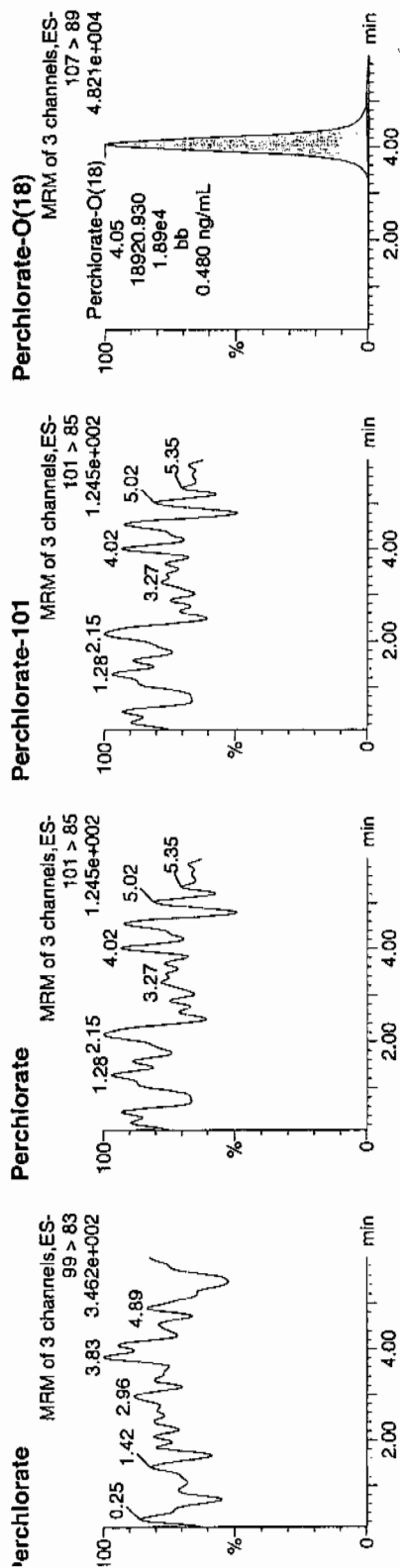
Date: 12-Mar-2010

Time: 13:35:50

ID: IPB006

File: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	4.05	18920.930	18920.930	bb			0.4796	95.91	-4.09	1779.0...	

4.05 18920.930 1.89e4 bb 0.480 ng/mL

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

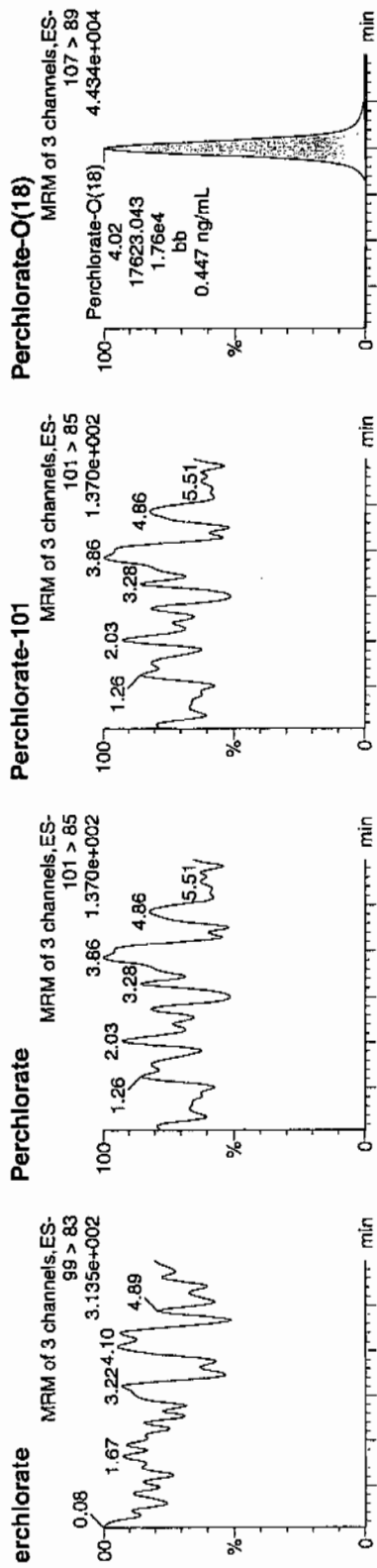
Page 46 of 151

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312046a
Date: 12-Mar-2010
Time: 15:33:30
ID: IPB007
Label: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	4.02	17623.043	17623.043	bb			0.4467	89.33	-10.67	5582.3...	

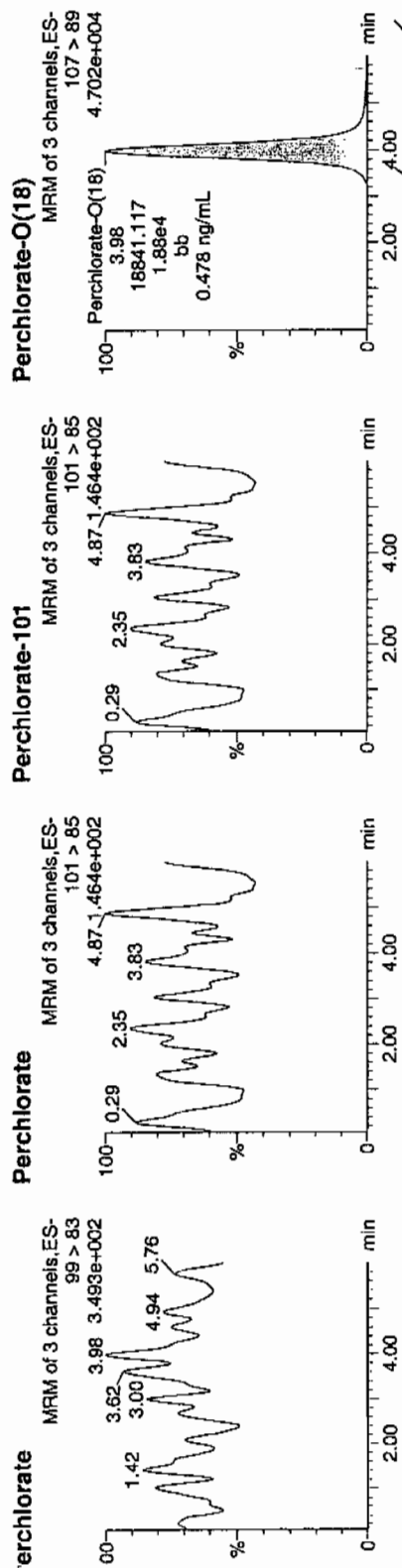
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlene W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312051a
Date: 12-Mar-2010
Time: 16:18:44
Operator: IPB008
Vial: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
Perchlorate	99 > 83											
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	3.98	18841.117	18841.117	bb			0.4775	95.51	-4.49	3999.8...	0.00

4/11/10 03/15/10

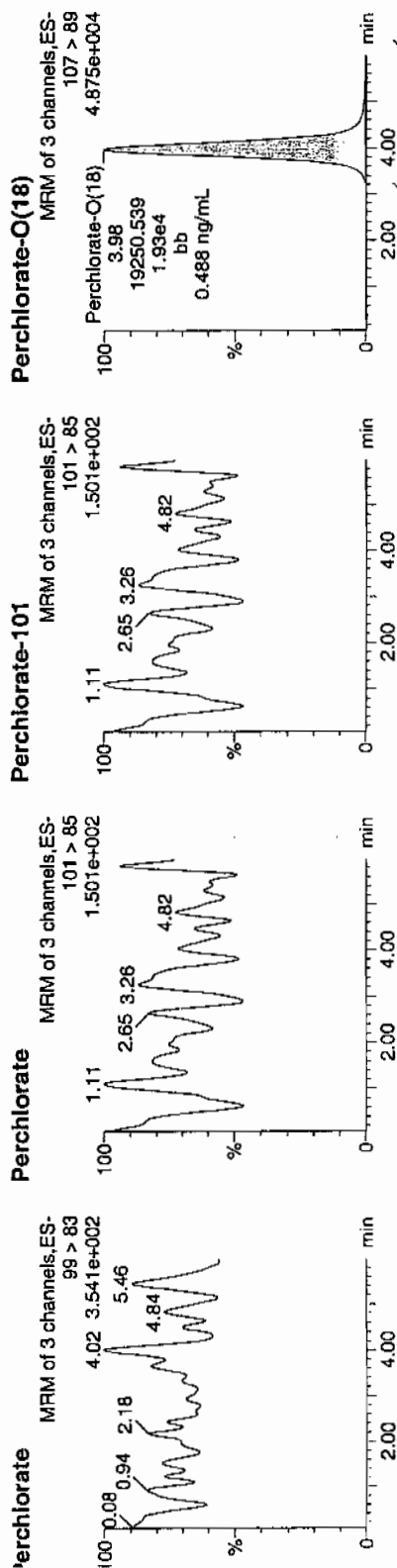
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312057a
Date: 12-Mar-2010
Time: 17:13:22
ID: IPB009
Lot: 1:1,A

03-13-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB009	Perchlorate	99 > 83											
PB009	Perchlorate-101	101 > 85											
PB009	Perchlorate-O(18)	107 > 89	3.98	19250.539	19250.539	bb			0.4879	97.58	-2.42	1079.7...	

0.488 ng/mL

0.488 ng/mL

0.488 ng/mL

0.488 ng/mL

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312070a

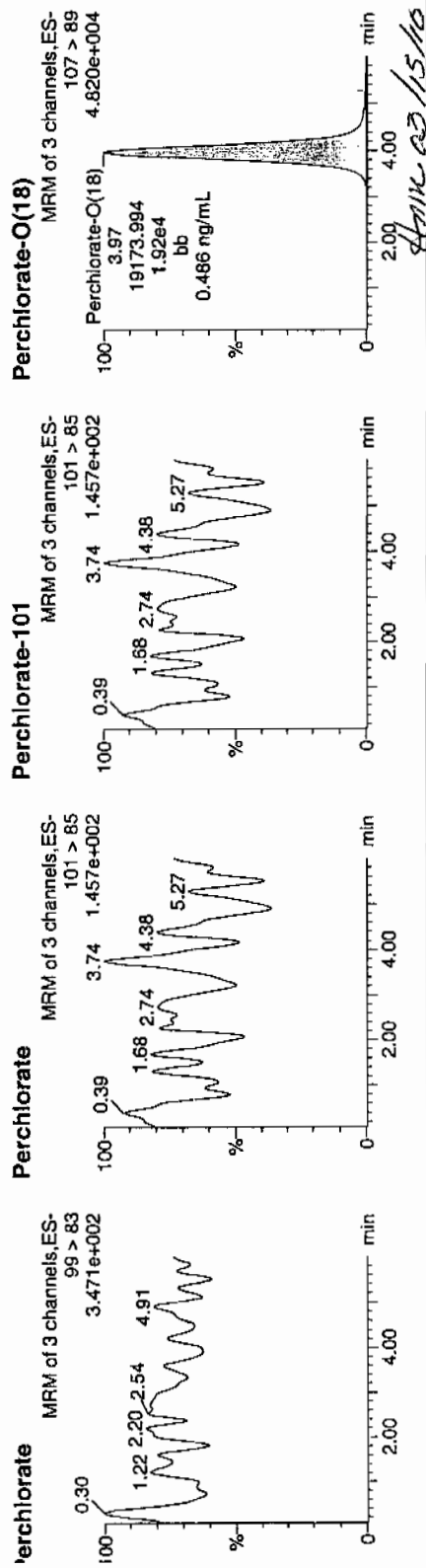
Date: 12-Mar-2010

Time: 19:12:18

ID: IPB010

File: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	3.97	19173.994	19173.994	bb			0.4860	97.19	-2.81	1902.2...	

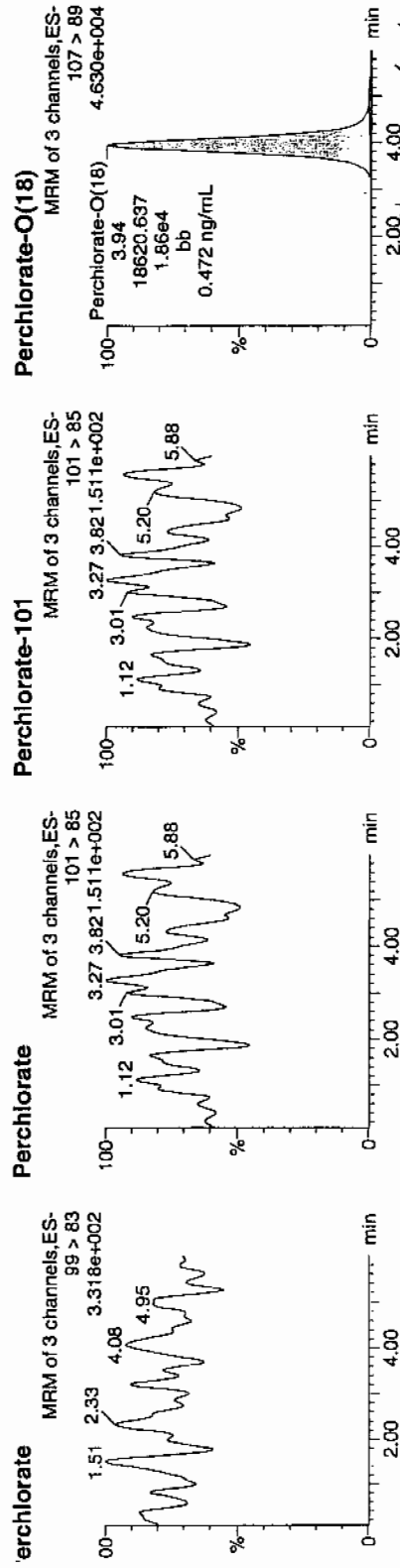
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312082a
Date: 12-Mar-2010
Time: 21:01:12
ID: IPB011
Label: 1:1,A

03-13-10



Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	3.94	18620.637	18620.637	bb			0.4719	94.39	-5.61	3486.0...	0.00

Nairb.ref

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

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

QUATRO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

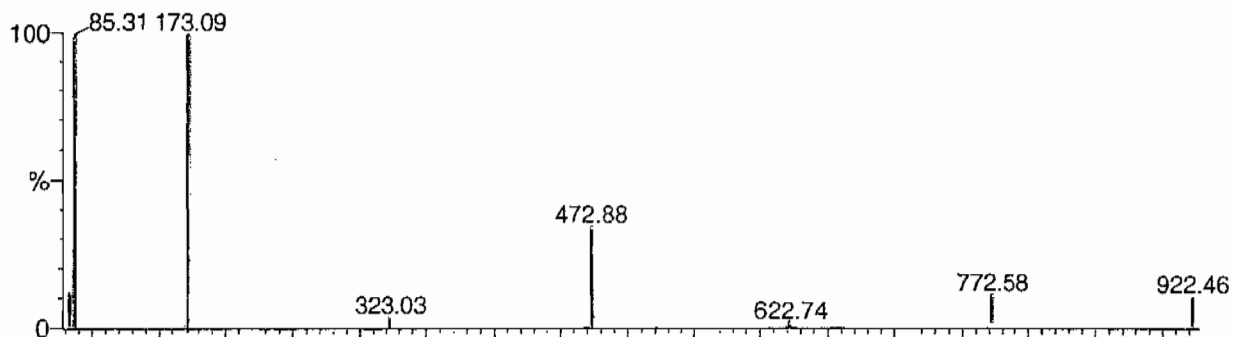
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

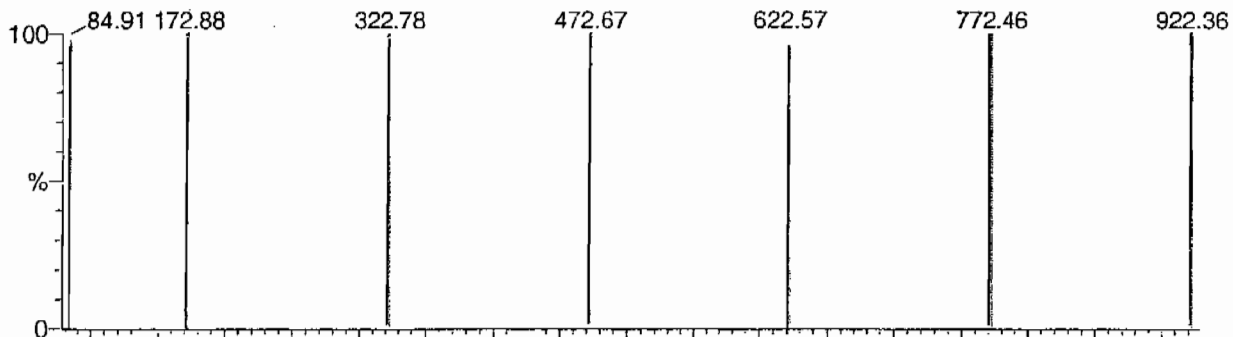
POINTS HIGHLIGHTED BY GWS 01-09-08

Data file: STATMS1 - Uncalibrated

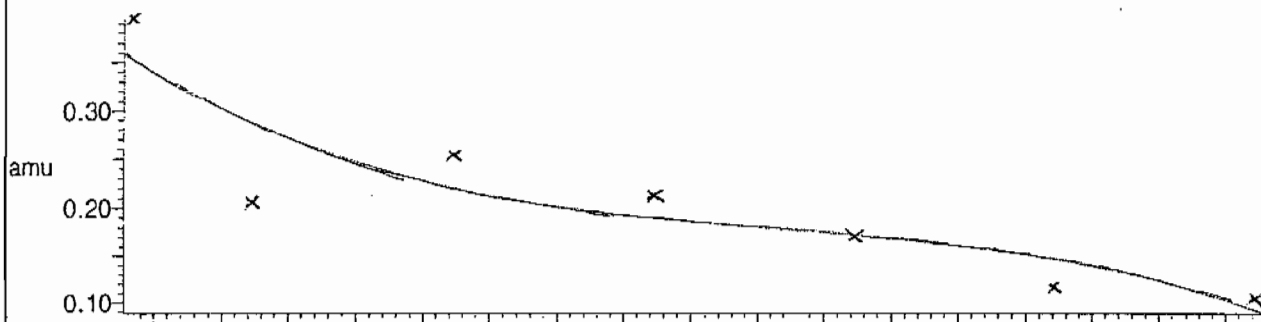
7 matches of 7 tested references



Reference file: Nairb

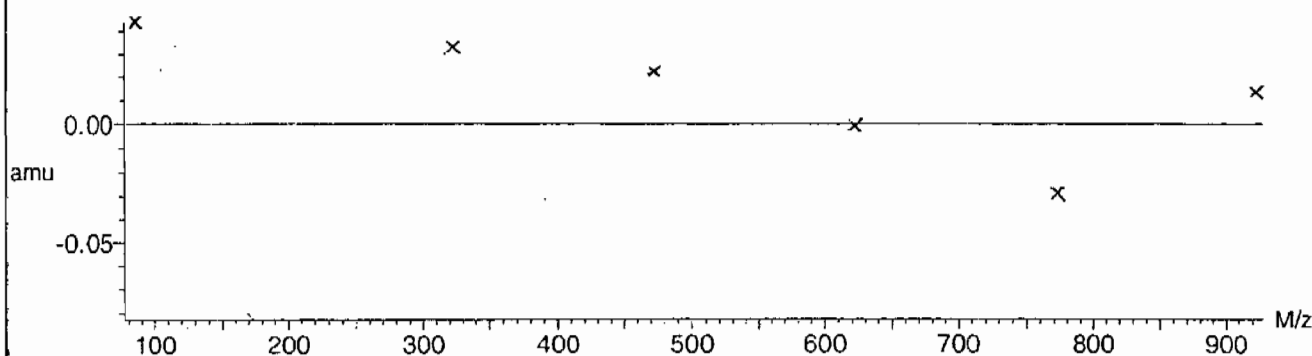


Mass difference (Raw - Ref mass)



Residuals

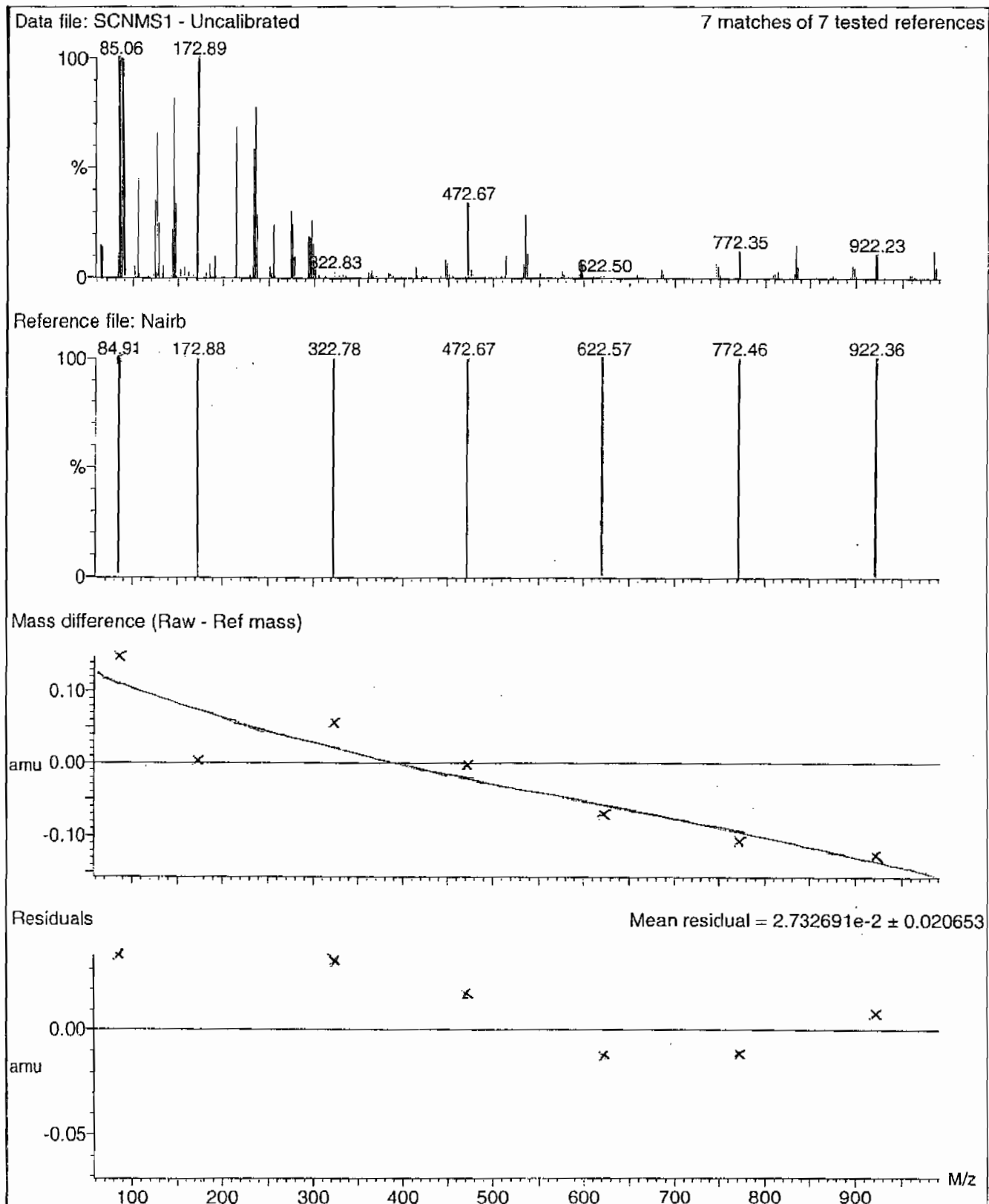
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

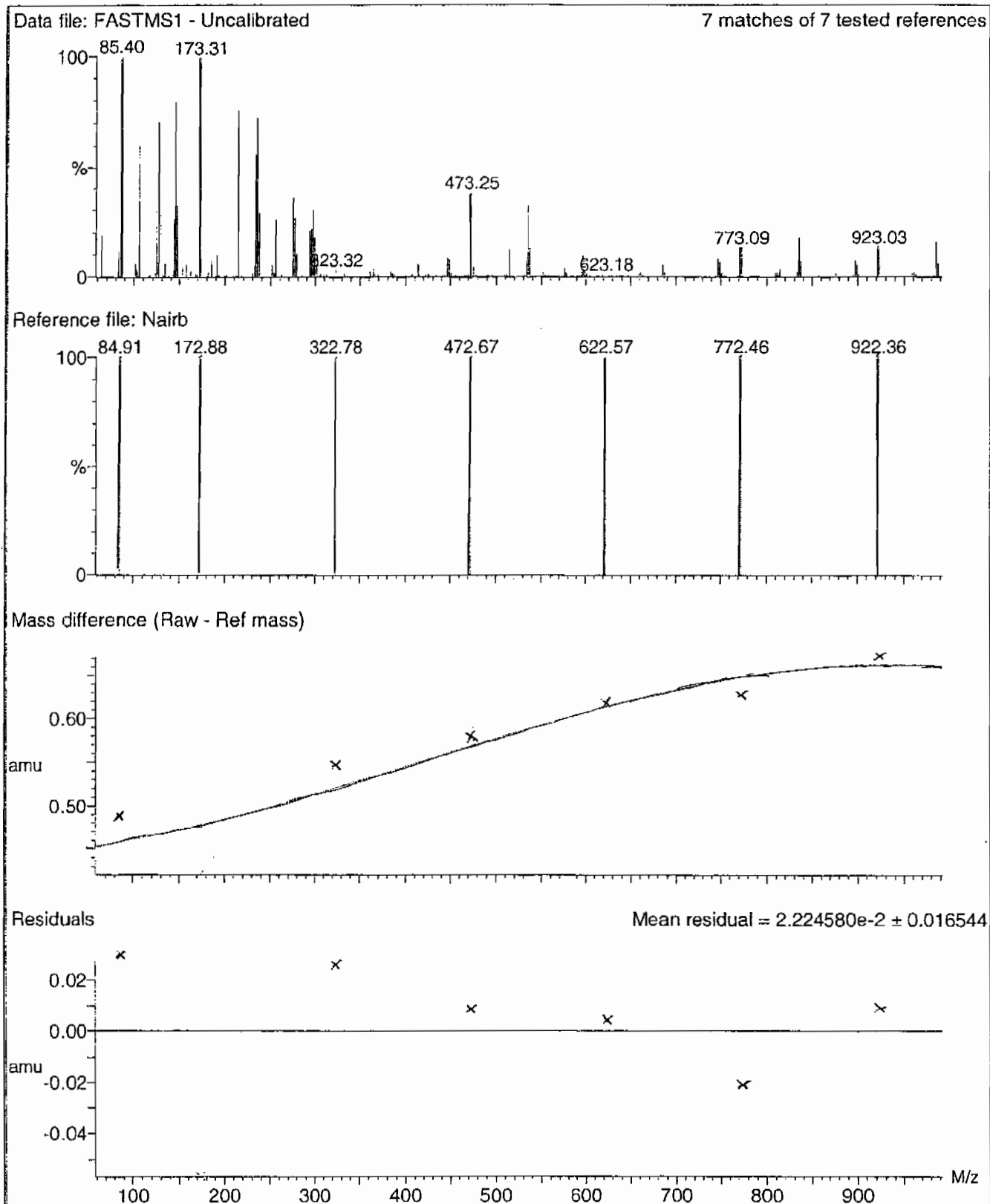
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

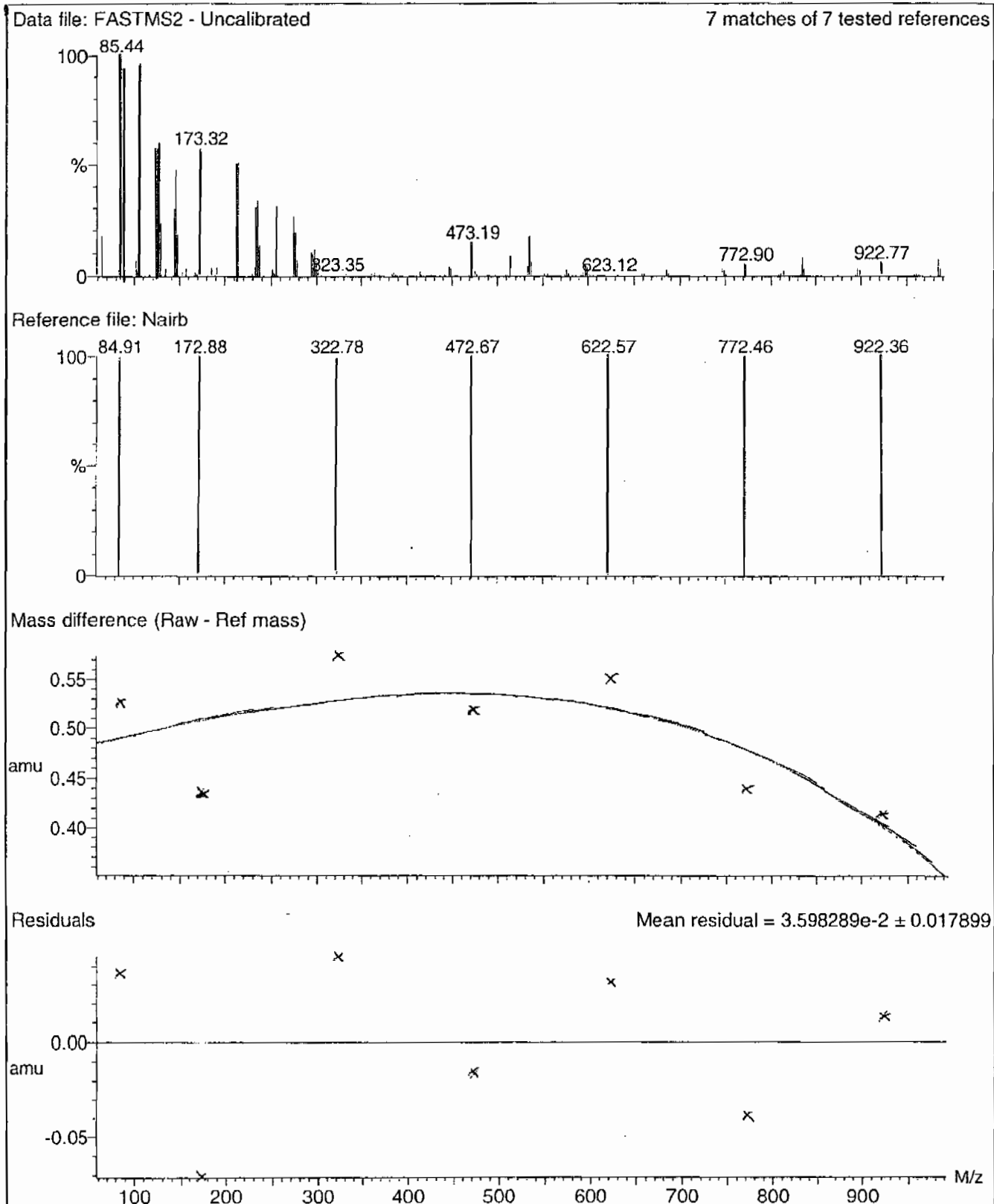
Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

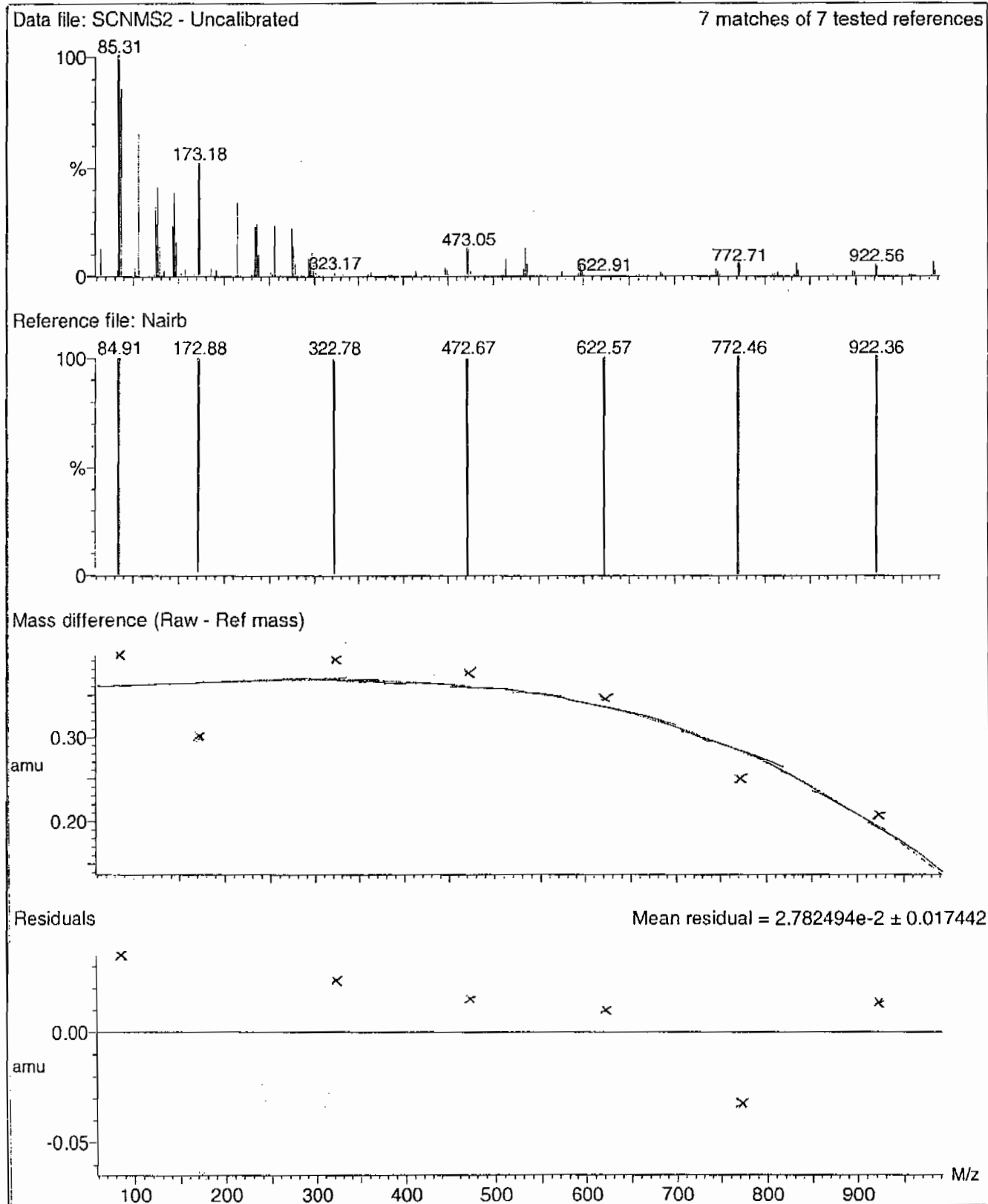
Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

Page 1 of 1

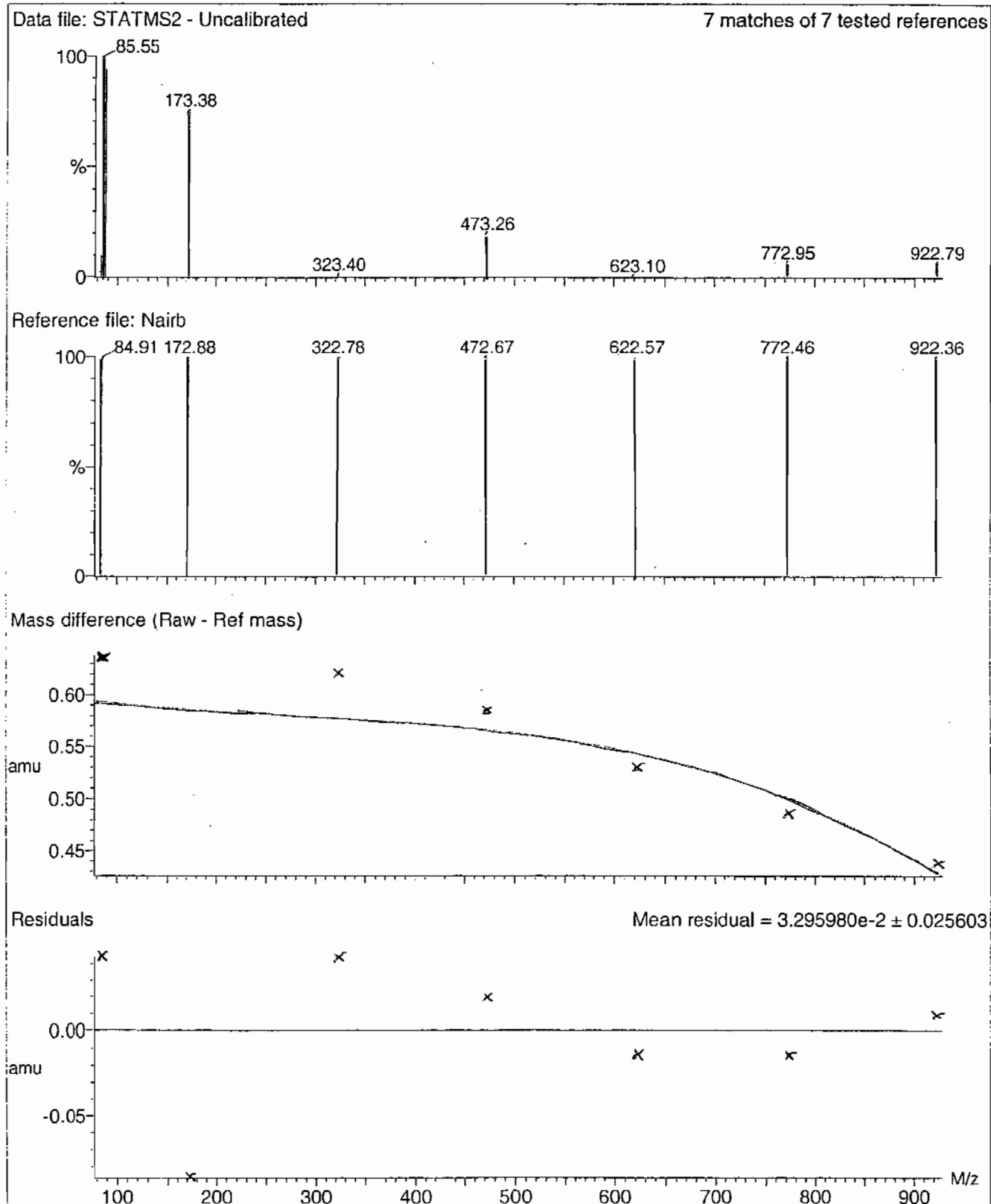
Printed: Tue Jan 08 12:22:56 2008



Calibration Report - MS2 Static

Page 1 of 1

Printed: Tue Jan 08 12:21:59 2008



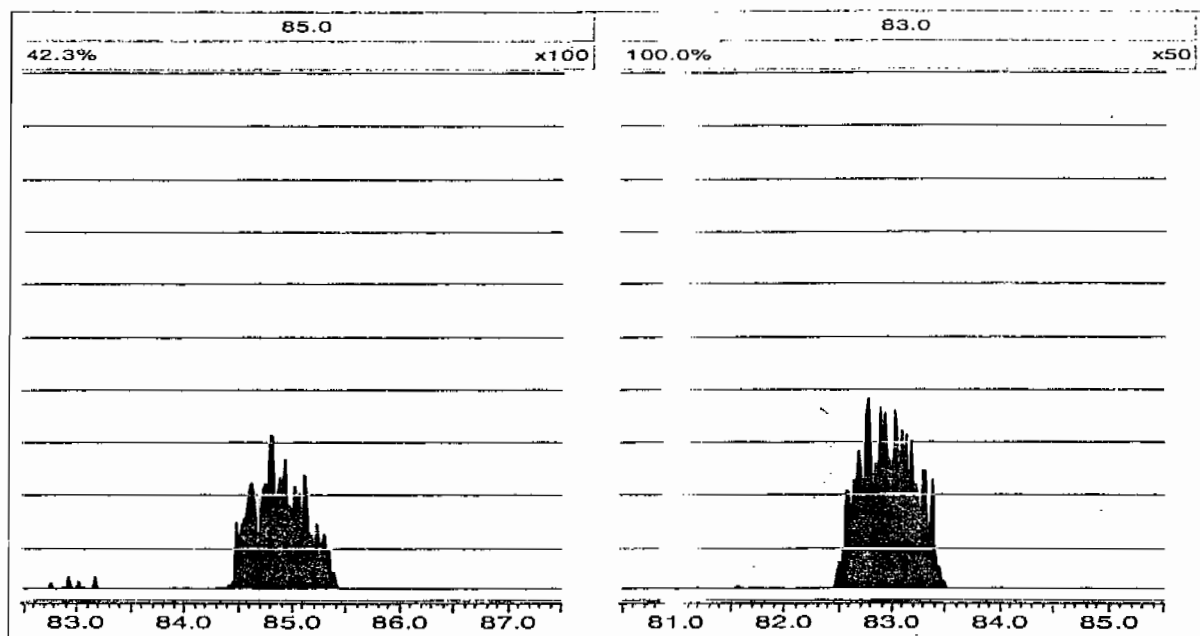
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Friday, March 12, 2010 08:34:51 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

GEL Job No.(SDG): 10-2013

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q
MidLevel Standard Area	per0312006a	12-MAR-10	19891.6				0.98-1.02
Lower Area Limit			9945.8				
Upper Area Limit			39783.2				
1202056498	per0312052a	12-MAR-10 16:27	18188.3	3.99	4.01695	1.007	
1202056499	per0312053a	12-MAR-10 16:37	18855.6	3.98	4.0045	1.006	
1202056502	per0312054a	12-MAR-10 16:46	20041	3.93	3.94242	1.003	
247907001	per0312055a	12-MAR-10 16:55	19284.9	3.98	4.00448	1.006	
247907002	per0312059a	12-MAR-10 17:31	19272.6	3.98	3.97968	1	
1202056500	per0312060a	12-MAR-10 17:40	19494.5	3.98	3.99215	1.003	
1202056501	per0312061a	12-MAR-10 17:49	20163.8	3.98	4.00448	1.006	
247907003	per0312062a	12-MAR-10 17:59	21697	3.97	3.97968	1.002	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013

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
MidLevel Standard Area	per0312006a	12-MAR-10	19891.6				0.98-1.02
Lower Area Limit			9945.8				
Upper Area Limit			39783.2				
247907004	per0312063a	12-MAR-10 18:08	19436.1	3.97	3.97968	1.002	
247907005	per0312064a	12-MAR-10 18:17	19764.5	3.97	4.00447	1.009	
247907006	per0312065a	12-MAR-10 18:26	19971.8	3.97	3.97967	1.002	
247907007	per0312066a	12-MAR-10 18:35	19531	3.95	3.9797	1.008	
247907008	per0312067a	12-MAR-10 18:44	20395.1	3.97	3.97968	1.002	
247907009	per0312068a	12-MAR-10 18:53	19148.3	3.95	3.9797	1.008	
247907010	per0312072a	12-MAR-10 19:30	20042.6	3.95	3.9672	1.004	
247907011	per0312073a	12-MAR-10 19:39	19596.8	3.95	3.9797	1.008	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013

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	per0312006a	12-MAR-10	19891.6				
Lower Area Limit			9945.8				
Upper Area Limit			39783.2				
247907012	per0312074a	12-MAR-10 19:48	18220.4	3.95	3.9672	1.004	
247907013	per0312075a	12-MAR-10 19:57	19550.5	3.95	3.96727	1.004	
247907014	per0312076a	12-MAR-10 20:06	19587.7	3.94	3.96723	1.007	
247907015	per0312077a	12-MAR-10 20:15	19429.8	3.94	3.95488	1.004	
247907016	per0312078a	12-MAR-10 20:24	20891.1	3.95	3.96723	1.004	
247907017	per0312079a	12-MAR-10 20:33	19472.8	3.95	3.96723	1.004	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8019

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907001

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.629	ug/kg	J	1	12-MAR-10 16:55	per0312055a
	Perchlorate Isotope Ratio			3.04			1	12-MAR-10 16:55	per0312055a
14797-73-0	Perchlorate-101	.597	2.39	0.630	ug/kg	J	1	12-MAR-10 16:55	per0312055a
	Perchlorate-O(18)			5.84	ug/kg		1	12-MAR-10 16:55	per0312055a

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

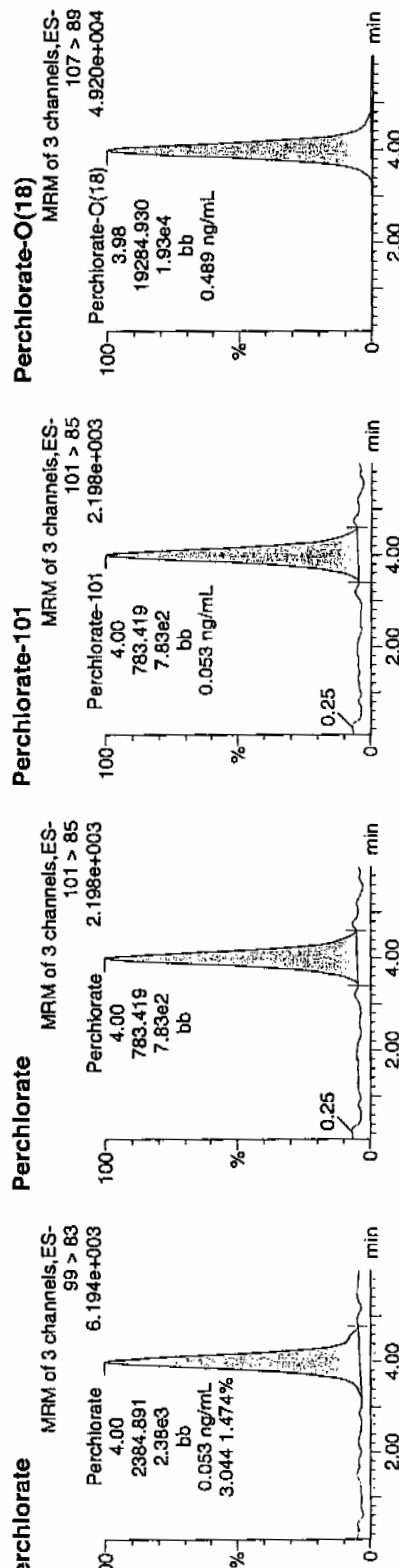
Identify Sample Report MassLynx 4.0 SP4
e GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

st Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
inted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

ime: per0312055a
ite: 12-Mar-2010
me: 16:55:03
: 247907001
al: 2:1,D

1234567891011



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
47907001	Perchlorate	4.00	2384.891	2384.891	bb			0.0526			166.531	3.04
47907001	Perchlorate-101	4.00	783.419	783.419	bb			0.0527			155.310	
47907001	Perchlorate-O(18)	3.98	19284.930	19284.930	bb			0.4888	97.76	-2.24	2785.4...	

$$\frac{2384.891}{45326} \times 100 = 5.26$$

Form I

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8013

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907002

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.638	2.55	0.638	ug/kg	U	1	12-MAR-10 17:31	per0312059a
	Perchlorate Isotope Ratio						1	12-MAR-10 17:31	per0312059a
14797-73-0	Perchlorate-101	.638	2.55	0.638	ug/kg	U	1	12-MAR-10 17:31	per0312059a
	Perchlorate-O(18)			6.24	ug/kg		1	12-MAR-10 17:31	per0312059a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Quantify Sample Report MassLynx 4.0 SP4

the GEL Group, LLC Analyst: Charles W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

1st Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
 rinted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

ame: per0312059a

ate: 12-Mar-2010

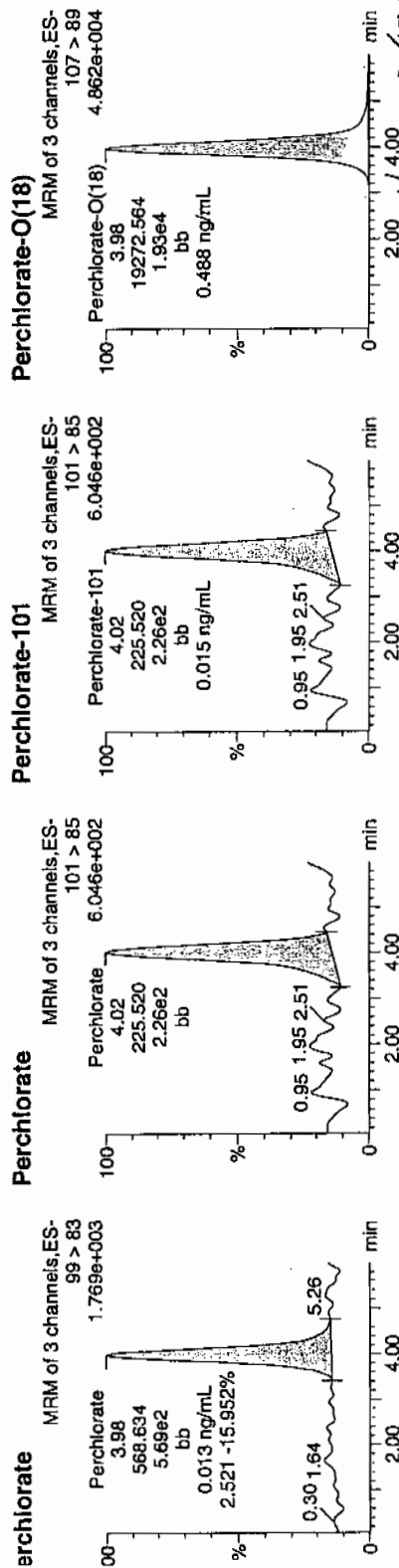
ime: 17:31:41

id: 247907002

ial: 2:1,E

03-13-10

17200-158512 | 5070 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
47907002	Perchlorate	3.98	568.634	568.634	bb			0.0125			44.218	2.52
47907002	Perchlorate-101	4.02	225.520	225.520	bb			0.0152			40.216	
47907002	Perchlorate-O(18)	3.98	19272.564	19272.564	bb			0.4885	97.69	-2.31	4047.2...	

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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8026

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907003

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 90.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	2.13	ug/kg	J	1	12-MAR-10 17:59	per0312062a
	Perchlorate Isotope Ratio			3.07			1	12-MAR-10 17:59	per0312062a
14797-73-0	Perchlorate-101	.55	2.2	2.12	ug/kg	J	1	12-MAR-10 17:59	per0312062a
	Perchlorate-O(18)			6.05	ug/kg		1	12-MAR-10 17:59	per0312062a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312062a

Sample Date: 12-Mar-2010

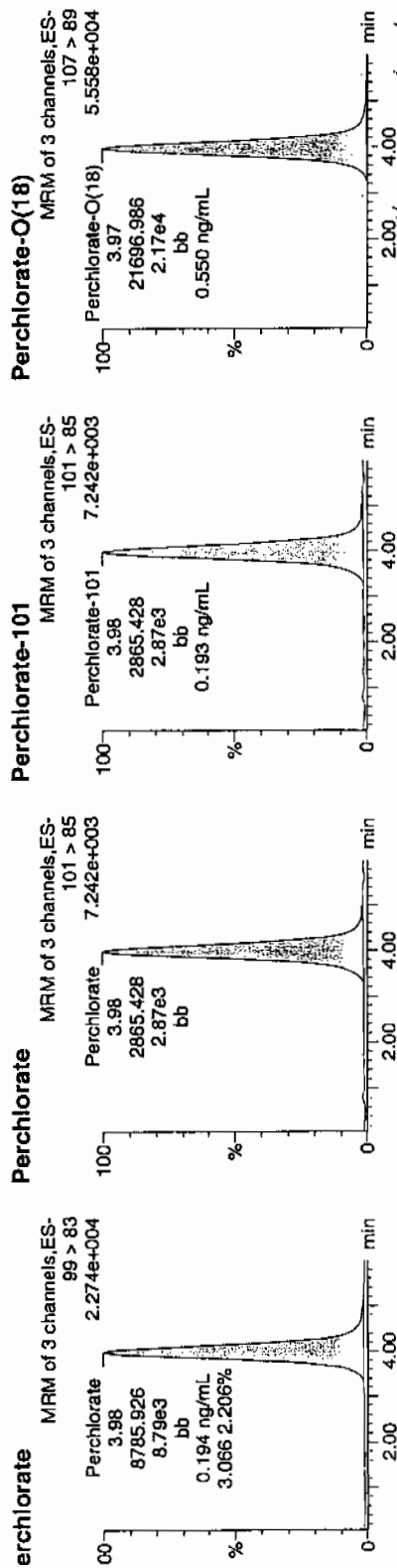
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Sample ID: 247907003

Sample Label: 2-2,B

03-13-10

1600-183012 | 5000 | 1 |



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
47907003	Perchlorate	99 > 83	3.98	8785.926	bb			0.1938			673.206	3.07
47907003	Perchlorate-101	101 > 85	3.98	2865.428	bb			0.1929			423.397	
47907003	Perchlorate-O(18)	107 > 89	3.97	21696.986	bb			0.5499	109.98	9.98	3664.3...	

47907003 1/15/10

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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8017

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907004

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.666	2.66	0.666	ug/kg	U	1	12-MAR-10 18:08	per0312063a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:08	per0312063a
14797-73-0	Perchlorate-101	.666	2.66	0.666	ug/kg	U	1	12-MAR-10 18:08	per0312063a
	Perchlorate-O(18)			6.56	ug/kg		1	12-MAR-10 18:08	per0312063a

[^] 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
 he GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qtd

Acquired: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312063a

Date: 12-Mar-2010

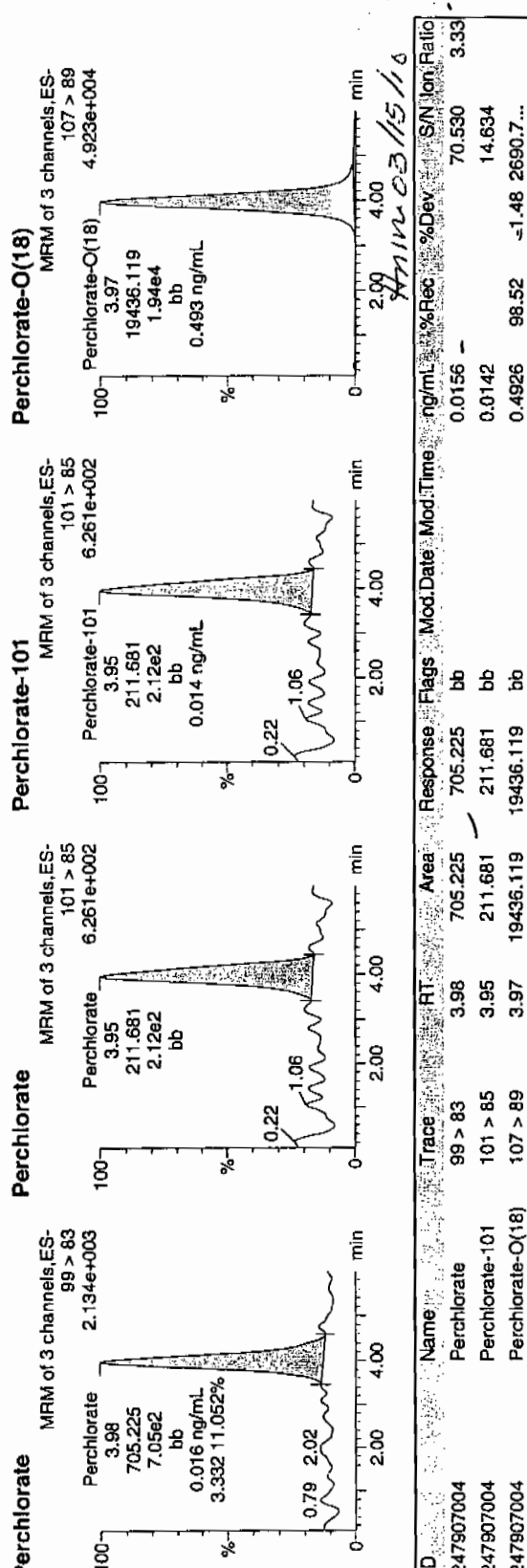
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03-13-10

LOW 1958912 / saved 111



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8025

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907005

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 68

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.737	2.95	0.737	ug/kg	U	1	12-MAR-10 18:17	per0312064a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:17	per0312064a
14797-73-0	Perchlorate-101	.737	2.95	0.737	ug/kg	U	1	12-MAR-10 18:17	per0312064a
	Perchlorate-O(18)			7.39	ug/kg		1	12-MAR-10 18:17	per0312064a

[^] 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

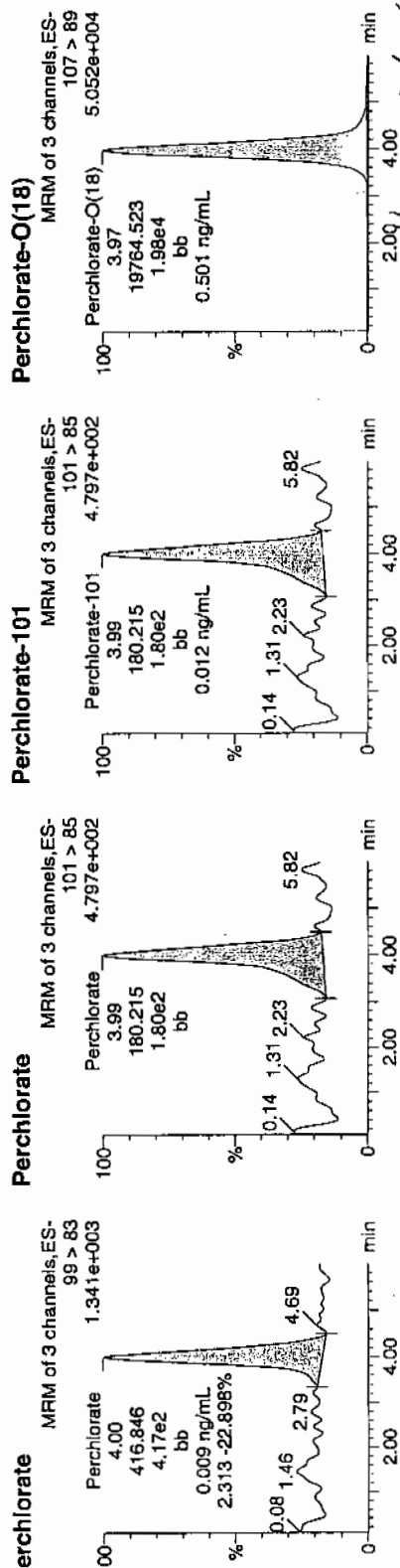
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 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312064a
 Date: 12-Mar-2010
 Time: 18:17:51
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 File: 2:2,D

03-13-10

12-19-09 12:30:20 111



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
47907005	Perchlorate	99 > 83	4.00	416.846	416.846	bb			0.0092			51.916	2.31
47907005	Perchlorate-101	101 > 85	3.99	180.215	180.215	bb			0.0121			29.744	
47907005	Perchlorate-O(18)	107 > 89	3.97	19764.523	19764.523	bb			0.5009	100.19	0.19	1861.3...	

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE15-10-8022
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907006
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 96

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.521	2.08	0.521	ug/kg	U	1	12-MAR-10 18:26	per0312065a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:26	per0312065a
14797-73-0	Perchlorate-101	.521	2.08	0.521	ug/kg	U	1	12-MAR-10 18:26	per0312065a
	Perchlorate-O(18)			5.27	ug/kg		1	12-MAR-10 18:26	per0312065a

[^] 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

ne GEL Group, LLC Analyst: Charles W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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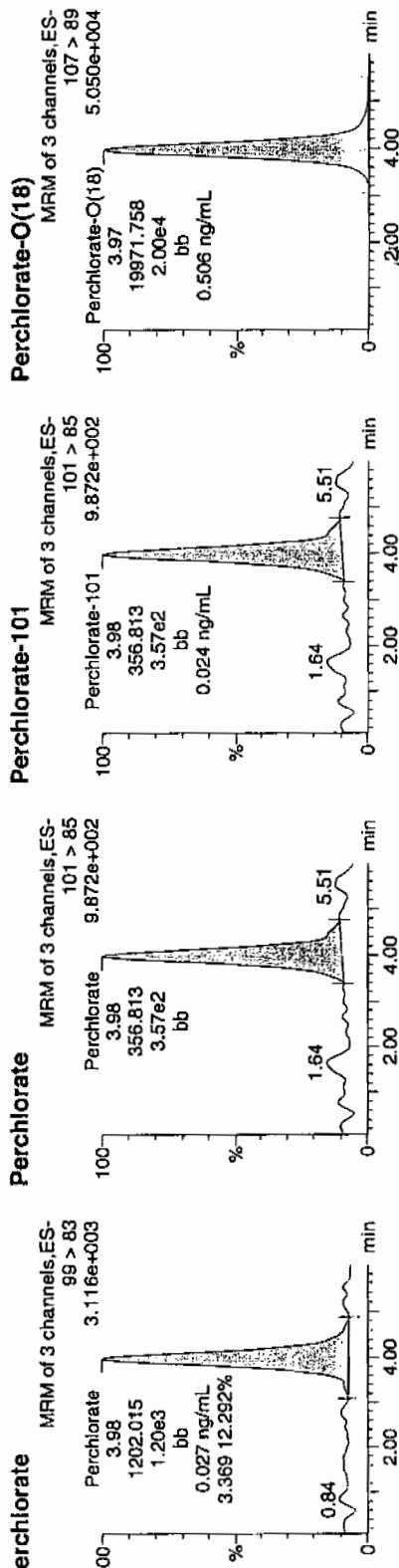
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ial: 2,2,E

03.13.10

19971758 | 5020 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.98	1202.015	1202.015	bb			0.0265			106.102	3.37
Perchlorate-101	101 > 85	3.98	356.813	356.813	bb			0.0240			65.925	
Perchlorate-O(18)	107 > 89	3.97	19971.758	19971.758	bb			0.5062	101.24	1.24	244.866	

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: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8014

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907007

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 94

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.532	2.13	0.532	ug/kg	U	1	12-MAR-10 18:35	per0312066a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:35	per0312066a
14797-73-0	Perchlorate-101	.532	2.13	0.532	ug/kg	U	1	12-MAR-10 18:35	per0312066a
	Perchlorate-O(18)			5.26	ug/kg		1	12-MAR-10 18:35	per0312066a

[^] 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

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ate: 12-Mar-2010

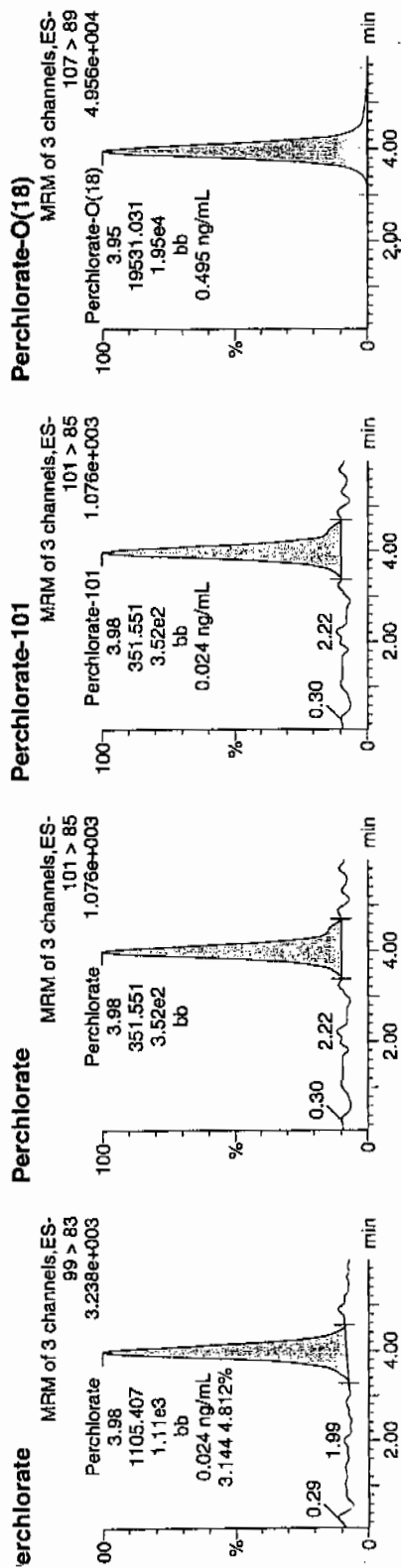
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ial: 2:2,F

03-13-10

1920 | 958412 | 5052011



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.98	1105.407	1105.407	bb			0.0244			74.738	3.14
Perchlorate-101	101 > 85	3.98	351.551	351.551	bb			0.0237			25.880	
Perchlorate-O(18)	107 > 89	3.95	19531.031	19531.031	bb			0.4950	99.00	-1.00	1796.4...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE15-10-8023
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907008
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.609	2.44	0.609	ug/kg	U	1	12-MAR-10 18:44	per0312067a
	Perchlorate Isotope Ratio						1	12-MAR-10 18:44	per0312067a
14797-73-0	Perchlorate-101	.609	2.44	0.609	ug/kg	U	1	12-MAR-10 18:44	per0312067a
	Perchlorate-O(18)			6.30	ug/kg		1	12-MAR-10 18:44	per0312067a

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

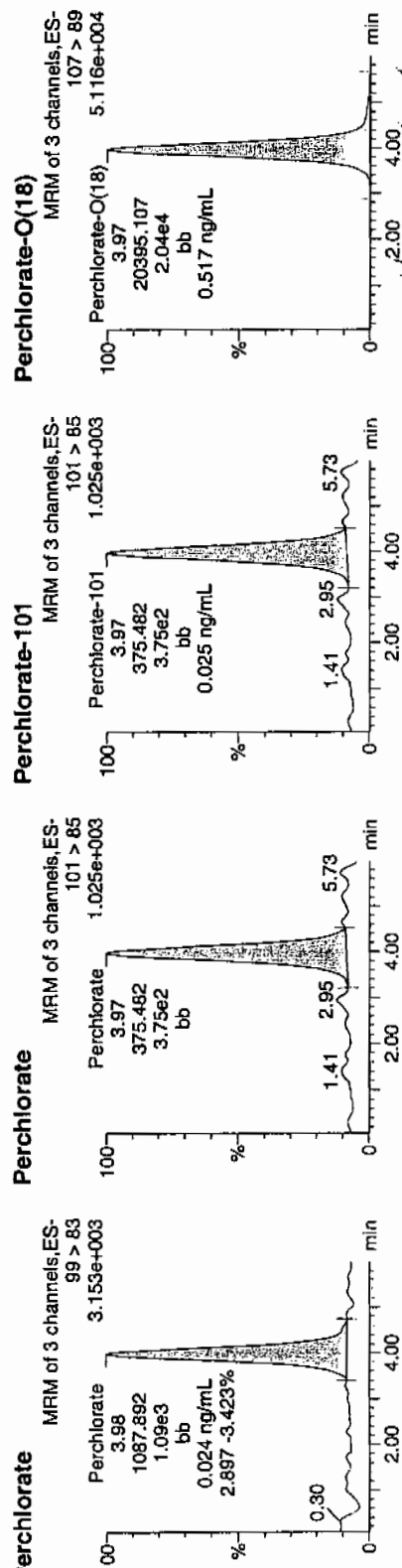
*Concentration =

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

Quantify Sample Report MassLynx 4.0 SP4 Page 67 of 151
 the GEL Group, LLC Analyst: Charfers W. Wilson
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ame: per0312067a
 ate: 12-Mar-2010
 ime: 18:44:55
 : 247907008
 lat: 2:3,A

03-13-10
 1000 1953912 | 3020 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.98	1087.892	1087.892	bb			0.0240	—		60.336	2.90
Perchlorate-101	101 > 85	3.97	375.482	375.482	bb			0.0253			36.304	
Perchlorate-O(18)	107 > 89	3.97	20395.107	20395.107	bb			0.5169	103.38	3.38	3739.8...	

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8020

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907009

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 93.9

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	.533	2.13	0.569	ug/kg	J	1	12-MAR-10 18:53	per0312068a
	Perchlorate Isotope Ratio			2.69			1	12-MAR-10 18:53	per0312068a
14797-73-0	Perchlorate-101	.533	2.13	0.646	ug/kg	J	1	12-MAR-10 18:53	per0312068a
	Perchlorate-O(18)			5.17	ug/kg		1	12-MAR-10 18:53	per0312068a

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

uantify Sample Report MassLynx 4.0 SP4
ne GEL Group, LLC Analyst: Charlers W. Wilson

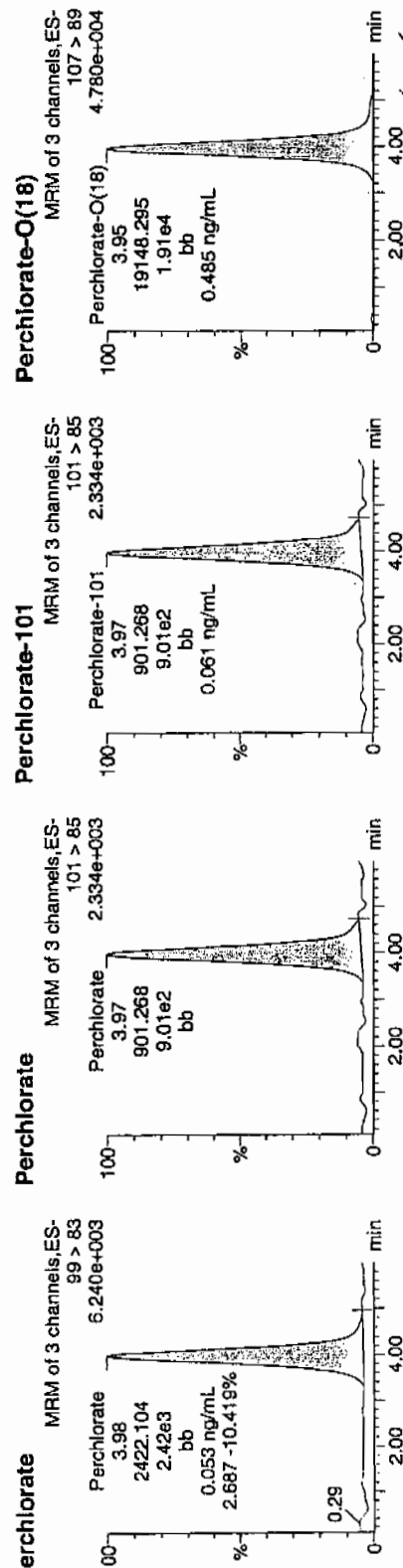
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rinted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

ame: per0312068a
ate: 12-Mar-2010
ime: 18:53:57
: 247907009
ial: 2:3,B

03-13-10

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D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
147907009	Perchlorate	99 > 83	3.98	2422.104	2422.104	bb			0.0534	-		179.977	2.69
147907009	Perchlorate-101	101 > 85	3.97	901.268	901.268	bb			0.0607	-		56.473	
147907009	Perchlorate-O(18)	107 > 89	3.95	19148.295	19148.295	bb			0.4853	97.06	-2.94	2663.7...	

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8018
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907010
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 79

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.632	2.53	0.632	ug/kg	U	1	12-MAR-10 19:30	per0312072a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:30	per0312072a
14797-73-0	Perchlorate-101	.632	2.53	0.632	ug/kg	U	1	12-MAR-10 19:30	per0312072a
	Perchlorate-O(18)			6.42	ug/kg		1	12-MAR-10 19:30	per0312072a

^ 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
 ie GEL Group, LLC Analyst: Charlers W. Wilson

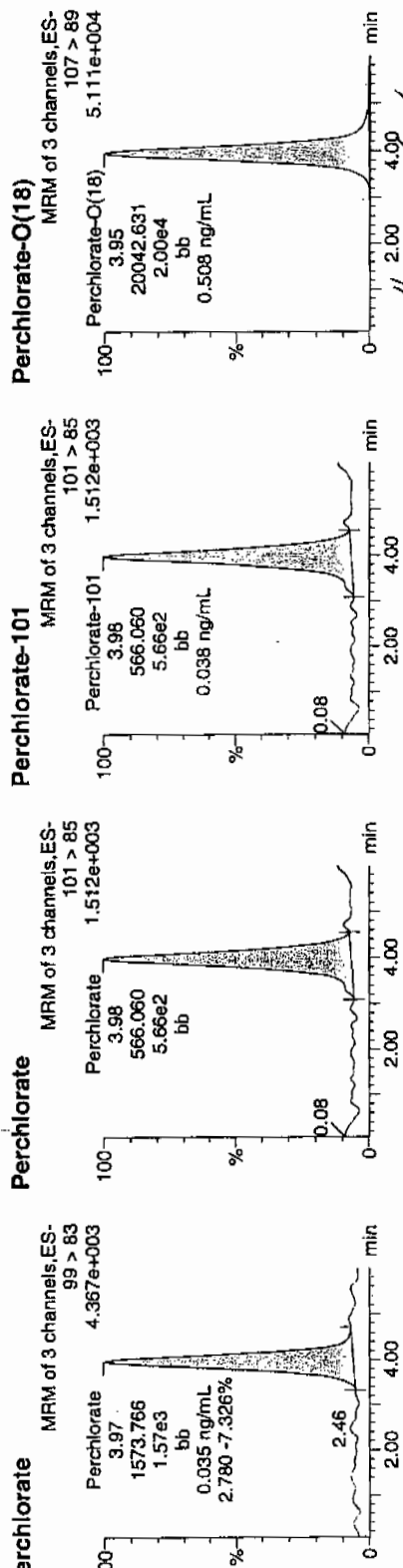
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 Inted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Time: per0312072a
 Date: 12-Mar-2010
 Time: 19:30:24
 ID: 247907010
 Ali: 2:3,C

03/13/10

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Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
47907010	Perchlorate	99 > 83	3.97	1573.766	bb			0.0347			107.472	2.78
47907010	Perchlorate-101	101 > 85	3.98	566.060	bb			0.0381			39.469	
47907010	Perchlorate-O(18)	107 > 89	3.95	20042.631	bb			0.5080	101.60	1.60	940.849	

Form I

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8015

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907011

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 63

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.798	3.19	0.798	ug/kg	U	1	12-MAR-10 19:39	per0312073a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:39	per0312073a
14797-73-0	Perchlorate-101	.798	3.19	0.798	ug/kg	U	1	12-MAR-10 19:39	per0312073a
	Perchlorate-O(18)			7.92	ug/kg		1	12-MAR-10 19:39	per0312073a

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

uantify Sample Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charliers W. Wilson

ataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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ate: 12-Mar-2010

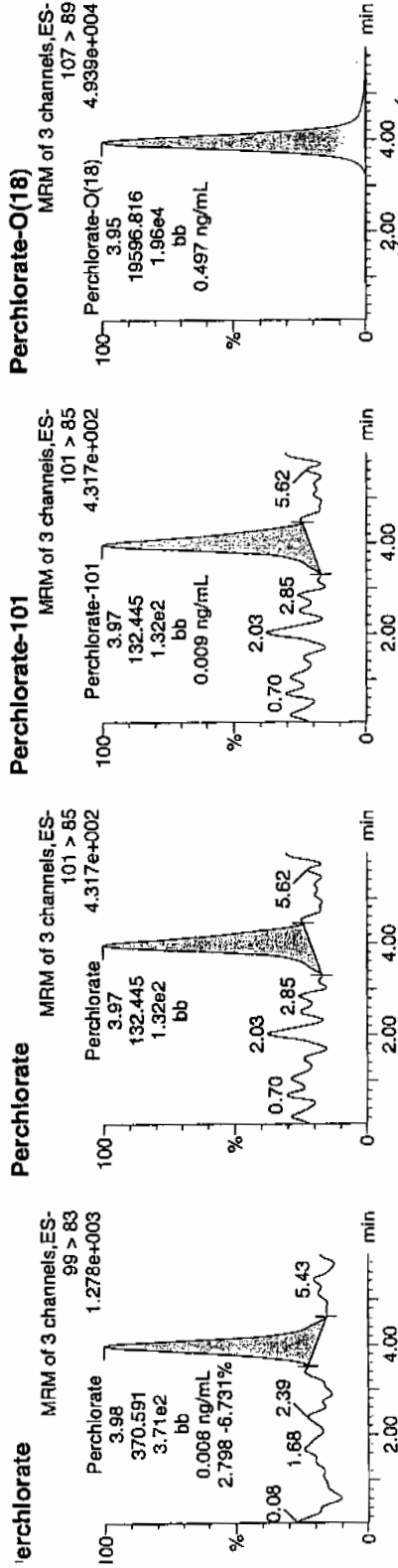
ime: 19:39:37

3: 247907011

ial: 2:3,D

03-13-10

15200 | 958412 | 5020 | 11



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
247907011	Perchlorate	99 > 83	3.98	370.591	370.591	bb			0.0082			37.033	2.80
247907011	Perchlorate-101	101 > 85	3.97	132.445	132.445	bb			0.0089			10.720	
247907011	Perchlorate-O(18)	107 > 89	3.95	19596.816	19596.816	bb			0.4967	99.34	-0.66	777.905	

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: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8021
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907012
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.582	2.33	0.582	ug/kg	U	1	12-MAR-10 19:48	per0312074a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:48	per0312074a
14797-73-0	Perchlorate-101	.582	2.33	0.582	ug/kg	U	1	12-MAR-10 19:48	per0312074a
	Perchlorate-O(18)			5.38	ug/kg		1	12-MAR-10 19:48	per0312074a

[^] 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

uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charliers W. Wilson

ataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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rinted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

ame: per0312074a

ate: 12-Mar-2010

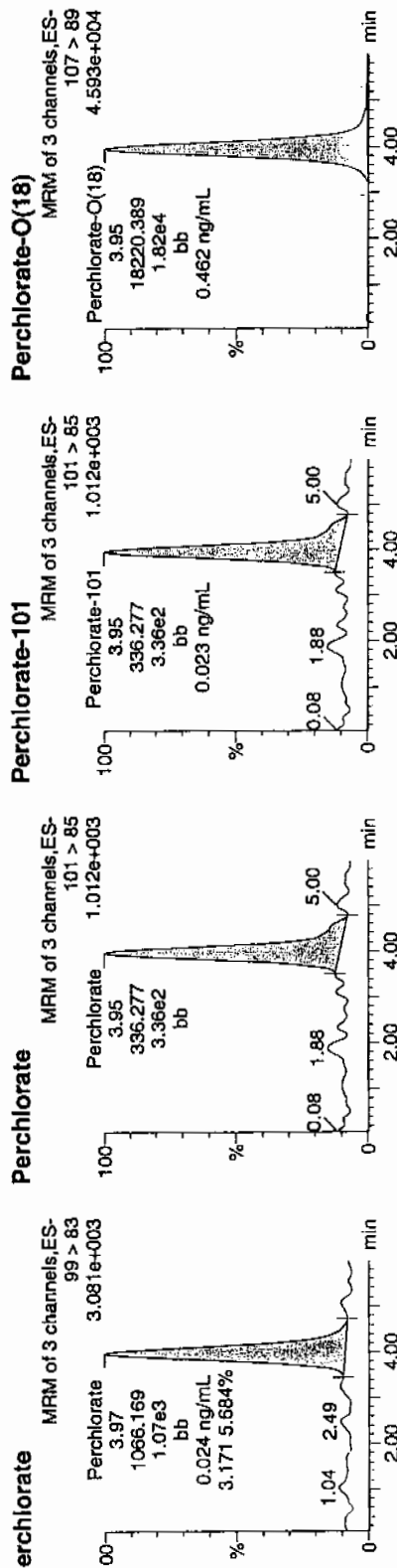
ime: 19:48:39

3: 247907012

ial: 2:3,E

03-13-10

152201958912/20070111



Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
47907012	Perchlorate	99 > 83	3.97	1066.169	bb			0.0235			79.734	3.17
47907012	Perchlorate-101	101 > 85	3.95	336.277	bb			0.0226			120.012	
47907012	Perchlorate-O(18)	107 > 89	3.95	18220.389	bb			0.4618	92.36	-7.64	682.435	

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8024

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907013

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.575	2.3	0.575	ug/kg	U	1	12-MAR-10 19:57	per0312075a
	Perchlorate Isotope Ratio						1	12-MAR-10 19:57	per0312075a
14797-73-0	Perchlorate-101	.575	2.3	0.575	ug/kg	U	1	12-MAR-10 19:57	per0312075a
	Perchlorate-O(18)			5.70	ug/kg		1	12-MAR-10 19:57	per0312075a

[^] 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\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312075a

Sample Date: 12-Mar-2010

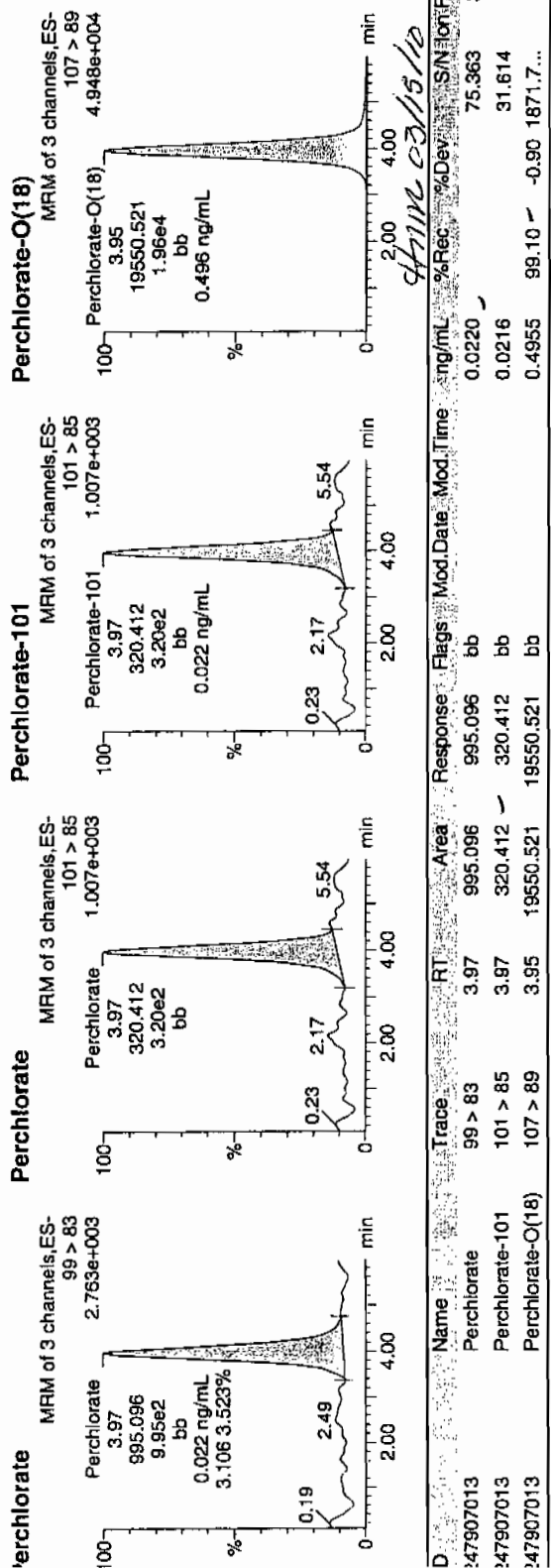
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Sample ID: 247907013

Sample Label: 2:3.F

03-13-10

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D	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
247907013	Perchlorate	99 > 83	3.97	995.096	995.096	bb			0.0220			75.363	3.11
247907013	Perchlorate-101	101 > 85	3.97	320.412	320.412	bb			0.0216			31.614	
247907013	Perchlorate-O(18)	107 > 89	3.95	19550.521	19550.521	bb			0.4955	99.10	-0.90	1871.7...	

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: 958909

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8016

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907014

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 90.6

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.552	ug/kg	U	1	12-MAR-10 20:06	per0312076a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:06	per0312076a
14797-73-0	Perchlorate-101	.552	2.21	0.552	ug/kg	U	1	12-MAR-10 20:06	per0312076a
	Perchlorate-O(18)			5.48	ug/kg		1	12-MAR-10 20:06	per0312076a

[^] 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

re GEL Group, LLC Analyst: Charlers W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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rinted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

ame: per0312076a

ate: 12-Mar-2010

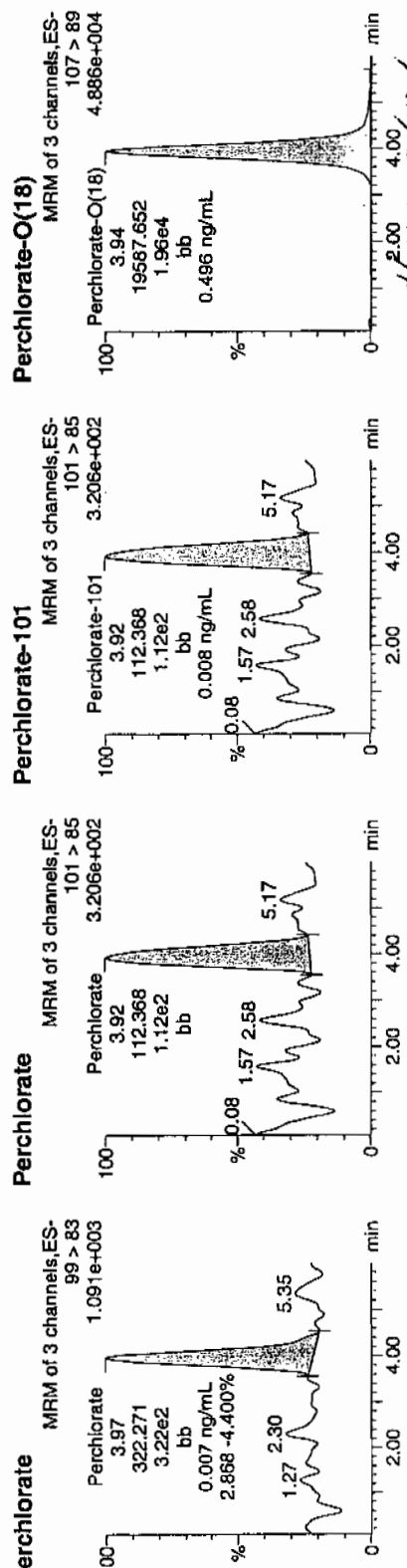
ime: 20:06:43

); 247907014

ial: 2:4,A

03-13-10

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Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
47907014	Perchlorate	99 > 83	3.97	322.271	bb			0.0071			27.784	2.87
47907014	Perchlorate-101	101 > 85	3.92	112.368	bb			0.0076			8.737	
47907014	Perchlorate-O(18)	107 > 89	3.94	19587.652	bb			0.4965	99.29	-0.71	2636.6...	

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 958909
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE15-10-8065
Date Received: 24-FEB-10
GEL Job No (SDG): 10-2013
GEL Sample ID: 247907015
Date Filtered: 09-MAR-10
Injection Volume (uL): 20
%Solids: 90.8

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.551	2.2	0.551	ug/kg	U	1	12-MAR-10 20:15	per0312077a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:15	per0312077a
14797-73-0	Perchlorate-101	.551	2.2	0.551	ug/kg	U	1	12-MAR-10 20:15	per0312077a
	Perchlorate-O(18)			5.43	ug/kg		1	12-MAR-10 20:15	per0312077a

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

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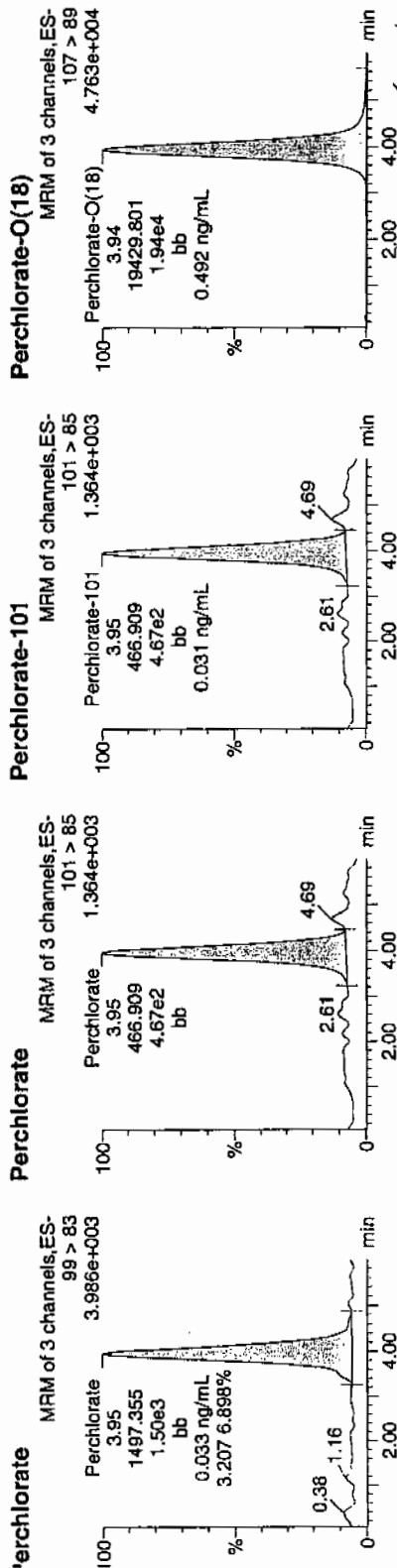
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Time: 20:15:46

ID: 247907015

File: 2:4,B

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D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
247907015	Perchlorate	99 > 83	3.95	1497.355	1497.355	bb			0.0330			31.236	3.21
247907015	Perchlorate-101	101 > 85	3.95	466.909	466.909	bb			0.0314			55.988	
247907015	Perchlorate-O(18)	107 > 89	3.94	19429.801	19429.801	bb			0.4925	98.49	-1.51	5314.3...	

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 258909
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8066
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 247907016
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 81

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	.619	2.48	0.619	ug/kg	U	1	12-MAR-10 20:24	per0312078a
	Perchlorate Isotope Ratio								
14797-73-0	Perchlorate-101	.619	2.48	0.619	ug/kg	U	1	12-MAR-10 20:24	per0312078a
	Perchlorate-O(18)			6.56	ug/kg		1	12-MAR-10 20:24	per0312078a

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

uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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ate: 12-Mar-2010

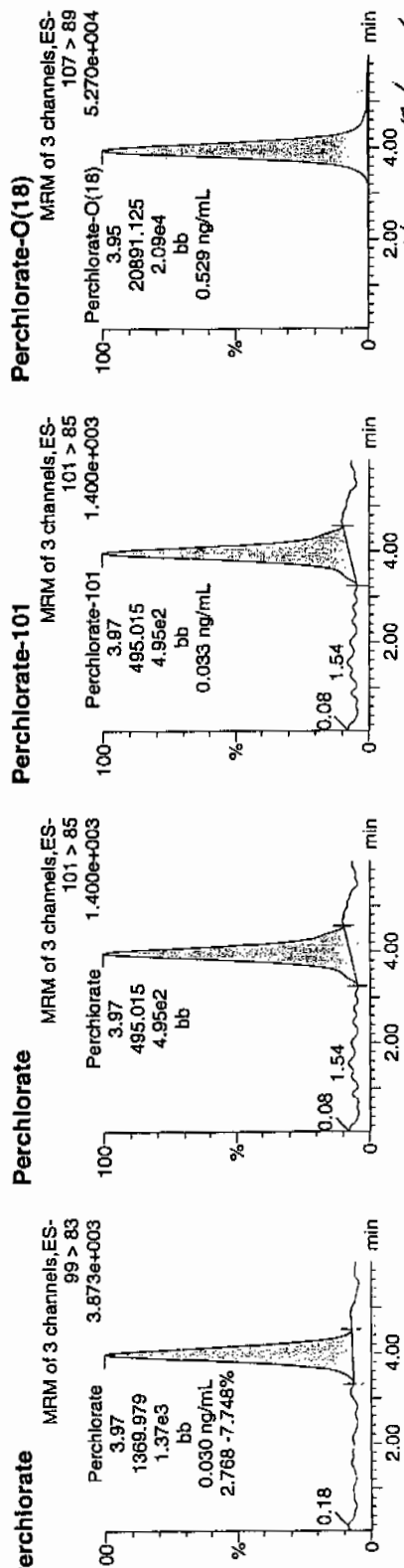
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03-13-10

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Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
47907016	Perchlorate	99 > 83	3.97	1369.979	bb			0.0302	-		102.004	2.77
47907016	Perchlorate-101	101 > 85	3.97	495.015	bb			0.0333	-		100.228	
47907016	Perchlorate-Q(18)	107 > 89	3.95	20891.125	bb			0.5295	105.90	~	5.90	2833.9...

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8033

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 247907017

Date Filtered: 09-MAR-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	.661	2.64	0.661	ug/kg	U	1	12-MAR-10 20:33	per0312079a
	Perchlorate Isotope Ratio						1	12-MAR-10 20:33	per0312079a
14797-73-0	Perchlorate-101	.661	2.64	0.661	ug/kg	U	1	12-MAR-10 20:33	per0312079a
	Perchlorate-O(18)			6.52	ug/kg		1	12-MAR-10 20:33	per0312079a

[^] 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

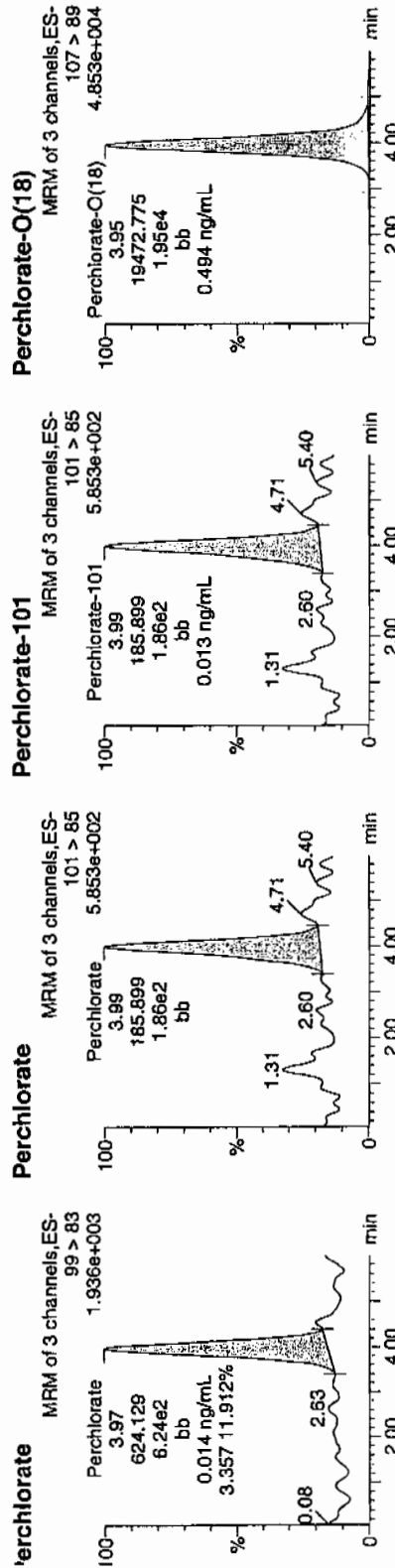
Quantify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Sample Name: per0312079a
 Date: 12-Mar-2010
 Time: 20:33:51
 Date: 247907017
 Time: 2:4,D

03-13-10

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D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN/ION Ratio
247907017	Perchlorate	99 > 83	3.97	624.129	624.129	bb			0.0138	-	32.536	3.36
247907017	Perchlorate-101	101 > 85	3.99	185.899	185.899	bb			0.0125		19.806	
247907017	Perchlorate-O(18)	107 > 89	3.95	19472.775	19472.775	bb			0.4935	98.71	-1.29	3117.3...

4/11/10 03/13/10

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2013

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 12-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: 45326.02
 Response Type: External Standard
 Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2013

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 12-MAR-10

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

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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14857.54

Response Type: External Standard

Curve Type: RF

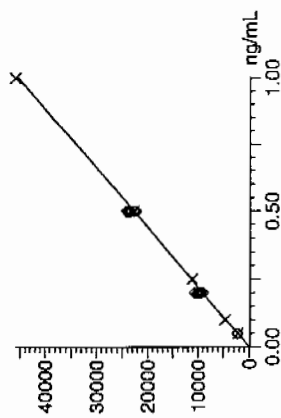
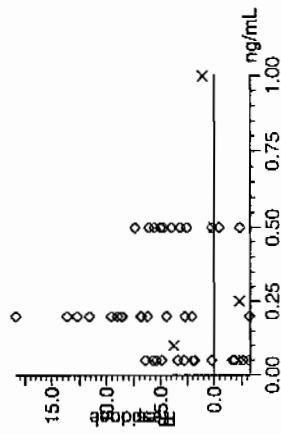
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

ast Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
rinted: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

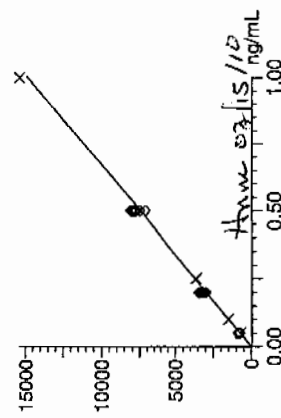
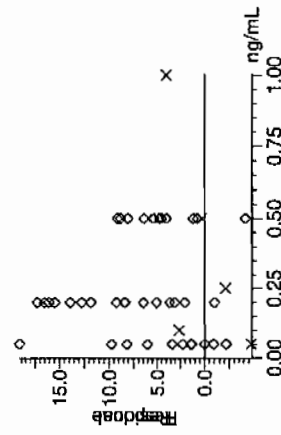
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alibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031210a.cdb 13 Mar 2010 15:16:16

ompond name: Perchlorate
esponse Factor: 45326
RF SD: 1197.82, % Relative SD: 2.64267
esponse type: External Std, Area
urve type: RF



03-13-10

ompond name: Perchlorate-101
esponse Factor: 14857.5
RF SD: 523.874, % Relative SD: 3.52598
esponse type: External Std, Area
urve type: RF

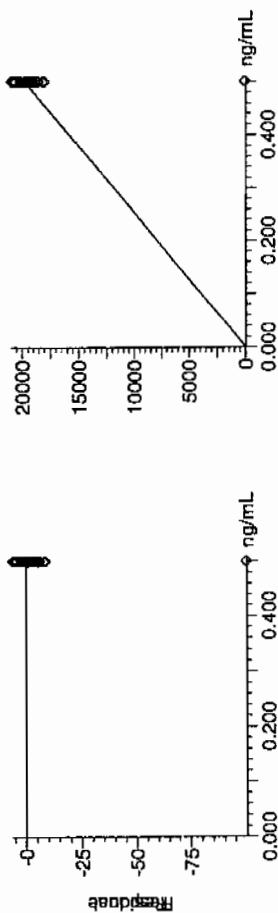


Quantify Calibration Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qid

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Compound name: Perchlorate-O(18)
 Response Factor: 39454.9
 RF SD: 939.963, % Relative SD: 2.38238
 Response type: External Std, Area
 Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.54	107.43	12-MAR-10 09:58	per0312009a
Perchlorate Isotope Ratio		3.01		12-MAR-10 09:58	per0312009a
Perchlorate-101	.5	.54	108.82	12-MAR-10 09:58	per0312009a

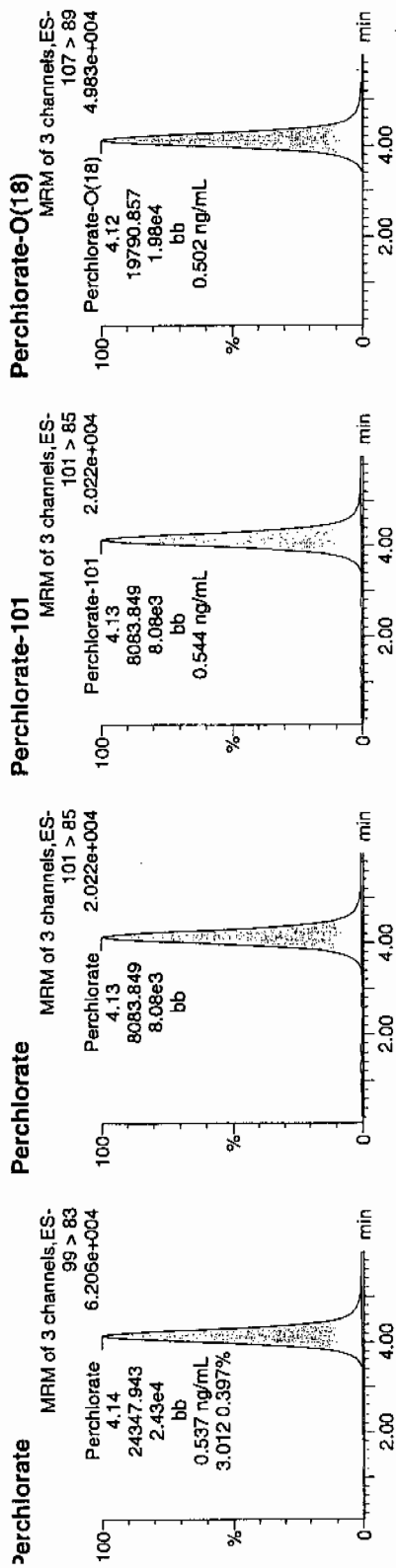
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312009a
Date: 12-Mar-2010
Time: 09:58:48
D: WCL100309-06ICV
Vial: 1:2,A

Pure
CWS
03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-06ICV	Perchlorate	99 > 83	4.14	24347.943	24347.943	bb			0.5372	107.43	7.43	1214.9...	3.01
WCL100309-06ICV	Perchlorate-101	101 > 85	4.13	8083.849	8083.849	bb			0.5441	108.82	8.82	455.473	
WCL100309-06ICV	Perchlorate-O(18)	107 > 89	4.12	19790.857	19790.857	bb			0.5016	100.32	0.32	3277.8...	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	105.63	12-MAR-10 11:29	per0312019a
Perchlorate Isotope Ratio		2.95		12-MAR-10 11:29	per0312019a
Perchlorate-101	.5	.55	109.16	12-MAR-10 11:29	per0312019a
Perchlorate	.5	.52	103.26	12-MAR-10 13:26	per0312032a
Perchlorate Isotope Ratio		3.01		12-MAR-10 13:26	per0312032a
Perchlorate-101	.5	.52	104.71	12-MAR-10 13:26	per0312032a
Perchlorate	.5	.49	97.71	12-MAR-10 15:24	per0312045a
Perchlorate Isotope Ratio		3.11		12-MAR-10 15:24	per0312045a
Perchlorate-101	.5	.48	95.84	12-MAR-10 15:24	per0312045a
Perchlorate	.5	.5	100.21	12-MAR-10 17:04	per0312056a
Perchlorate Isotope Ratio		3.03		12-MAR-10 17:04	per0312056a
Perchlorate-101	.5	.5	100.75	12-MAR-10 17:04	per0312056a
Perchlorate	.5	.53	105.05	12-MAR-10 19:03	per0312069a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		2.97		12-MAR-10 19:03	per0312069a
Perchlorate-101	.5	.54	108.06	12-MAR-10 19:03	per0312069a
Perchlorate	.5	.51	102.62	12-MAR-10 20:51	per0312081a
Perchlorate Isotope Ratio		2.94		12-MAR-10 20:51	per0312081a
Perchlorate-101	.5	.53	106.45	12-MAR-10 20:51	per0312081a

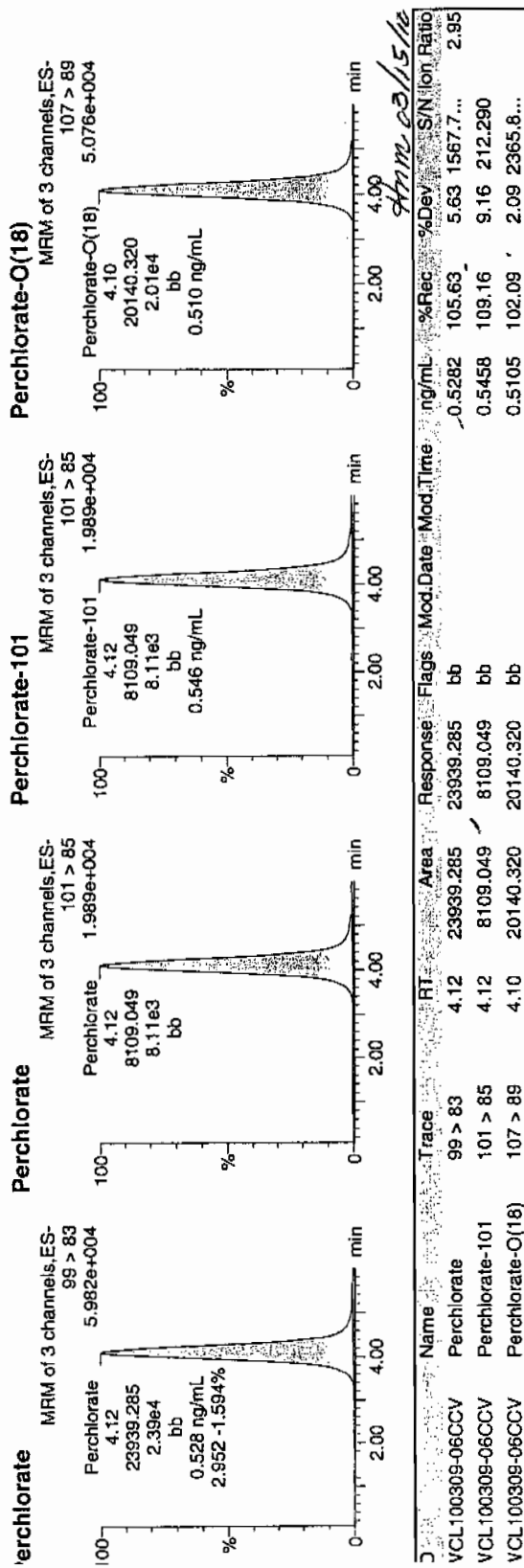
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312019a
Date: 12-Mar-2010
Time: 11:29:11
ID: WCL100309-06CCV
Tail: 1:2,A

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03-13-10



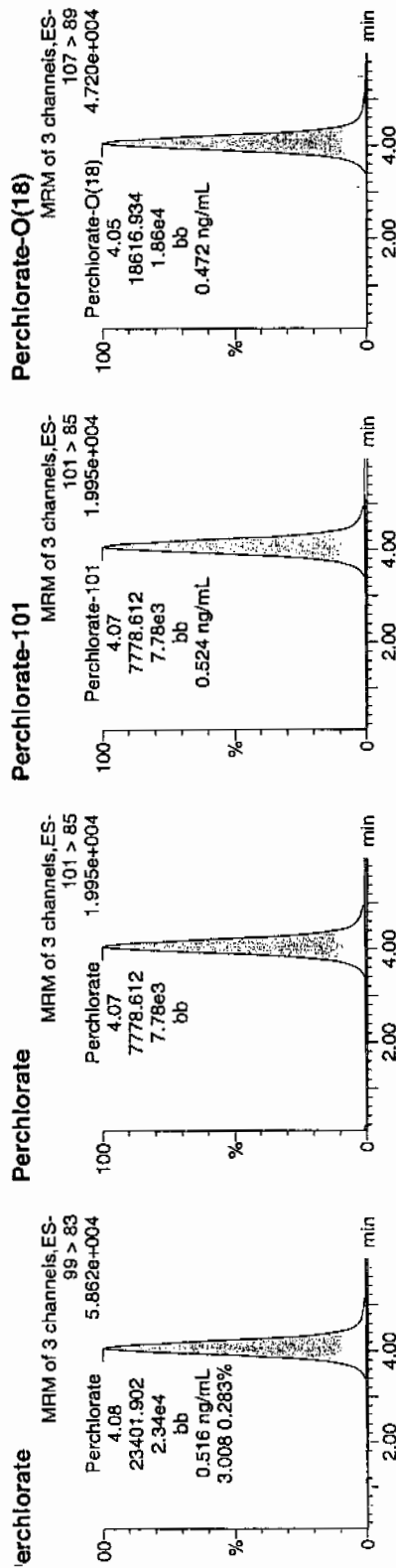
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample: per0312032a
Date: 12-Mar-2010
Time: 13:26:47
File: WCL100309-06CCV
Label: 1:2,A

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and
03-13-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100309-06CCV	Perchlorate	99 > 83	4.08	23401.902				0.5163	103.26	3.26	1247.5...	3.01
/CL100309-06CCV	Perchlorate-101	101 > 85	4.07	7778.612	bb			0.5235	104.71	4.71	538.170	
/CL100309-06CCV	Perchlorate-O(18)	107 > 89	4.05	18616.934	bb			0.4719	94.37	-5.63	2197.7...	

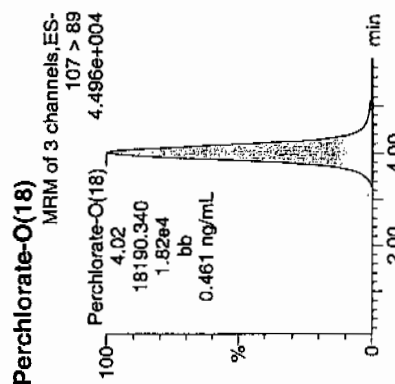
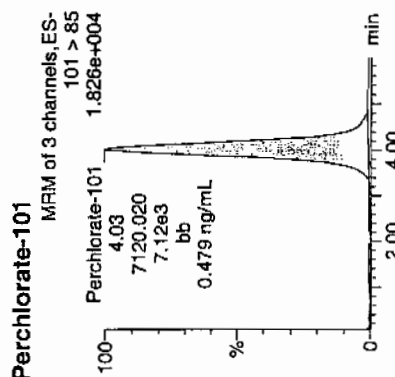
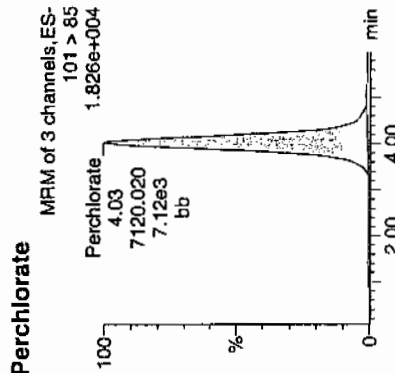
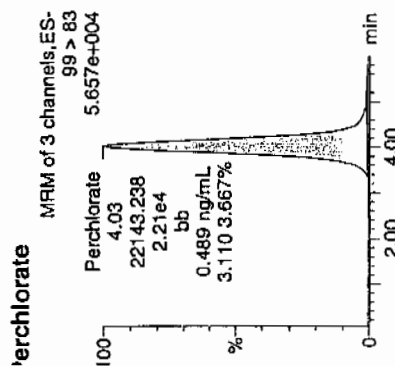
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qtd

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Sample Name: per0312045a
Date: 12-Mar-2010
Time: 15:24:27
File: WCL100309-06CCV
File: 1:2,A

Per
03-13-10



Name	Trace	RT	Area	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100309-06CCV	Perchlorate	99 > 83	4.03	22143.238	bb			0.4885	97.71	-2.29	1677.5...	3.11
VCL100309-06CCV	Perchlorate-101	101 > 85	4.03	7120.020	bb			0.4792	95.84	-4.16	212.969	
VCL100309-06CCV	Perchlorate-O(18)	107 > 89	4.02	18190.340	bb			0.4610	92.21	-7.79	4486.8...	

4/11/10 03:15/10

Quantify Sample Report MassLynx 4.0 SP4

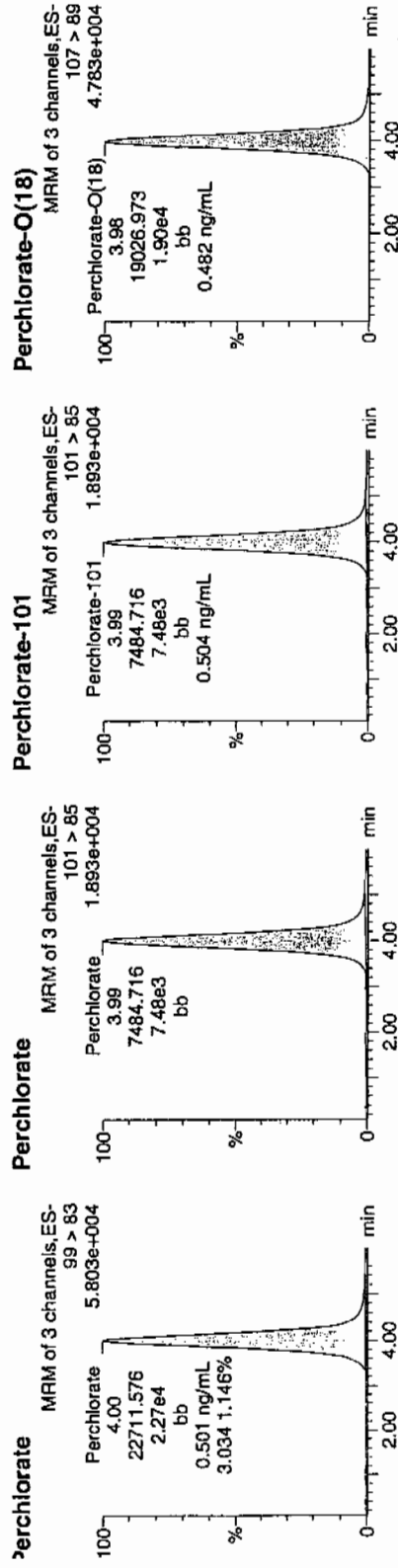
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qtd

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 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312056a
 Date: 12-Mar-2010
 Time: 17:04:05
 D: WCL100309-06CCV
 /lal: 1:2,A

Pure
 03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
	Perchlorate	99 > 83	4.00	22711.576	22711.576	bb			0.5011	100.21	0.21	2057.8...	3.03
	Perchlorate-101	101 > 85	3.99	7484.716	7484.716	bb			0.5038	100.75	0.75	1900.0...	
	Perchlorate-O(18)	107 > 89	3.98	19026.973	19026.973	bb			0.4822	96.45	-3.55	718.261	

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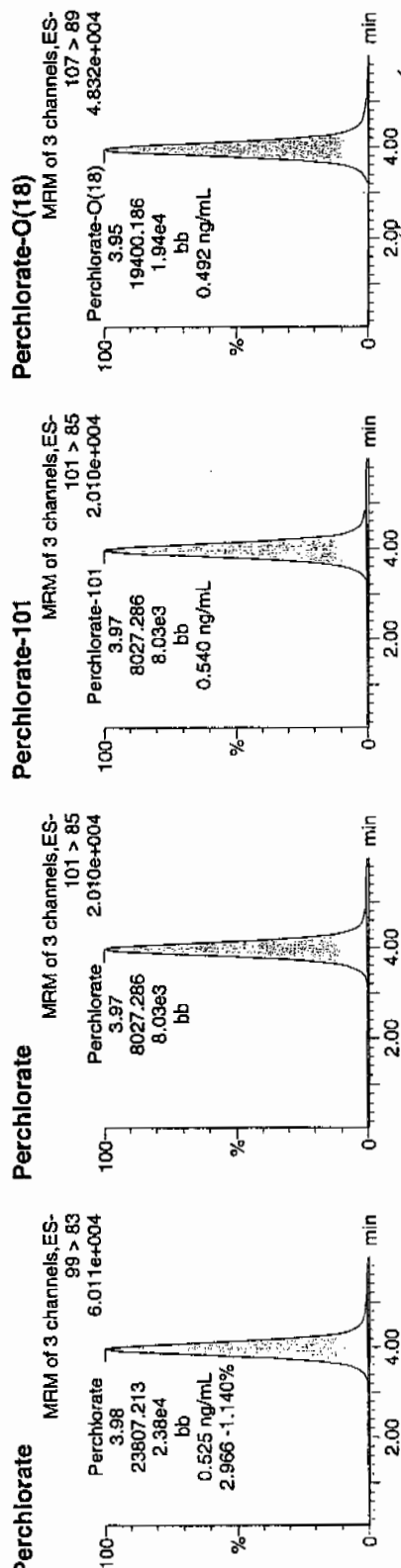
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312069a
Date: 12-Mar-2010
Time: 19:03:00
D: WCL100309-06CCV
/ial: 1:2,A

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03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100309-06CCV	Perchlorate	99 > 83	3.98	23807.213	23807.213	bb			0.5252	105.05	5.05	3447.0...	2.97
VCL100309-06CCV	Perchlorate-101	101 > 85	3.97	8027.286	8027.286	bb			0.5403	108.06	8.06	1436.7...	
VCL100309-06CCV	Perchlorate-O(18)	107 > 89	3.95	19400.186	19400.186	bb			0.4917	98.34	-1.66	907.268	

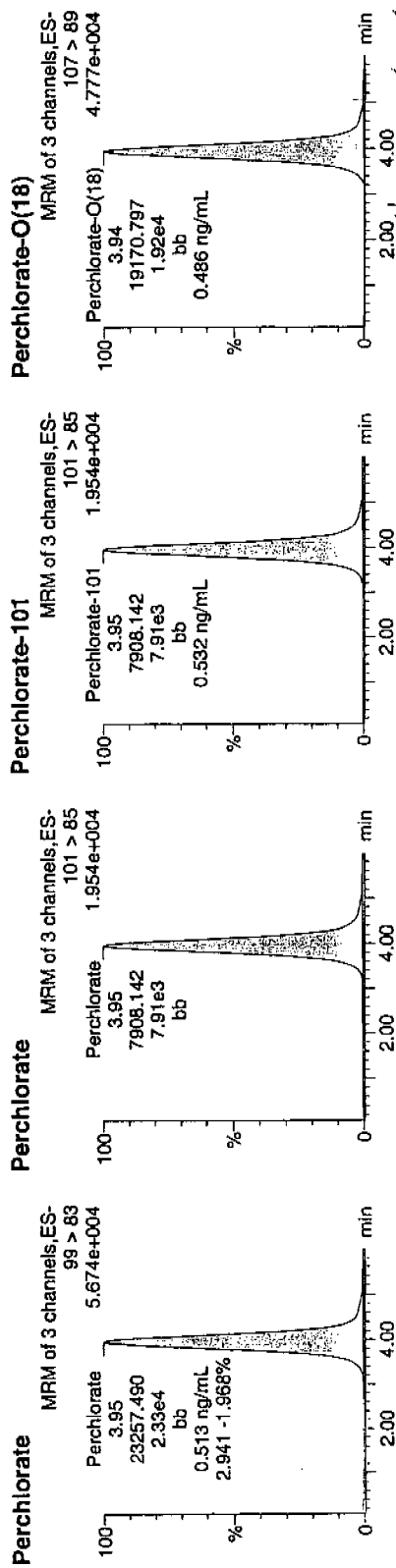
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312081a
Date: 12-Mar-2010
Time: 20:51:55
ID: WCL100309-06CCV
Vial: 1:2,A

Pure and 03-13-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	3.95	23257.490	23257.490	bb			0.5131	102.62	2.62	2769.8...	2.94
WCL100309-06CCV	Perchlorate-101	101 > 85	3.95	7908.142	7908.142	bb			0.5323	106.45	6.45	654.155	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	3.94	19170.797	19170.797	bb			0.4859	97.18	-2.82	2466.2...	

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Perchlorate MDL Verification

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2013

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	105.72	12-MAR-10 10:16	per0312011a
Perchlorate Isotope Ratio		2.98		12-MAR-10 10:16	per0312011a
Perchlorate-101	.05	.05	108.14	12-MAR-10 10:16	per0312011a
Perchlorate	.05	.05	102.86	12-MAR-10 11:47	per0312021a
Perchlorate Isotope Ratio		2.86		12-MAR-10 11:47	per0312021a
Perchlorate-101	.05	.05	109.7	12-MAR-10 11:47	per0312021a
Perchlorate	.05	.05	105.42	12-MAR-10 13:44	per0312034a
Perchlorate Isotope Ratio		3.29		12-MAR-10 13:44	per0312034a
Perchlorate-101	.05	.05	97.79	12-MAR-10 13:44	per0312034a
Perchlorate	.05	.05	100.2	12-MAR-10 15:42	per0312047a
Perchlorate Isotope Ratio		3.08		12-MAR-10 15:42	per0312047a

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2013

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.05	99.1	12-MAR-10 15:42	per0312047a
Perchlorate	.05	.05	106.42	12-MAR-10 17:22	per0312058a
Perchlorate Isotope Ratio		3.2		12-MAR-10 17:22	per0312058a
Perchlorate-101	.05	.05	101.41	12-MAR-10 17:22	per0312058a
Perchlorate	.05	.05	102.04	12-MAR-10 19:21	per0312071a
Perchlorate Isotope Ratio		3.11		12-MAR-10 19:21	per0312071a
Perchlorate-101	.05	.05	100	12-MAR-10 19:21	per0312071a
Perchlorate	.05	.05	103.42	12-MAR-10 21:10	per0312083a
Perchlorate Isotope Ratio		2.98		12-MAR-10 21:10	per0312083a
Perchlorate-101	.05	.05	106.02	12-MAR-10 21:10	per0312083a

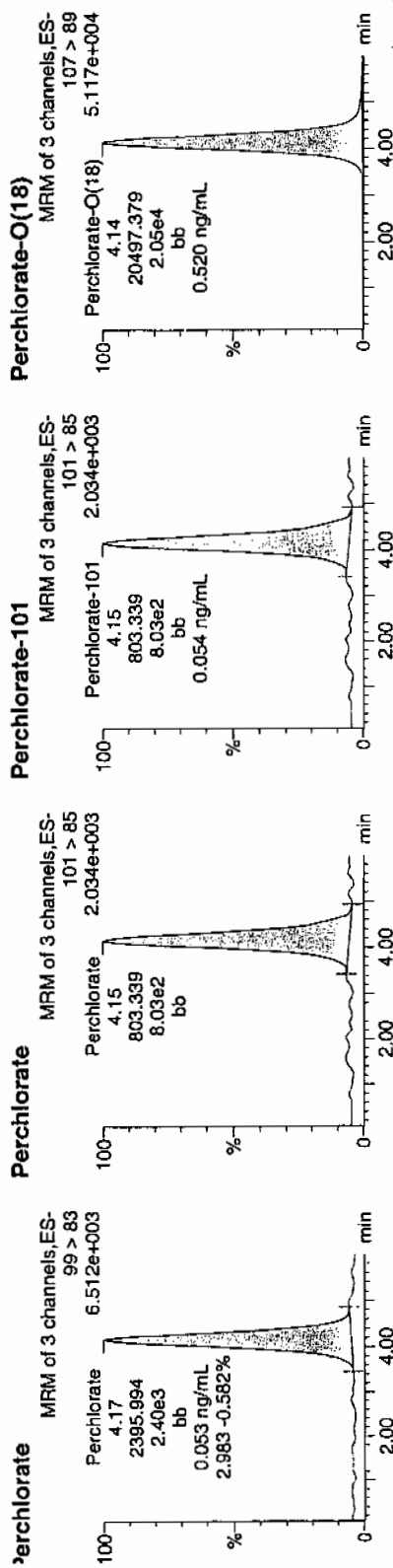
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312011a
Date: 12-Mar-2010
Time: 10:16:53
D: WCL100309-07CRI
/fil: 1;2,B

Per
03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100309-07CRI	Perchlorate	99 > 83	4.17	2395.994	2395.994	bb			0.0529	105.72	5.72	202.559	2.98
VCL100309-07CRI	Perchlorate-101	101 > 85	4.15	803.339	803.339	bb			0.0541	108.14	8.14	155.092	
VCL100309-07CRI	Perchlorate-O(18)	107 > 89	4.14	20497.379	20497.379	bb			0.5195	103.90	3.90	2251.1...	

4.14 min 0.3/1.5/1.0

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312021a

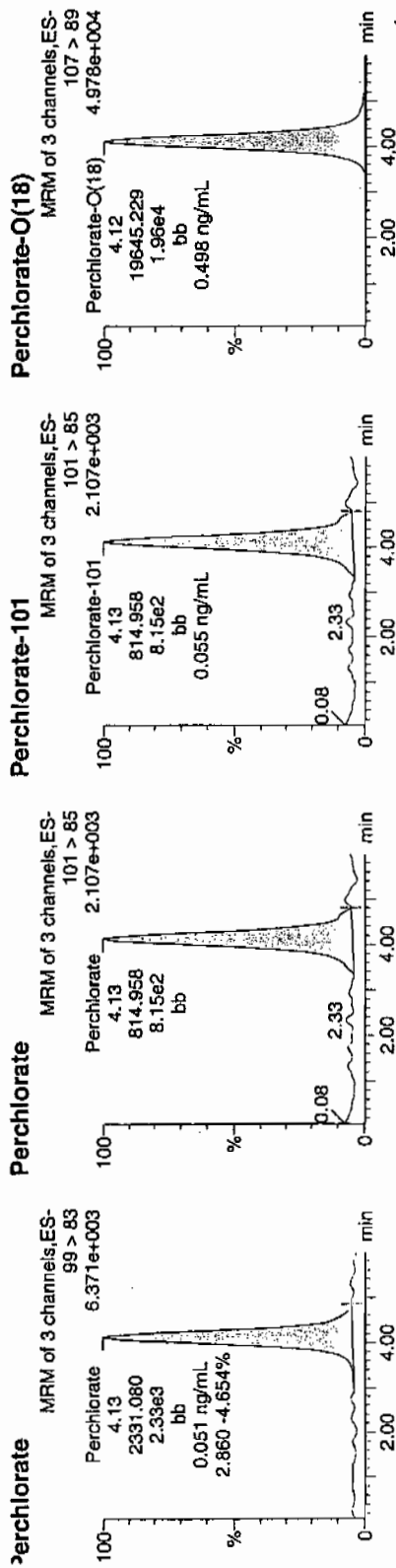
Date: 12-Mar-2010

Time: 11:47:17

D: WCL100309-07CRI

/ial: 1:2,B

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and
03-13-10*



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
	WCL100309-07CRI	Perchlorate	99 > 83	4.13	2331.080	2331.080	bb		-0.0514	102.86	2.86	124.197	2.86
	WCL100309-07CRI	Perchlorate-101	101 > 85	4.13	814.958	814.958	bb		0.0549	109.70	9.70	50.762	
	WCL100309-07CRI	Perchlorate-O(18)	107 > 89	4.12	19645.229	19645.229	bb		0.4979	99.58	-0.42	1086.1...	

done 03/13/10

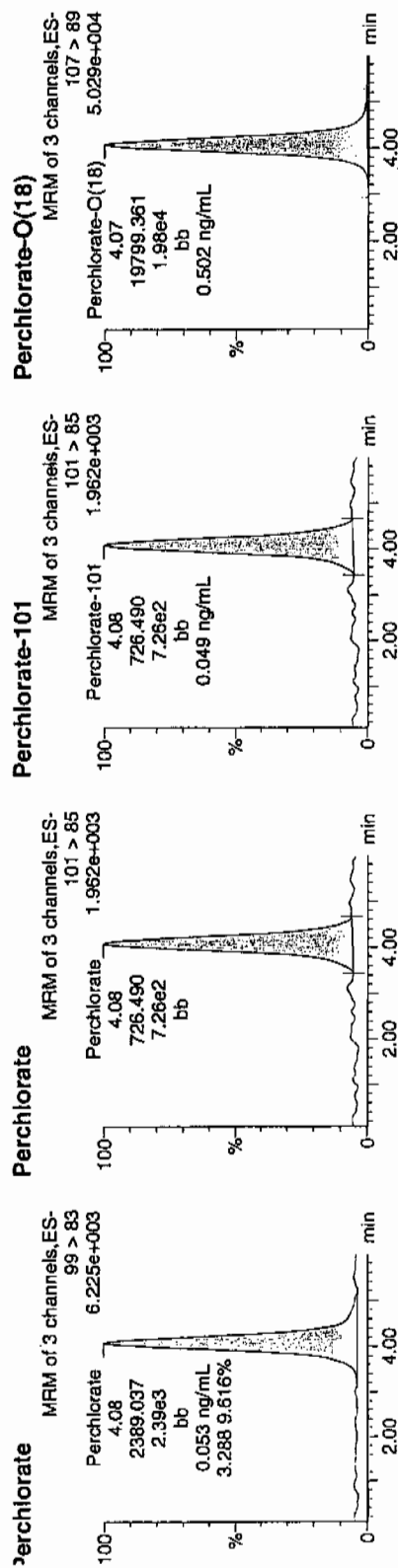
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312034a
Date: 12-Mar-2010
Time: 13:44:52
D: WCL100309-07CRI
/lal: 1;2,B

03.13.10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	4.08	2389.037	bb			0.0527	105.42	5.42	201.009	3.29
WCL100309-07CRI	Perchlorate-101	101 > 85	4.08	726.490	bb			0.0489	97.79	-2.21	50.323	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	4.07	19799.361	bb			0.5018	100.36	-0.36	2581.8...	

4/13/10

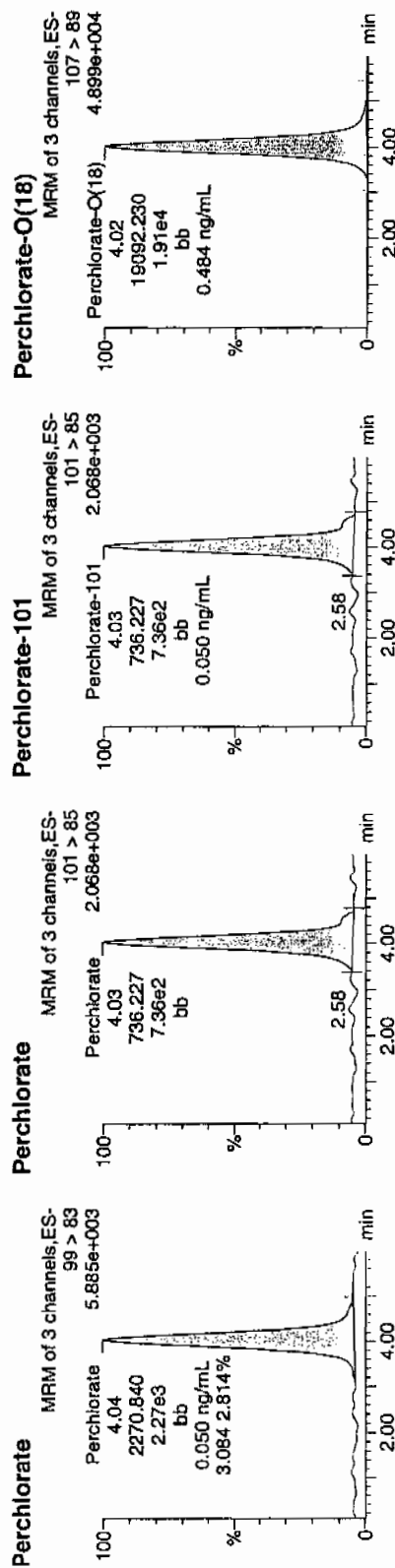
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312047a
Date: 12-Mar-2010
Time: 15:42:33
ID: WCL100309-07CRI
Vial: 1:2,B

*Perp
4.02
03-13-10*



	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
0	NCL100309-07CRI	Perchlorate	99 > 83	4.04	2270.840	bb			0.0501	100.20	0.20	256.106	3.08
	NCL100309-07CRI	Perchlorate-101	101 > 85	4.03	736.227	bb			0.0496	99.10	-0.90	60.589	
	NCL100309-07CRI	Perchlorate-O(18)	107 > 89	4.02	19092.230	bb			0.4839	96.78	-3.22	4031.9...	

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

Quantify Sample Report MassLynx 4.0 SP4

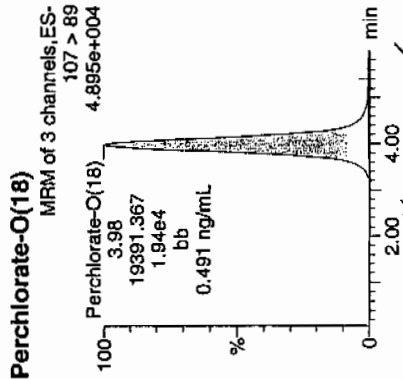
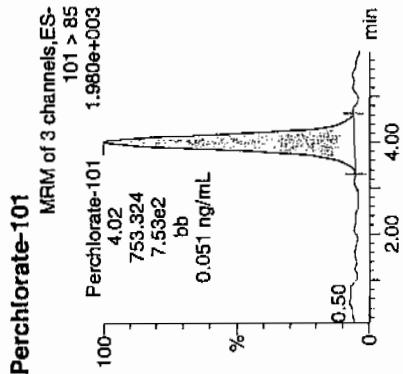
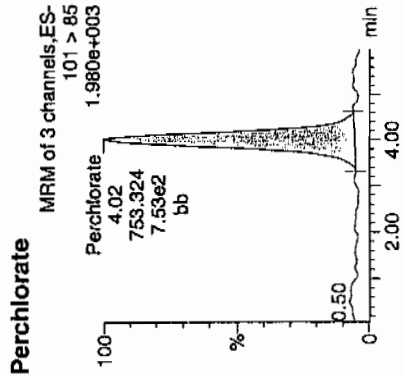
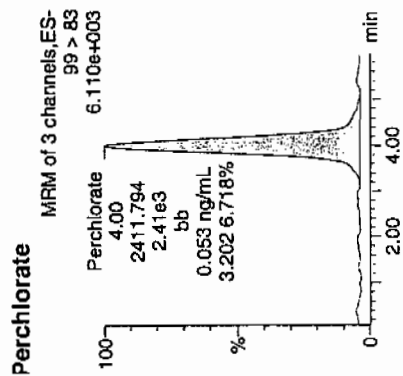
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312058a
Date: 12-Mar-2010
Time: 17:22:39
ID: WCL100309-07CRI
Vial: 1:2,B

Per
and
03-13-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	4.00	2411.794	2411.794	bb			0.0532	106.42	6.42	408.202	3.20
WCL100309-07CRI	Perchlorate-101	101 > 85	4.02	753.324	753.324	bb			0.0507	101.41	1.41	51.583	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	3.98	19391.367	19391.367	bb			0.4915	98.30	-1.70	8334.2...	

4/15/10

Quantify Sample Report MassLynx 4.0 SP4

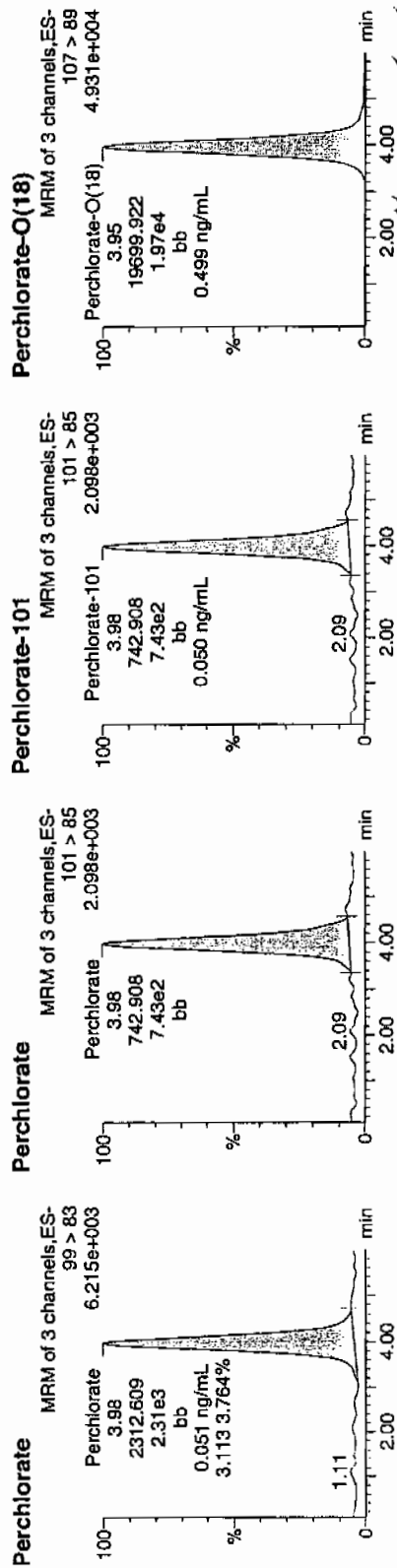
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
 Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312071a
 Date: 12-Mar-2010
 Time: 19:21:20
 ID: WCL100309-07CRI
 Vial: 1:2,B

Per
was
03-13-10



ID	Name	Trace	RT	Area	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	3.98	2312.609	2312.609	bb			0.0510	102.04	2.04	213.038	3.11
WCL100309-07CRI	Perchlorate-101	101 > 85	3.98	742.908	742.908	bb			0.0500	100.00	0.00	141.781	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	3.95	19699.922	19699.922	bb			0.4993	99.86	-0.14	3037.8...	

Amix 03/15/10

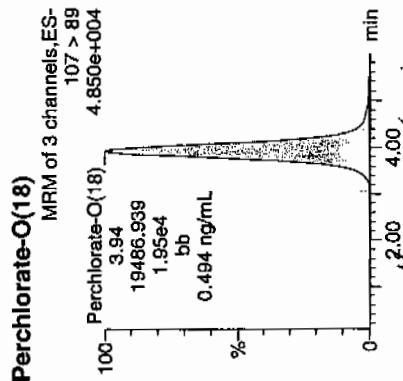
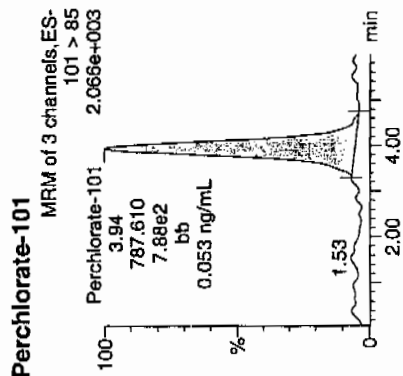
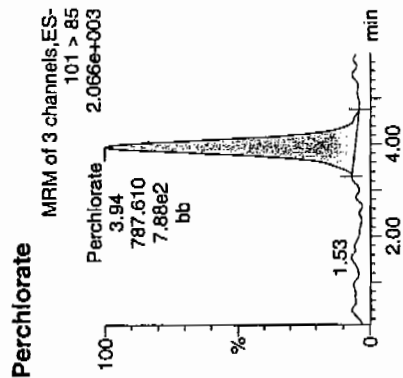
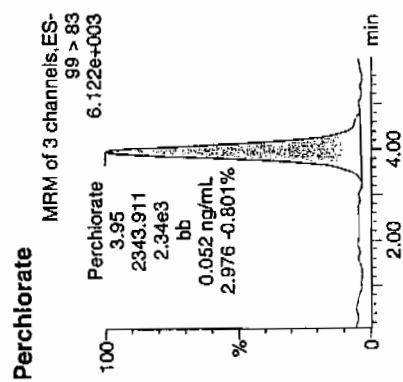
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312083a
Date: 12-Mar-2010
Time: 21:10:15
ID: WCL100309-07CRI
Vial: 1:2,B

Pure and
03-13-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
	Perchlorate	99 > 83	3.95	2343.911	2343.911	bb			0.0517	103.42	3.42	208.734	2.98
	Perchlorate-101	101 > 85	3.94	787.610	787.610	bb			0.0530	106.02	6.02	111.527	
	Perchlorate-O(18)	107 > 89	3.94	19486.939	19486.939	bb			0.4939	98.78	-1.22	1671.3...	

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: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. MB
 Date Received: 09-MAR-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 1202056498
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	12-MAR-10 16:27	per0312052a
	Perchlorate Isotope Ratio						1	12-MAR-10 16:27	per0312052a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	12-MAR-10 16:27	per0312052a
	Perchlorate-O(18)			4.61	ug/kg		1	12-MAR-10 16:27	per0312052a

[^] 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\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312052a

Date: 12-Mar-2010

Time: 16:27:47

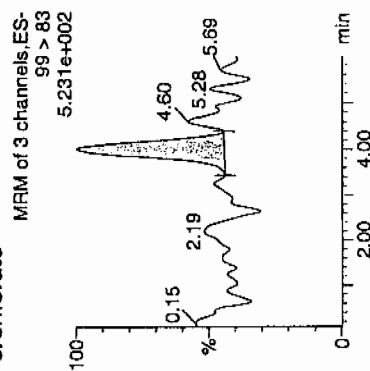
D: 1202056498

File: 2:1,A

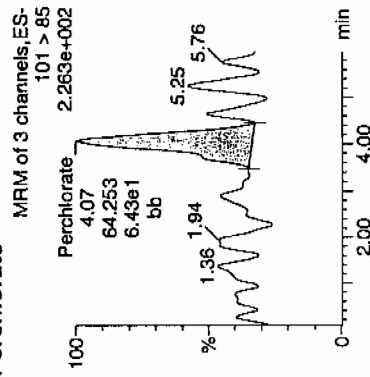
03-13-10

1202056498 | 5020 | 100 | 11

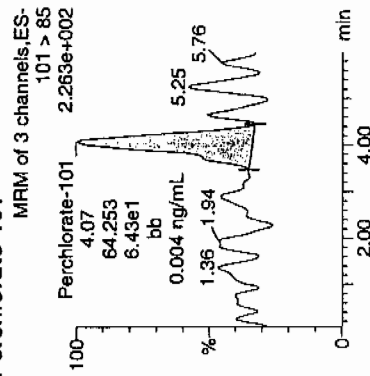
Perchlorate



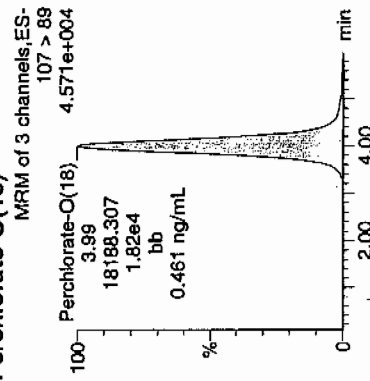
Perchlorate



Perchlorate-101



Perchlorate-O(18)



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056498	Perchlorate	99 > 83	4.02	113.134	113.134	bb			0.0025			10.006	1.76
1202056498	Perchlorate-101	101 > 85	4.07	64.253	64.253	bb			0.0043			13.912	
1202056498	Perchlorate-O(18)	107 > 89	3.99	18188.307	18188.307	bb			0.4610	92.20	-7.80	2805.7...	

0.0025
0.0043
0.4610

11/11/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958909

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

LCS

Date Received: 09-MAR-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 1202056499

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.94	ug/kg	J	1	12-MAR-10 16:37	per0312053a
	Perchlorate Isotope Ratio			2.98			1	12-MAR-10 16:37	per0312053a
14797-73-0	Perchlorate-101	.5	2	1.98	ug/kg	J	1	12-MAR-10 16:37	per0312053a
	Perchlorate-O(18)			4.78	ug/kg		1	12-MAR-10 16:37	per0312053a

[^] 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

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312053a

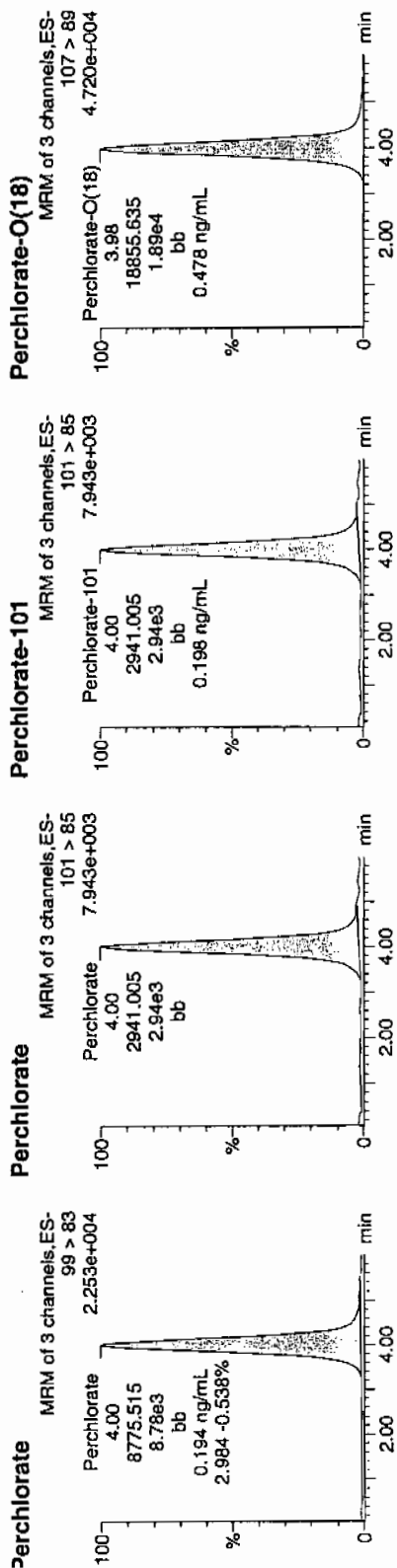
Date: 12-Mar-2010

Time: 16:37:00

D: 1202056499

Vial: 2:1,B

WVU 1953912 | 3000 11 | ves/
03-13-10
Hmw 3/15/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056499	Perchlorate	99 > 83	4.00	8775.515	8775.515	bb			0.1936	96.80	-3.20	621.182	2.98
1202056499	Perchlorate-101	101 > 85	4.00	2941.005	2941.005	bb			0.1979	98.97	-1.03	177.064	
1202056499	Perchlorate-O(18)	107 > 89	3.98	18855.635	18855.635	bb			0.4779	95.58	-4.42	2645.2...	

$$\frac{8775.515}{45326} = 0.1936$$

Hmw 3/15/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958902

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8013MS

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013

GEL Sample ID: 1202056500

Date Filtered: 09-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.638	2.55	2.85	ug/kg		1	12-MAR-10 17:40	per0312060a
	Perchlorate Isotope Ratio			2.95			1	12-MAR-10 17:40	per0312060a
14797-73-0	Perchlorate-101	.638	2.55	2.95	ug/kg		1	12-MAR-10 17:40	per0312060a
	Perchlorate-Q(18)			6.31	ug/kg		1	12-MAR-10 17:40	per0312060a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

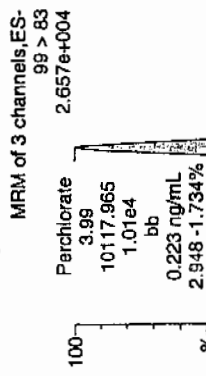
Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

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Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

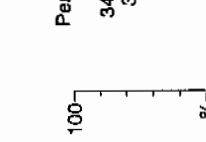
Name: per0312060a
Date: 12-Mar-2010
Time: 17:40:54
ID: 1202056500
Vial: 2:1,F

17920-1958912 | 3070 | MS | 1 | 03-13-10

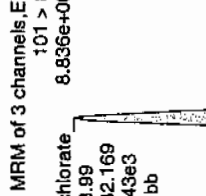
Perchlorate



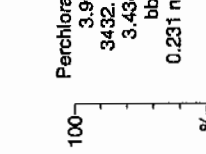
Perchlorate



Perchlorate



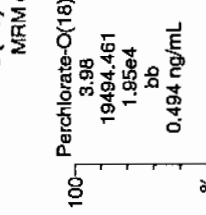
Perchlorate-101



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	S/N	Ion	Ratio
1202056500	Perchlorate	99 > 83	3.99	10117.965	10117.965	bb					0.2232	111.61	11.61	1038.1...		2.95
1202056500	Perchlorate-101	101 > 85	3.99	3432.169	3432.169	bb					0.2310	115.50	15.50	295.158		
1202056500	Perchlorate-O(18)	107 > 89	3.98	19494.461	19494.461	bb					0.4941	98.82	-1.18	1160.3...		

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958909
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8013MSD
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013
 GEL Sample ID: 1202056501
 Date Filtered: 09-MAR-10
 Injection Volume (uL): 20
 %Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.638	2.55	2.88	ug/kg		1	12-MAR-10 17:49	per0312061a
	Perchlorate Isotope Ratio			2.93			1	12-MAR-10 17:49	per0312061a
14797-73-0	Perchlorate-101	.638	2.55	3.00	ug/kg		1	12-MAR-10 17:49	per0312061a
	Perchlorate-O(18)			6.53	ug/kg		1	12-MAR-10 17:49	per0312061a

[^] 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

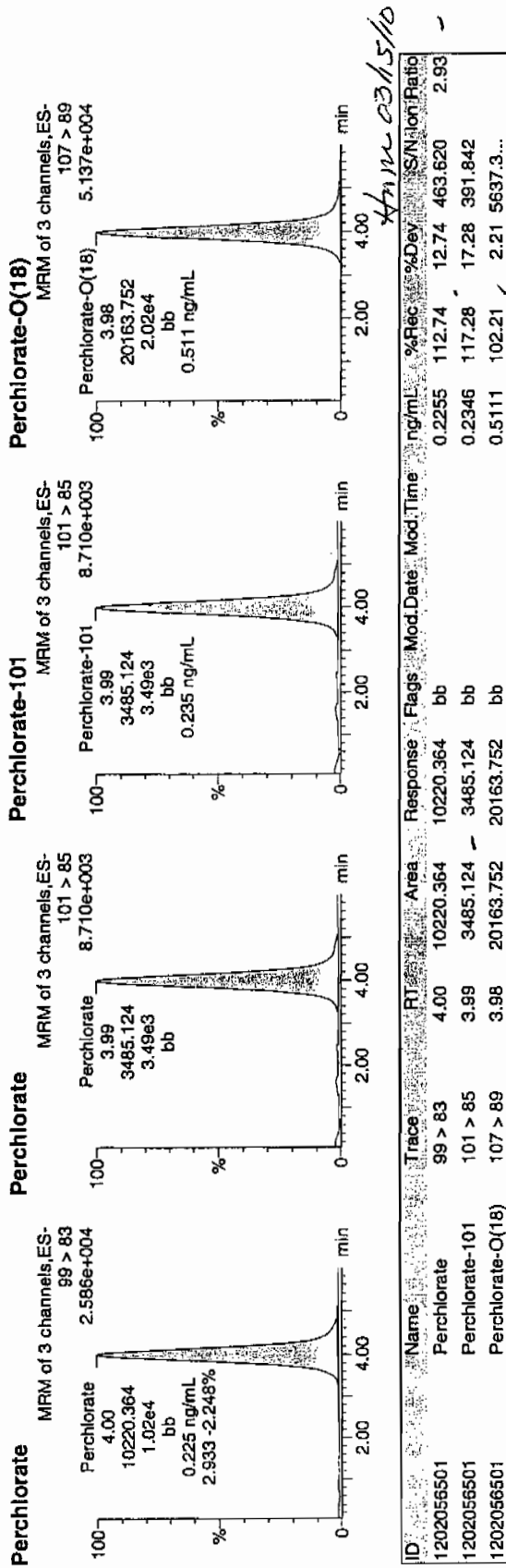
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031210a.qld

Last Altered: Saturday, March 13, 2010 3:16:18 PM Eastern Standard Time
Printed: Saturday, March 13, 2010 3:47:05 PM Eastern Standard Time

Name: per0312061a
Date: 12-Mar-2010
Time: 17:49:54
ID: 1202056501
Vial: 2:2,A

LOW 458512 | 3070 | MSO | 11
03-13-10



MISCELLANEOUS DATA

Prep Logbook

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

Batch ID: 958909 Verified by: _____
 Analyst: Kaylie Westmoreland Lab SOP: GL-OA-E-067 REV# 6
 Method: SW846 6850 Modified Instrument: MicroMass Quatro Ultima

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202056498 MB	09-MAR-2010 14:47:00	2	20	10
1202056499 LCS	09-MAR-2010 14:47:00	2	20	10
247907001	09-MAR-2010 14:47:00	2	20	10
247907002	09-MAR-2010 14:47:00	2	20	10
1202056500 MS (247907002)	09-MAR-2010 14:47:00	2	20	10
1202056501 MSD (247907002)	09-MAR-2010 14:47:00	2	20	10
247907003	09-MAR-2010 14:47:00	2	20	10
247907004	09-MAR-2010 14:47:00	2	20	10
247907005	09-MAR-2010 14:47:00	2	20	10
247907006	09-MAR-2010 14:47:00	2	20	10
247907007	09-MAR-2010 14:47:00	2	20	10
247907008	09-MAR-2010 14:47:00	2	20	10
247907009	09-MAR-2010 14:47:00	2	20	10
247907010	09-MAR-2010 14:47:00	2	20	10
247907011	09-MAR-2010 14:47:00	2	20	10
247907012	09-MAR-2010 14:47:00	2	20	10
247907013	09-MAR-2010 14:47:00	2	20	10
247907014	09-MAR-2010 14:47:00	2	20	10
247907015	09-MAR-2010 14:47:00	2	20	10
247907016	09-MAR-2010 14:47:00	2	20	10
247907017	09-MAR-2010 14:47:00	2	20	10
247920002	09-MAR-2010 14:47:00	2	20	10
1202056502 ICS	09-MAR-2010 14:47:00	2	20	10

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units
ICS	1202056502	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL
LCS	1202056499	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL
MS	1202056500	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL
MSD	1202056501	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL

Desalting Cartridges used: 100217-1-H & 100222-1-Ba

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/12/10
 Extr. Injection Volume: 20uL
 Sequence Number: per031210a
 Initial Calibration Date: 03/12/10

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

Reviewed BY: *HML*
 Date: *23/15/10*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100309-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0312001a	IPB001	CWW	3/12/2010 8:46			1		USE	B
per0312002a	IPB001	CWW	3/12/2010 8:55			1		USE	B
per0312003a	WCLICAL-01	CWW	3/12/2010 9:04			1		USE	I
per0312004a	WCLICAL-02	CWW	3/12/2010 9:13			1		USE	I
per0312005a	WCLICAL-03	CWW	3/12/2010 9:22			1		USE	I
per0312006a	WCLICAL-04	CWW	3/12/2010 9:31			1		USE	I
per0312007a	WCLICAL-05	CWW	3/12/2010 9:40			1		USE	I
per0312008a	IPB002	CWW	3/12/2010 9:49			1		USE	B
per0312009a	WCLICV	CWW	3/12/2010 9:58			1		USE	C
per0312010a	IPB003	CWW	3/12/2010 10:07			1		USE	B
per0312011a	WCLCRI	CWW	3/12/2010 10:16			1		USE	C
per0312012a	ICL100311-01.1 Sf	CWW	3/12/2010 10:25	Screen		1	GEL	USE	B
per0312013a	IPB004	CWW	3/12/2010 10:34			1		USE	B
per0312014a	247561004	CWW	3/12/2010 10:44	964182	10-1951-1	1	LANL	USE	S
per0312015a	247561005	CWW	3/12/2010 10:53	964182	10-1951-1	1	LANL	USE	S
per0312016a	247561006	CWW	3/12/2010 11:02	964182	10-1951-1	1	LANL	USE	S
per0312017a	247561007	CWW	3/12/2010 11:11	964182	10-1951-1	1	LANL	USE	S
per0312018a	247561008	CWW	3/12/2010 11:20	964182	10-1951-1	1	LANL	USE	S
per0312019a	WCLCCV	CWW	3/12/2010 11:29			1	LANL	USE	C
per0312020a	IPB005	CWW	3/12/2010 11:38			1	LANL	USE	B
per0312021a	WCLCRI	CWW	3/12/2010 11:47			1	LANL	USE	C
per0312022a	1202049049	CWW	3/12/2010 11:56	955715	VARIOUS	1	LANL	USE	S
per0312023a	1202049050	CWW	3/12/2010 12:05	955715	VARIOUS	1	LANL	USE	S
per0312024a	1202049053	CWW	3/12/2010 12:14	955715	VARIOUS	1	LANL	USE	S
per0312025a	247249001	CWW	3/12/2010 12:23	955715	10-1877	1	LANL	USE	S
per0312026a	247249002	CWW	3/12/2010 12:32	955715	10-1877	1	LANL	USE	S
per0312027a	1202049051	CWW	3/12/2010 12:41	955715	10-1877	1	LANL	USE	S
per0312028a	1202049052	CWW	3/12/2010 12:50	955715	10-1877	1	LANL	USE	S
per0312029a	247249003	CWW	3/12/2010 12:59	955715	10-1877	1	LANL	USE	S

per0312030a	247249004	CWW	3/12/2010 13:08	955715	10-1877	1	LANL	USE	S
per0312031a	247249005	CWW	3/12/2010 13:17	955715	10-1877	1	LANL	USE	S
per0312032a	WCLCCV	CWW	3/12/2010 13:26			1	LANL	USE	C
per0312033a	IPB006	CWW	3/12/2010 13:35			1	LANL	USE	B
per0312034a	WCLCRI	CWW	3/12/2010 13:44			1	LANL	USE	C
per0312035a	247255001	CWW	3/12/2010 13:53	955715	10-1879	1	LANL	USE	S
per0312036a	247255002	CWW	3/12/2010 14:02	955715	10-1879	1	LANL	USE	S
per0312037a	247255003	CWW	3/12/2010 14:12	955715	10-1879	1	LANL	USE	S
per0312038a	247255004	CWW	3/12/2010 14:21	955715	10-1879	1	LANL	USE	S
per0312039a	247255005	CWW	3/12/2010 14:30	955715	10-1879	1	LANL	USE	S
per0312040a	247321001	CWW	3/12/2010 14:39	955715	10-1893	1	LANL	USE	S
per0312041a	247321002	CWW	3/12/2010 14:48	955715	10-1893	1	LANL	USE	S
per0312042a	247321003	CWW	3/12/2010 14:57	955715	10-1893	1	LANL	USE	S
per0312043a	247321004	CWW	3/12/2010 15:06	955715	10-1893	1	LANL	USE	S
per0312044a	247321005	CWW	3/12/2010 15:15	955715	10-1893	1	LANL	USE	S
per0312045a	WCLCCV	CWW	3/12/2010 15:24			1	LANL	USE	C
per0312046a	IPB007	CWW	3/12/2010 15:33			1	LANL	USE	B
per0312047a	WCLCRI	CWW	3/12/2010 15:42			1	LANL	USE	C
per0312048a	247321006	CWW	3/12/2010 15:51	955715	10-1893	1	LANL	USE	S
per0312049a	247321007	CWW	3/12/2010 16:00	955715	10-1893	1	LANL	USE	S
per0312050a	247325001	CWW	3/12/2010 16:09	955715	10-1896	1	LANL	USE	S
per0312051a	IPB008	CWW	3/12/2010 16:18			1		USE	B
per0312052a	1202056498	CWW	3/12/2010 16:27	958912	VARIOUS	1	LANL	USE	S
per0312053a	1202056499	CWW	3/12/2010 16:37	958912	VARIOUS	1	LANL	USE	S
per0312054a	1202056502	CWW	3/12/2010 16:46	958912	VARIOUS	1	LANL	USE	S
per0312055a	247907001	CWW	3/12/2010 16:55	958912	10-2013	1	LANL	USE	S
per0312056a	WCLCCV	CWW	3/12/2010 17:04			1		USE	C
per0312057a	IPB009	CWW	3/12/2010 17:13			1		USE	B
per0312058a	WCLCRI	CWW	3/12/2010 17:22			1		USE	C
per0312059a	247907002	CWW	3/12/2010 17:31	958912	10-2013	1	LANL	USE	S
per0312060a	1202056500	CWW	3/12/2010 17:40	958912	10-2013	1	LANL	USE	S
per0312061a	1202056501	CWW	3/12/2010 17:49	958912	10-2013	1	LANL	USE	S
per0312062a	247907003	CWW	3/12/2010 17:59	958912	10-2013	1	LANL	USE	S
per0312063a	247907004	CWW	3/12/2010 18:08	958912	10-2013	1	LANL	USE	S
per0312064a	247907005	CWW	3/12/2010 18:17	958912	10-2013	1	LANL	USE	S
per0312065a	247907006	CWW	3/12/2010 18:26	958912	10-2013	1	LANL	USE	S
per0312066a	247907007	CWW	3/12/2010 18:35	958912	10-2013	1	LANL	USE	S

per0312067a	247907008	CWW	3/12/2010 18:44	958912	10-2013	1	LANL	USE	S
per0312068a	247907009	CWW	3/12/2010 18:53	958912	10-2013	1	LANL	USE	S
per0312069a	WCLCCV	CWW	3/12/2010 19:03			1		USE	C
per0312070a	IPB010	CWW	3/12/2010 19:12			1		USE	B
per0312071a	WCLCRI	CWW	3/12/2010 19:21			1		USE	C
per0312072a	247907010	CWW	3/12/2010 19:30	958912	10-2013	1	LANL	USE	S
per0312073a	247907011	CWW	3/12/2010 19:39	958912	10-2013	1	LANL	USE	S
per0312074a	247907012	CWW	3/12/2010 19:48	958912	10-2013	1	LANL	USE	S
per0312075a	247907013	CWW	3/12/2010 19:57	958912	10-2013	1	LANL	USE	S
per0312076a	247907014	CWW	3/12/2010 20:06	958912	10-2013	1	LANL	USE	S
per0312077a	247907015	CWW	3/12/2010 20:15	958912	10-2013	1	LANL	USE	S
per0312078a	247907016	CWW	3/12/2010 20:24	958912	10-2013	1	LANL	USE	S
per0312079a	247907017	CWW	3/12/2010 20:33	958912	10-2013	1	LANL	USE	S
per0312080a	247920002	CWW	3/12/2010 20:42	958912	10-2021	1	LANL	USE	S
per0312081a	WCLCCV	CWW	3/12/2010 20:51			1		USE	C
per0312082a	IPB011	CWW	3/12/2010 21:01			1		USE	B
per0312083a	WCLCRI	CWW	3/12/2010 21:10			1		USE	C
per0312084a	1202056578	CWW	3/12/2010 21:19	958953	10-2078	1	LANL	USE	S
per0312085a	1202056579	CWW	3/12/2010 21:28	958953	10-2078	1	LANL	USE	S
per0312086a	1202056582	CWW	3/12/2010 21:37	958953	10-2078	1	LANL	USE	S
per0312087a	248055001	CWW	3/12/2010 21:46	958953	10-2078	1	LANL	USE	S
per0312088a	1202056580	CWW	3/12/2010 21:55	958953	10-2078	1	LANL	USE	S
per0312089a	1202056581	CWW	3/12/2010 22:04	958953	10-2078	1	LANL	USE	S
per0312090a	248055002	CWW	3/12/2010 22:13	958953	10-2078	1	LANL	USE	S
per0312091a	248055003	CWW	3/12/2010 22:22	958953	10-2078	1	LANL	USE	S
per0312092a	248055004	CWW	3/12/2010 22:31	958953	10-2078	1	LANL	USE	S
per0312093a	WCLCCV	CWW	3/12/2010 22:40			1		USE	C
per0312094a	IPB012	CWW	3/12/2010 22:50			1		USE	B
per0312095a	WCLCRI	CWW	3/12/2010 22:59			1		USE	C
per0312096a	248055005	CWW	3/12/2010 23:08	958953	10-2078	1	LANL	USE	S
per0312097a	248055006	CWW	3/12/2010 23:17	958953	10-2078	1	LANL	USE	S
per0312098a	248055007	CWW	3/12/2010 23:26	958953	10-2078	1	LANL	USE	S
per0312099a	248055008	CWW	3/12/2010 23:35	958953	10-2078	1	LANL	USE	S
per0312100a	248055009	CWW	3/12/2010 23:44	958953	10-2078	1	LANL	USE	S
per0312101a	248055010	CWW	3/12/2010 23:53	958953	10-2078	1	LANL	USE	S
per0312102a	248055011	CWW	3/13/2010 0:02	958953	10-2078	1	LANL	USE	S
per0312103a	248055012	CWW	3/13/2010 0:11	958953	10-2078	1	LANL	USE	S

per0312141a	248037013	CWW	3/13/2010 5:57	958926	10-2066	1	LANL	USE	S
per0312142a	248037014	CWW	3/13/2010 6:06	958926	10-2066	1	LANL	USE	S
per0312143a	248037015	CWW	3/13/2010 6:15	958926	10-2066	1	LANL	USE	S
per0312144a	248037016	CWW	3/13/2010 6:24	958926	10-2066	1	LANL	USE	S
per0312145a	248037017	CWW	3/13/2010 6:33	958926	10-2066	1	LANL	USE	S
per0312146a	248037018	CWW	3/13/2010 6:42	958926	10-2066	1	LANL	USE	S
per0312147a	248037019	CWW	3/13/2010 6:51	958926	10-2066	1	LANL	USE	S
per0312148a	248037020	CWW	3/13/2010 7:00	958926	10-2066	1	LANL	USE	S
per0312149a	WCLCCV	CWW	3/13/2010 7:09			1		USE	C
per0312150a	IPB017	CWW	3/13/2010 7:19			1		USE	B
per0312151a	WCLCRI	CWW	3/13/2010 7:28			1		USE	C

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 10-2013-1**

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: 959044

Prep Batch Number: 959043

Sample Analysis

Sample ID	Client ID
247908001	RE15-10-8089
247908002	RE15-10-8086
247908003	RE15-10-8088
1202056714	Interference Check Sample (ICS)
1202056710	Method Blank (MB)
1202056711	Laboratory Control Sample (LCS)
1202056712	247908001(RE15-10-8089) Matrix Spike (MS)
1202056713	247908001(RE15-10-8089) 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.

10-2013-1-PERLCMS

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Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247908001 (RE15-10-8089) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

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: Heather M. Mace Date: 03/15/10

SAMPLE DATA SUMMARY

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: 959043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-8089
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 247908001
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:33	per0308079a
	Perchlorate Isotope Ratio:						1	09-MAR-10 03:33	per0308079a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:33	per0308079a
	Perchlorate-O(18)			0.438	ug/L		1	09-MAR-10 03:33	per0308079a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 959043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-8086
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 247908002
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:00	per0308082a
	Perchlorate Isotope Ratio						1	09-MAR-10 04:00	per0308082a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:00	per0308082a
	Perchlorate-O(18)			0.443	ug/L		1	09-MAR-10 04:00	per0308082a

[^] 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

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

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 259043
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-8088
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 247908003
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20

Sample Volume/Weight: 10.0 mLConcentrated 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	09-MAR-10 04:09	per0308083a
	Perchlorate Isotope Ratio						1	09-MAR-10 04:09	per0308083a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:09	per0308083a
	Perchlorate-O(18)			0.435	ug/L		1	09-MAR-10 04:09	per0308083a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

QUALITY CONTROL SUMMARY

P perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2013-1

Extract Batch Code: 959043

Date Filtered: 03-MAR-10

Matrix: WATER

Sample ID: 1202056711

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.179	ug/L	89.7		85 - 115
Perchlorate Isotope Ratio		3.2				-
Perchlorate-101	0.200	.184	ug/L	92.2		85 - 115
Perchlorate-O(18)		.419	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): 10-2013-1

Extract Batch Code: 959043

Date Filtered: 03-MAR-10

Matrix: WATER

Sample ID: 1202056714

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.193	ug/L	96.7		70 - 130
Perchlorate Isotope Ratio		3.11				
Perchlorate-101	0.200	.204	ug/L	102		70 - 130
Perchlorate-O(18)		.46	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

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

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

Name: per0308078a

Date: 09-Mar-2010

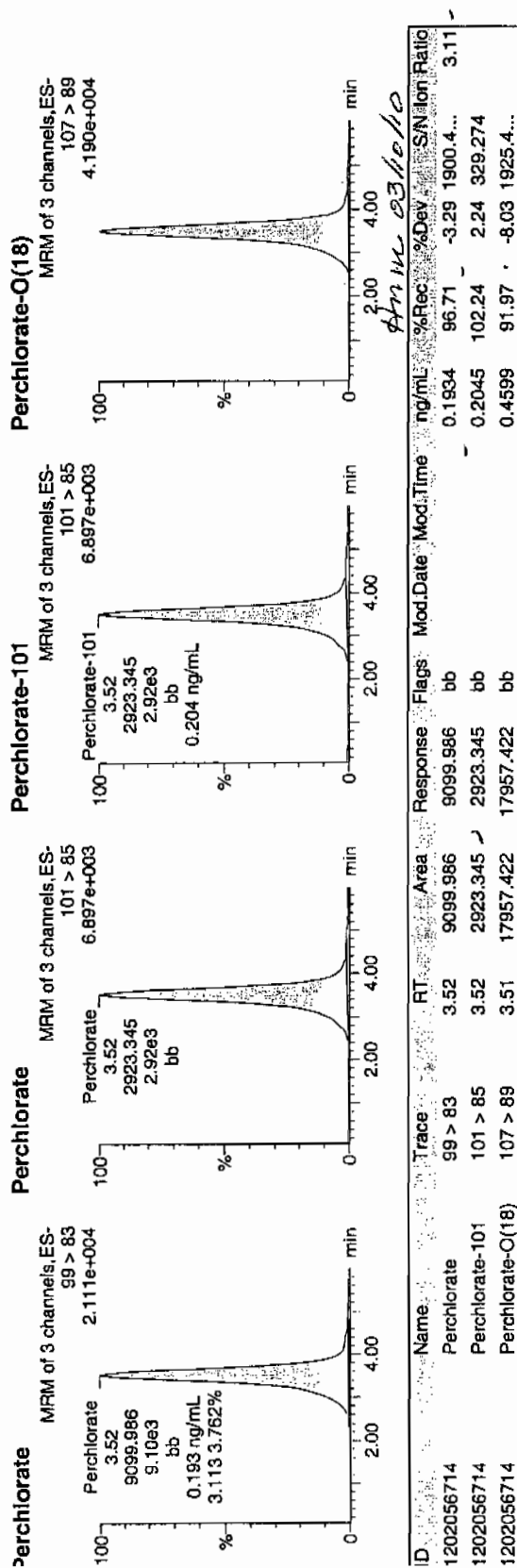
Time: 03:24:26

D: 1202056714

/Ial: 2:4,C

603
03-31-10

1202056714 | 202056714 | 202056714



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056714	Perchlorate	99 > 83	3.52	9099.986	9099.986	bb			0.1934	96.71	-3.29	1900.4...	3.11
1202056714	Perchlorate-101	101 > 85	3.52	2923.345	2923.345	bb			0.2045	102.24	2.24	329.274	
1202056714	Perchlorate-O(18)	107 > 89	3.51	17957.422	17957.422	bb			0.4599	91.97	-8.03	1925.4...	

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

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2013-1

Extract Batch Code: 959043

Date Extracted: 03-MAR-10

GEL MS/PS ID: 1202056712

Client ID: RE15-10-8089

GEL MSD/PSD ID: 1202056713

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	0.00111	ug/L	0.182	90.7		.19	94.7		4.26		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.13			3.16			0			-
Perchlorate-101	0.200	0.00107	ug/L	0.192	95.5		.199	98.7		3.33		30	75 - 125
Perchlorate-O(18)	0	0.438	ug/L	0.438			.447			2.15			--

^ 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): 10-2013-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

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

uantify Sample Report MassLynx 4.0 SP4
e GEL Group, LLC Analyst: Charlers W. Wilson

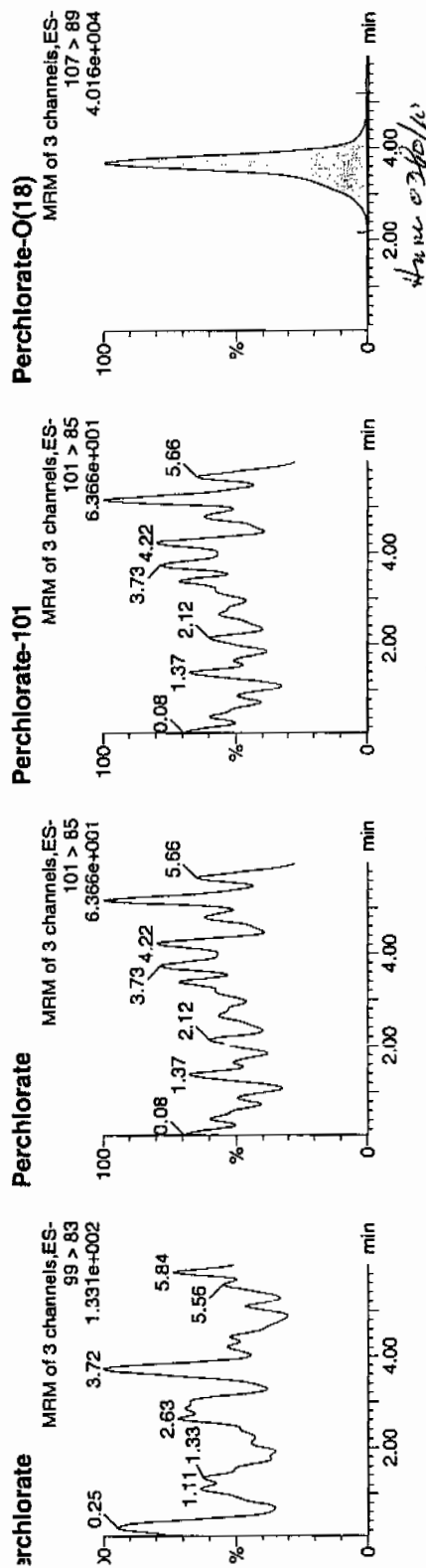
ataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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

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

ame: per0308001a
ate: 08-Mar-2010
me: 15:44:43
: IPB001
al: 1:1,A

03-09-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B001	Perchlorate	99 > 83										0.00
B001	Perchlorate-101	101 > 85										
B001	Perchlorate-O(18)	107 > 89	3.68	20012.854	20012.854	bb		0.5125	102.50	2.50	855.555	

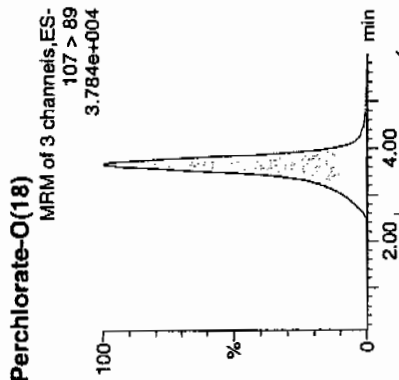
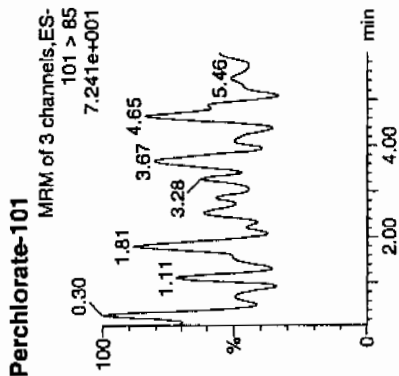
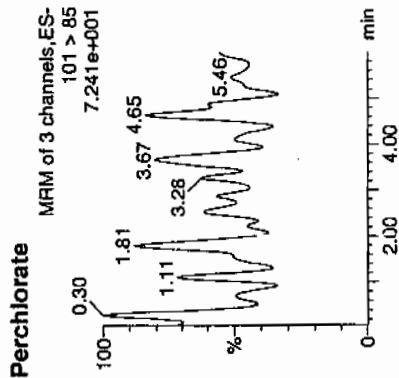
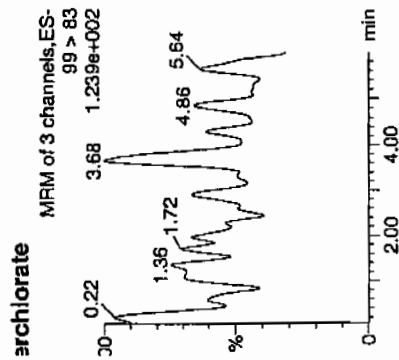
uantify Sample Report MassLynx 4.0 SP4
 ie GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308002a
 ate: 08-Mar-2010
 ime: 15:53:45
 : IPB001
 al: 1:1,A

03-04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B001	Perchlorate	99 > 83										0.00
B001	Perchlorate-101	101 > 85										
B001	Perchlorate-O(18)	107 > 89	3.66	18783.678	bb			0.4810	96.21	✓	-3.79	1331.0...

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2013-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

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

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2013-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308061a	IPB008
Perchlorate	0.00	0	NA	09-MAR-10	per0308074a	IPB009
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308074a	IPB009
Perchlorate	0.00	0	NA	09-MAR-10	per0308087a	IPB010
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308087a	IPB010

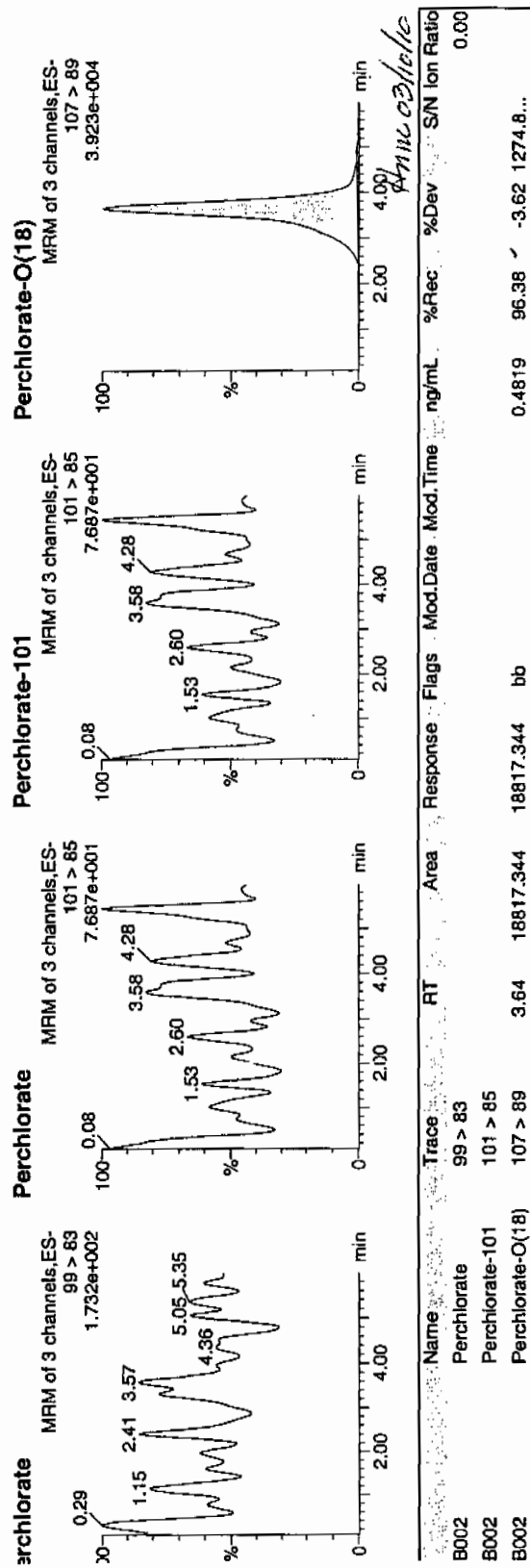
uantify Sample Report MassLynx 4.0 SP4
ne GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308008a
ate: 08-Mar-2010
me: 16:48:15
i: IPB002
al: 1:1,A

03-01-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B002	Perchlorate	99 > 83										0.00
B002	Perchlorate-101	101 > 85										
B002	Perchlorate-O(18)	107 > 89	3.64	18817.344	bb			0.4819	96.38	-3.62	1274.8...	

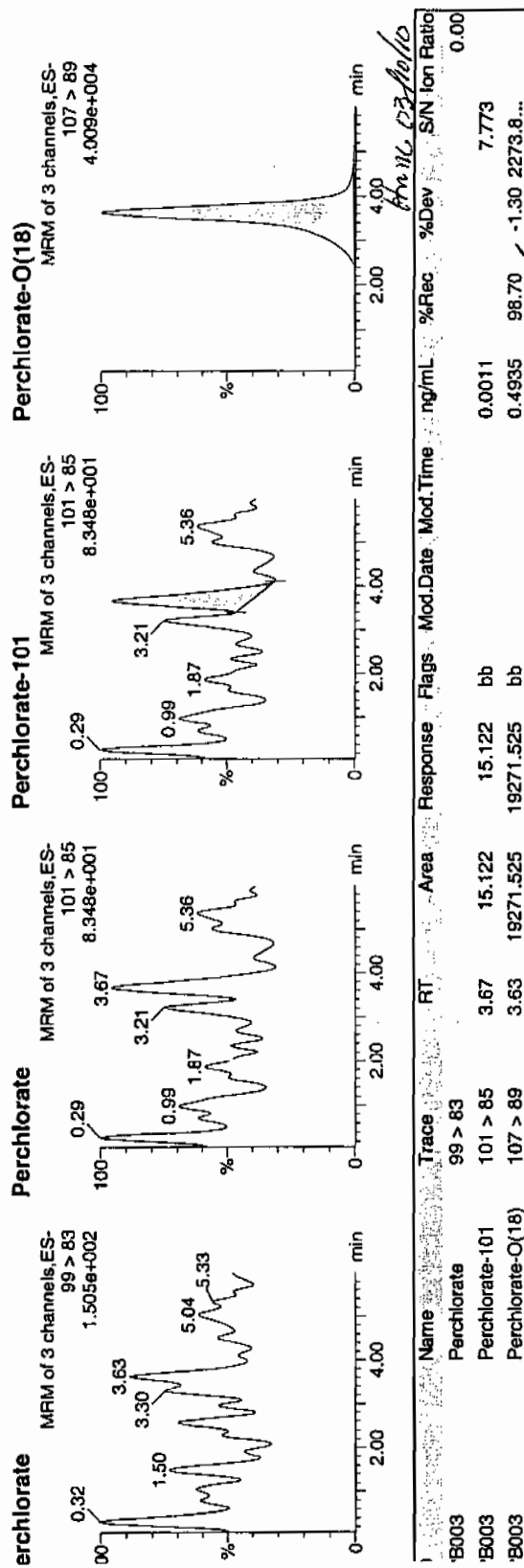
uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308010a
ate: 08-Mar-2010
ime: 17:06:27
): IPB003
ial: 1:1,A

03-09-10



uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

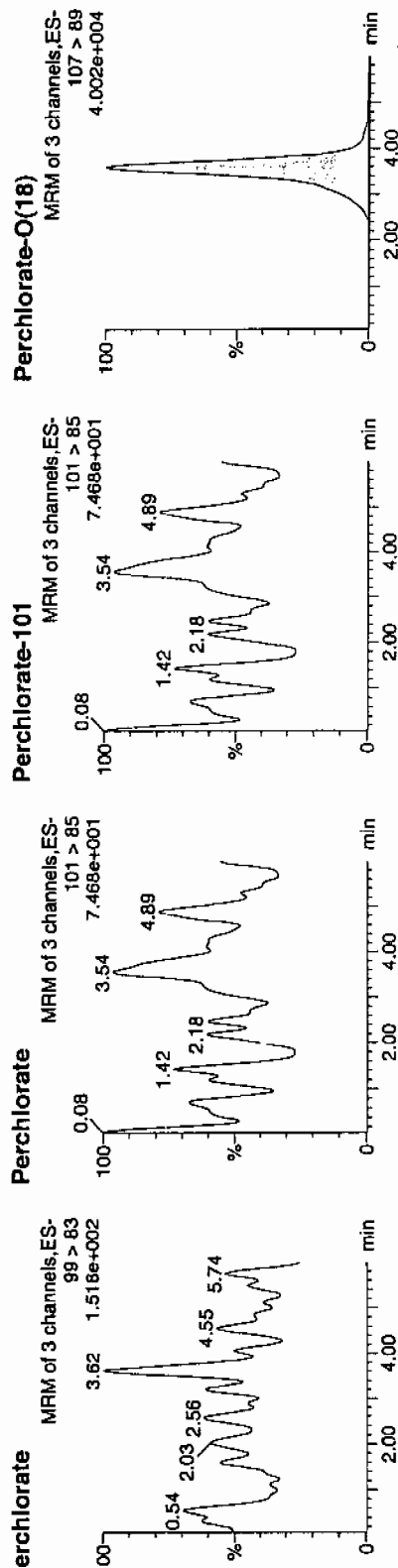
Page 22 of 139

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

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

ame: per0308022a
ate: 08-Mar-2010
ime: 18:55:24
: IPB004
ial: 1:1,A

03-09-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B004	Perchlorate	99 > 83										0.00
B004	Perchlorate-101	101 > 85										
B004	Perchlorate-O(18)	107 > 89	3.58	19034.945	bb	19034.945		0.4875	97.49	-2.51	1930.8...	

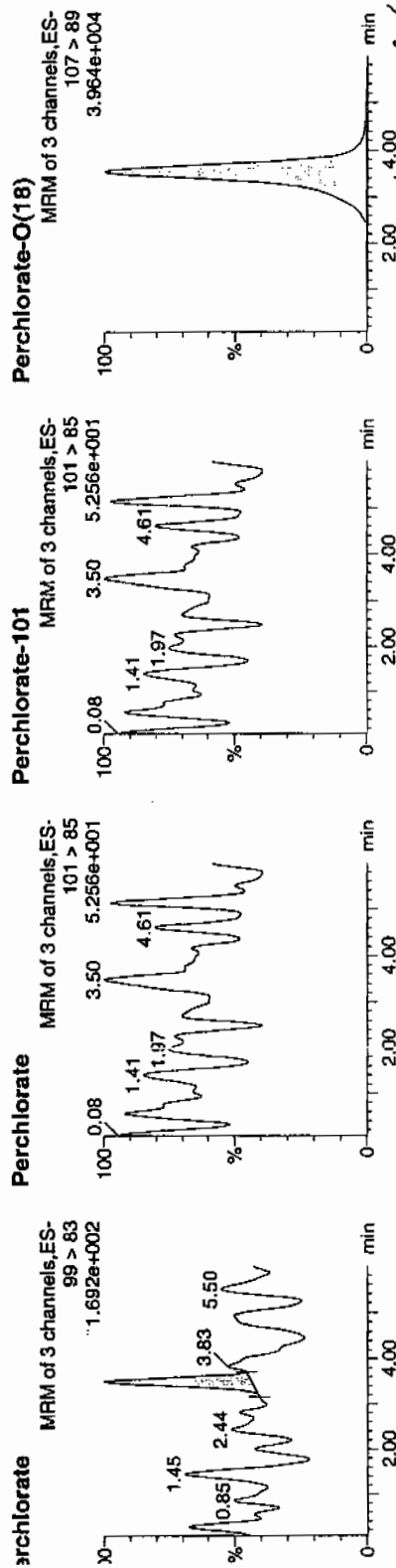
Identify Sample Report MassLynx 4.0 SP4
 GEL Group, LLC Analyst: Charles W. Wilson

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

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

Sample Name: per0308035a
 Date: 08-Mar-2010
 Time: 20:53:11
 File: IPB005
 Aliquot: 1:1,A

0309-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B005 Perchlorate	99 > 83	3.50	20.240	20.240	bb			0.0004			12.166	0.00
B005 Perchlorate-101	101 > 85											
B005 Perchlorate-O(18)	107 > 89	3.53	18853.305	18853.305	bb			0.4828	96.56	-3.44	2233.7...	

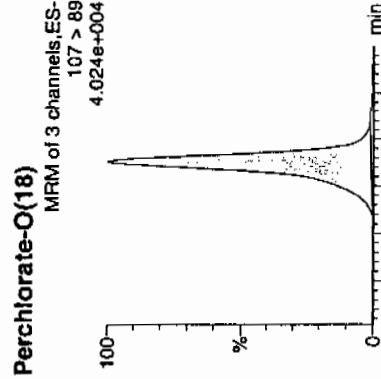
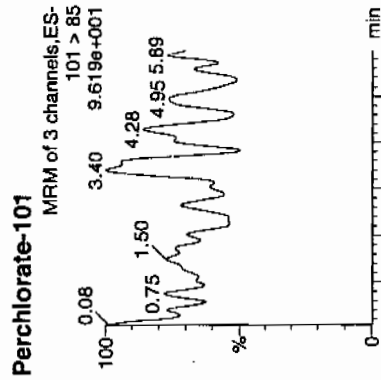
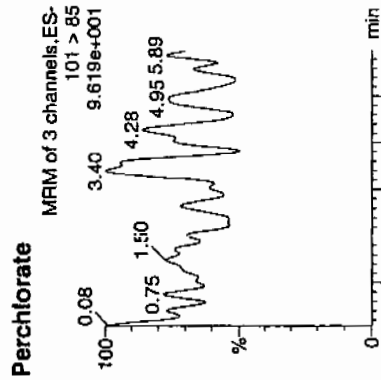
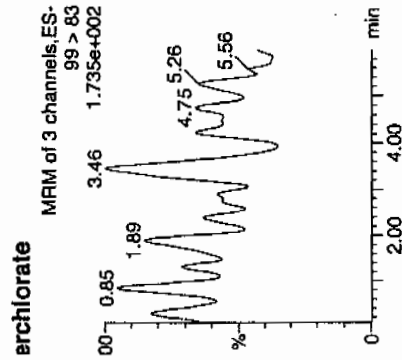
uantify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308048a
 ate: 08-Mar-2010
 ime: 22:51:21
): IPB006
 ial: 1:1,A

03-09-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	3.51	18258.602	18258.602	bb			0.4676	93.52	-6.48	1018.6...	

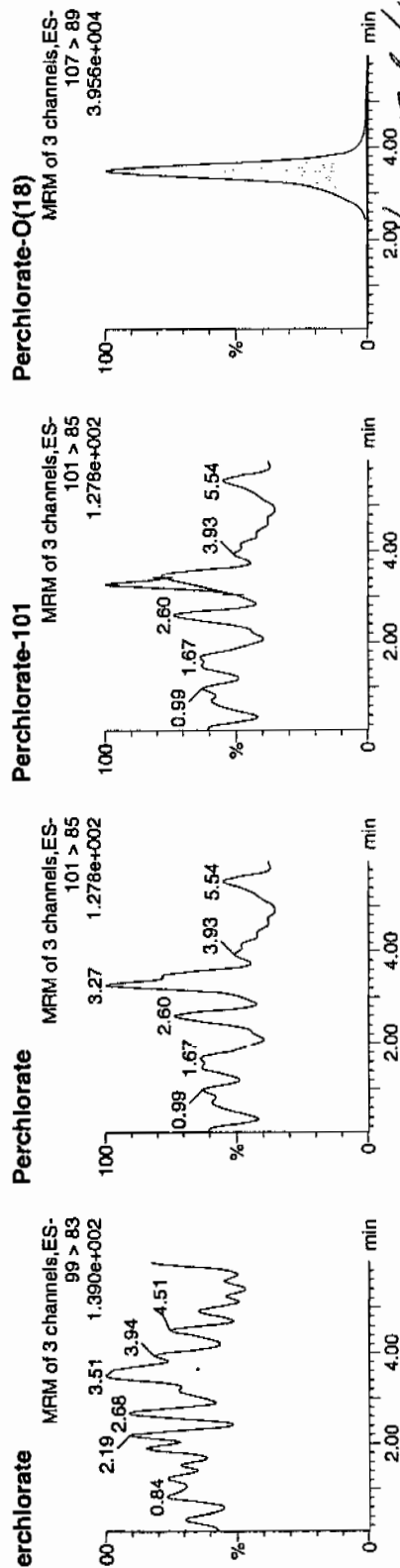
uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charters W. Wilson

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

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

ame: per0308052a
ate: 08-Mar-2010
ime: 23:27:41
): IPB007
ial: 1:1,A

03-04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.27	7.250	7.250	bb			0.0005	94.73	-5.27	11.574	0.00
Perchlorate-101	101 > 85	3.50	18495.547	18495.547	bb			0.4736			613.571	
Perchlorate-O(18)	107 > 89											

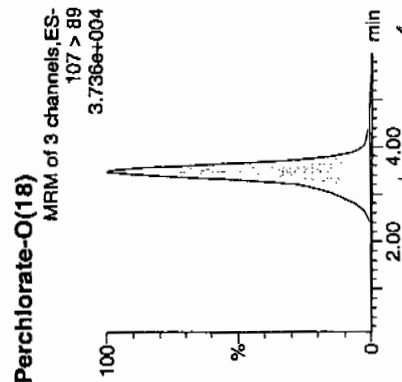
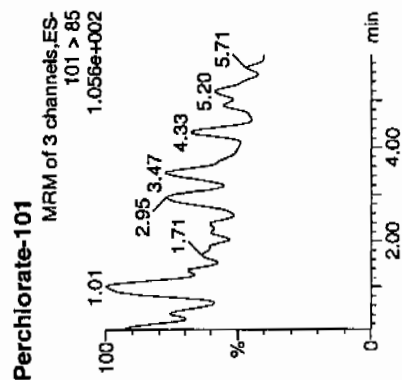
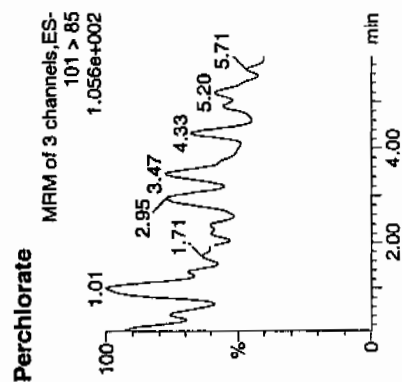
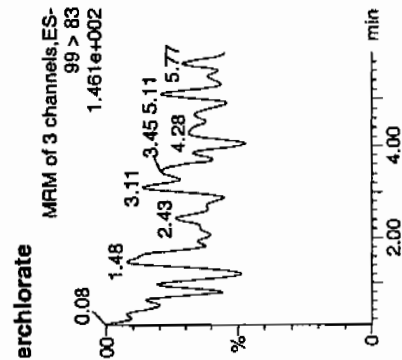
uantify Sample Report MassLynx 4.0 SP4
 re GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308061a
 ate: 09-Mar-2010
 ime: 00:50:02
): IPB008
 ial: 1:1,A

03:04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	3.48	17193.295	17193.295	bb			0.4403	88.06	-11.94	1235.1	

Identify Sample Report MassLynx 4.0 SP4
 ie GEL Group, LLC Analyst: Charlers W. Wilson

Page 74 of 139

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

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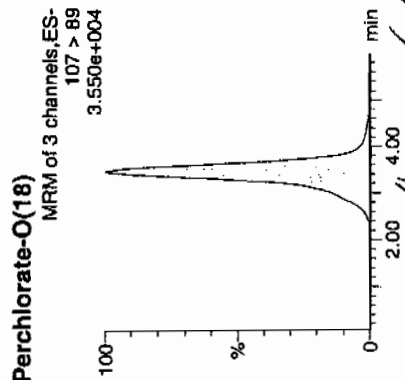
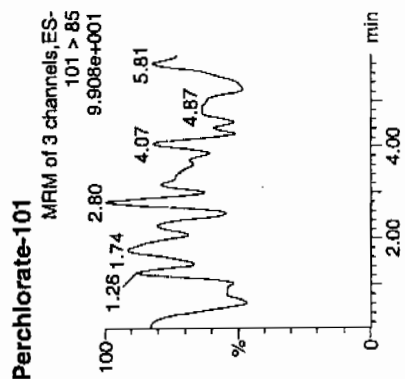
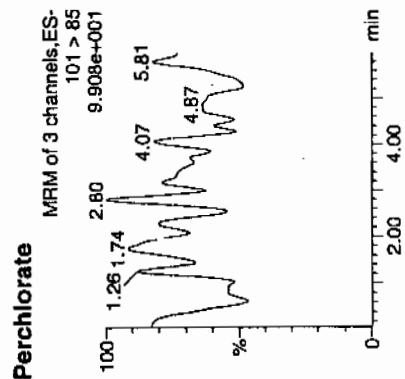
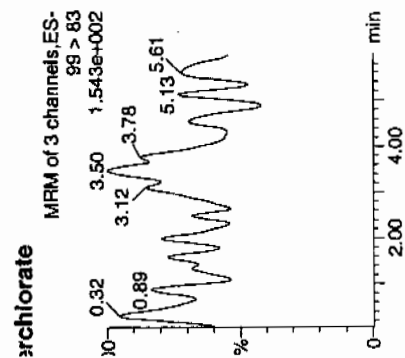
ite: 09-Mar-2010

me: 02:48:02

: IPB009

al: 1:1,A

03-04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B009	Perchlorate	99 > 83										0.00
B009	Perchlorate-101	101 > 85										
B009	Perchlorate-O(18)	107 > 89	3.47	16711.643	bb	16711.643		0.4280	85.59	-14.41	2348.6...	

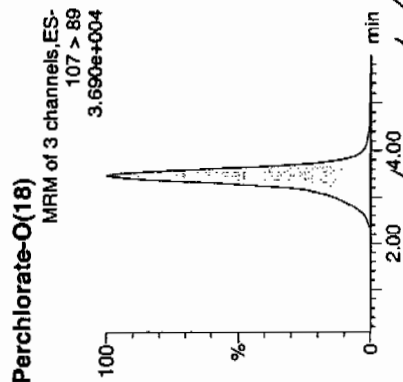
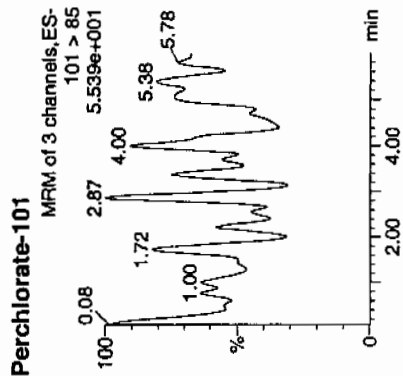
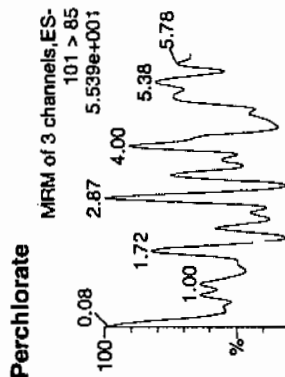
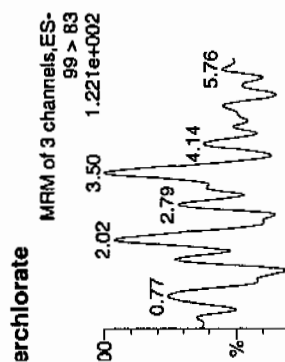
Quantity Sample Report MassLynx 4.0 SP4
 re GEL Group, LLC Analyst: Charliers W. Wilson

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

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

ame: per0308087a
 ate: 09-Mar-2010
 ime: 04:46:06
 i: IPB010
 lai: 1:1,A

03 04-10



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

Nairb.ref

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

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
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; 3770.3457	100
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QUARTO ULTIMA: nairb_01_08_08.cal

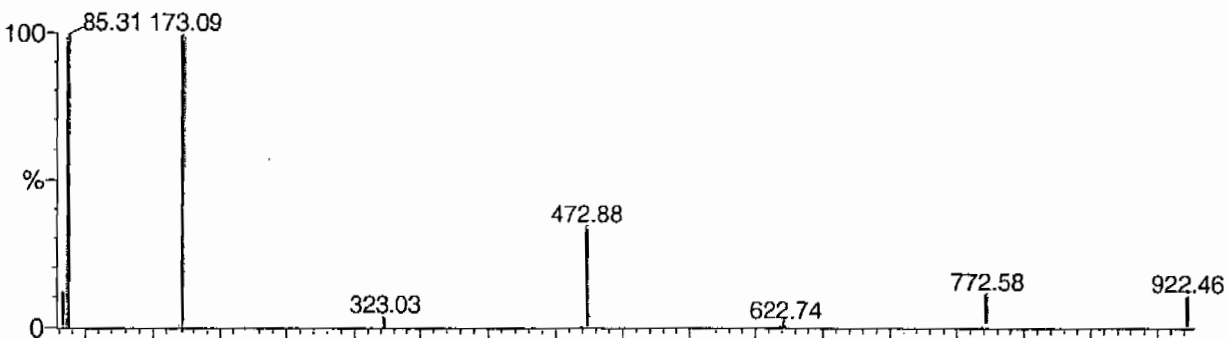
Calibration Report - MS1 Static

Page 1 of 1

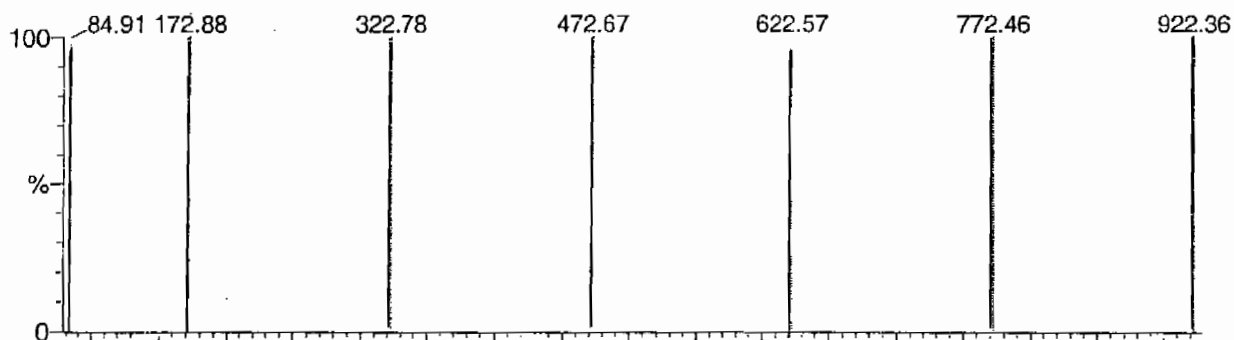
Printed: Tue Jan 08 12:19:12 2008

POINTS HIGHLIGHTED BY CURVE 01-09-08

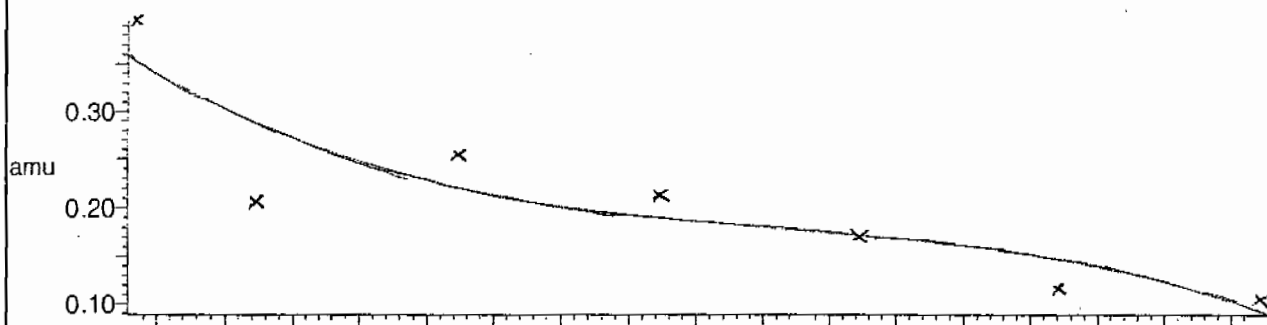
Data file: STATMS1 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

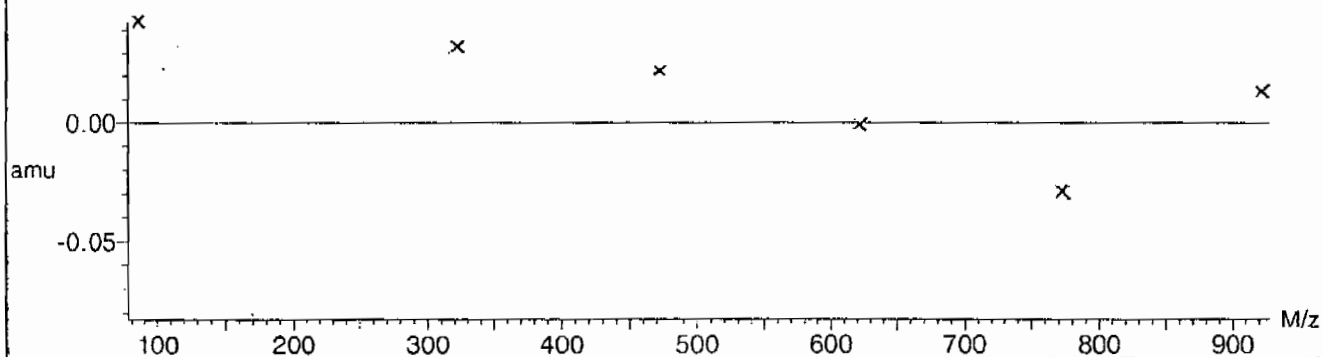


Mass difference (Raw - Ref mass)



Residuals

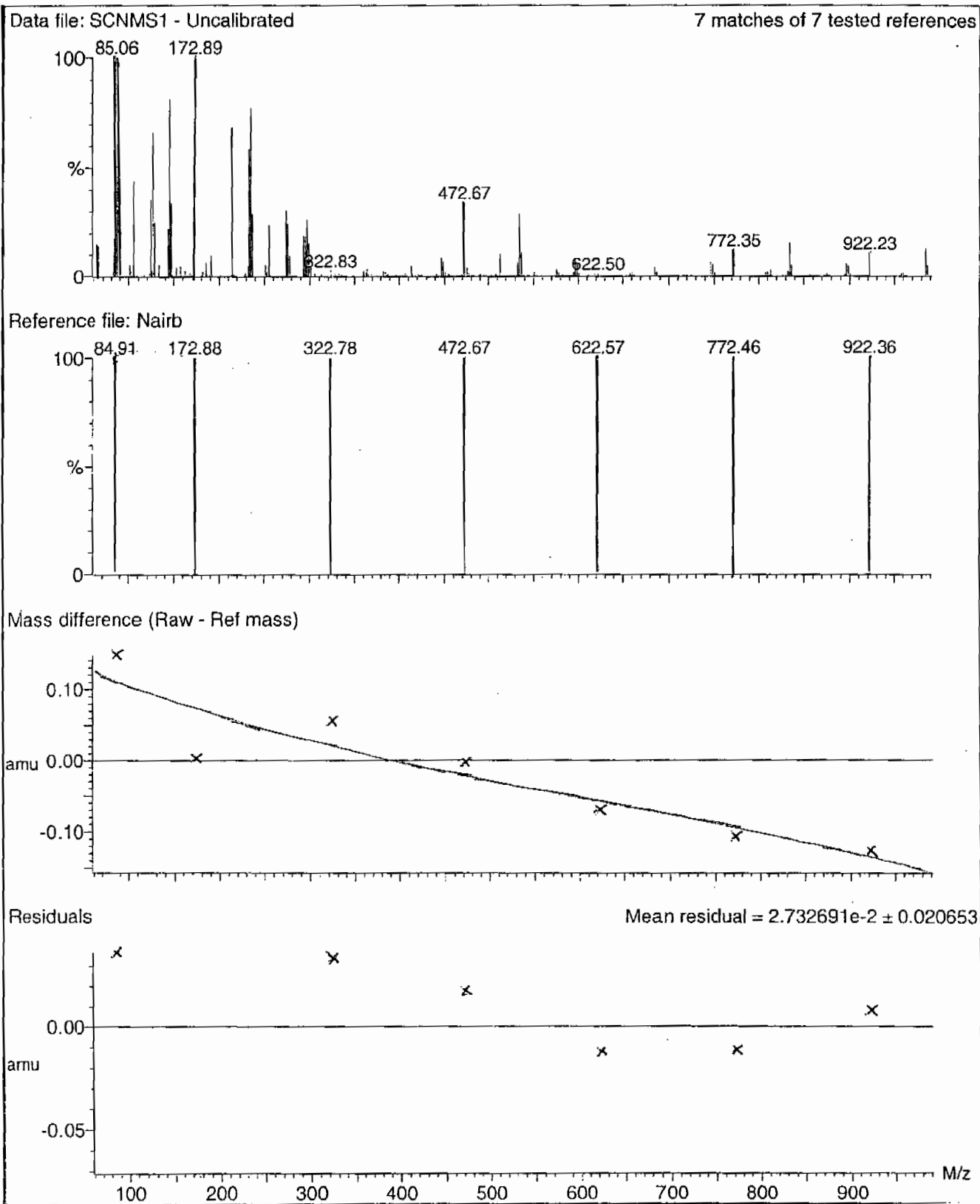
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

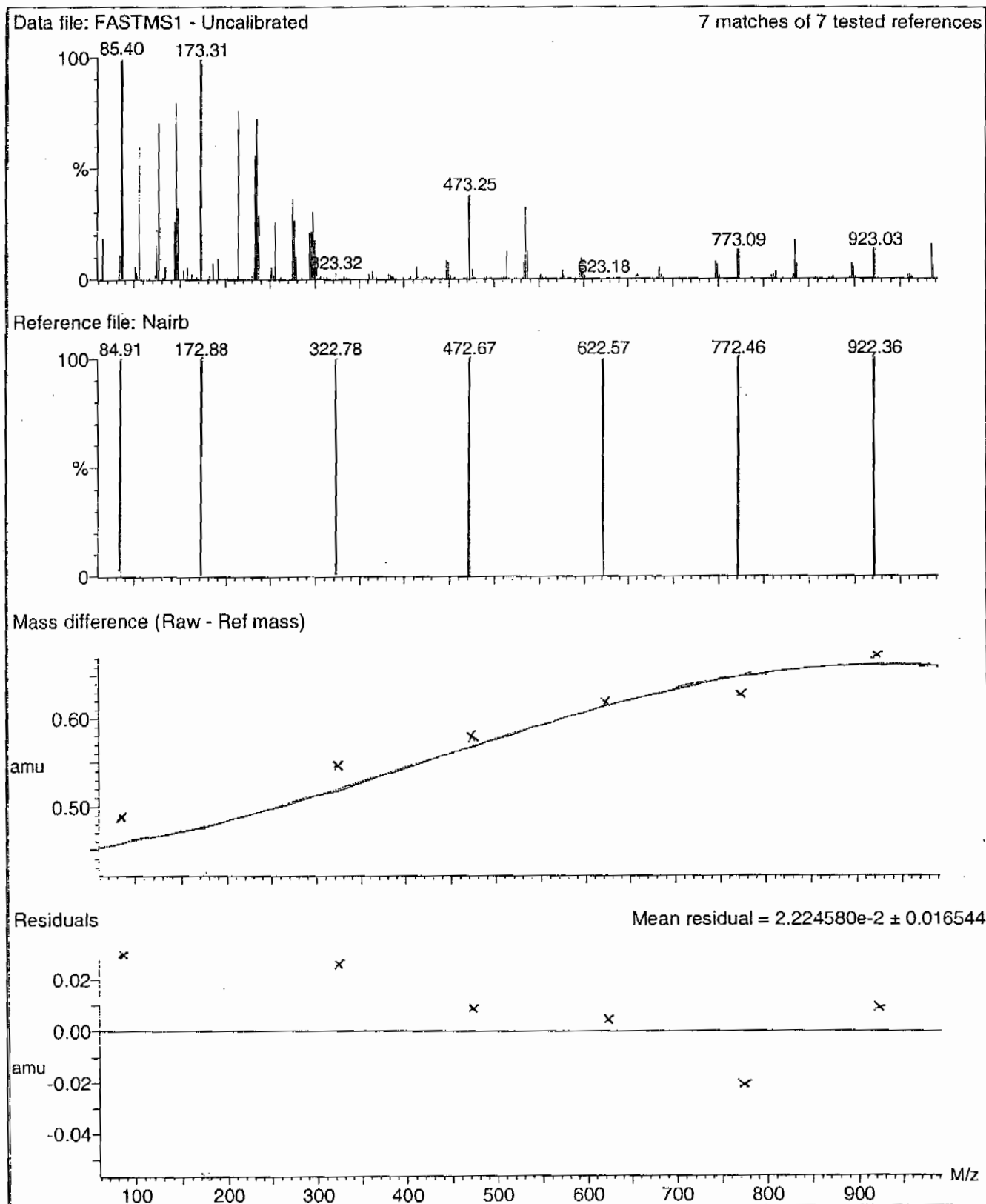
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

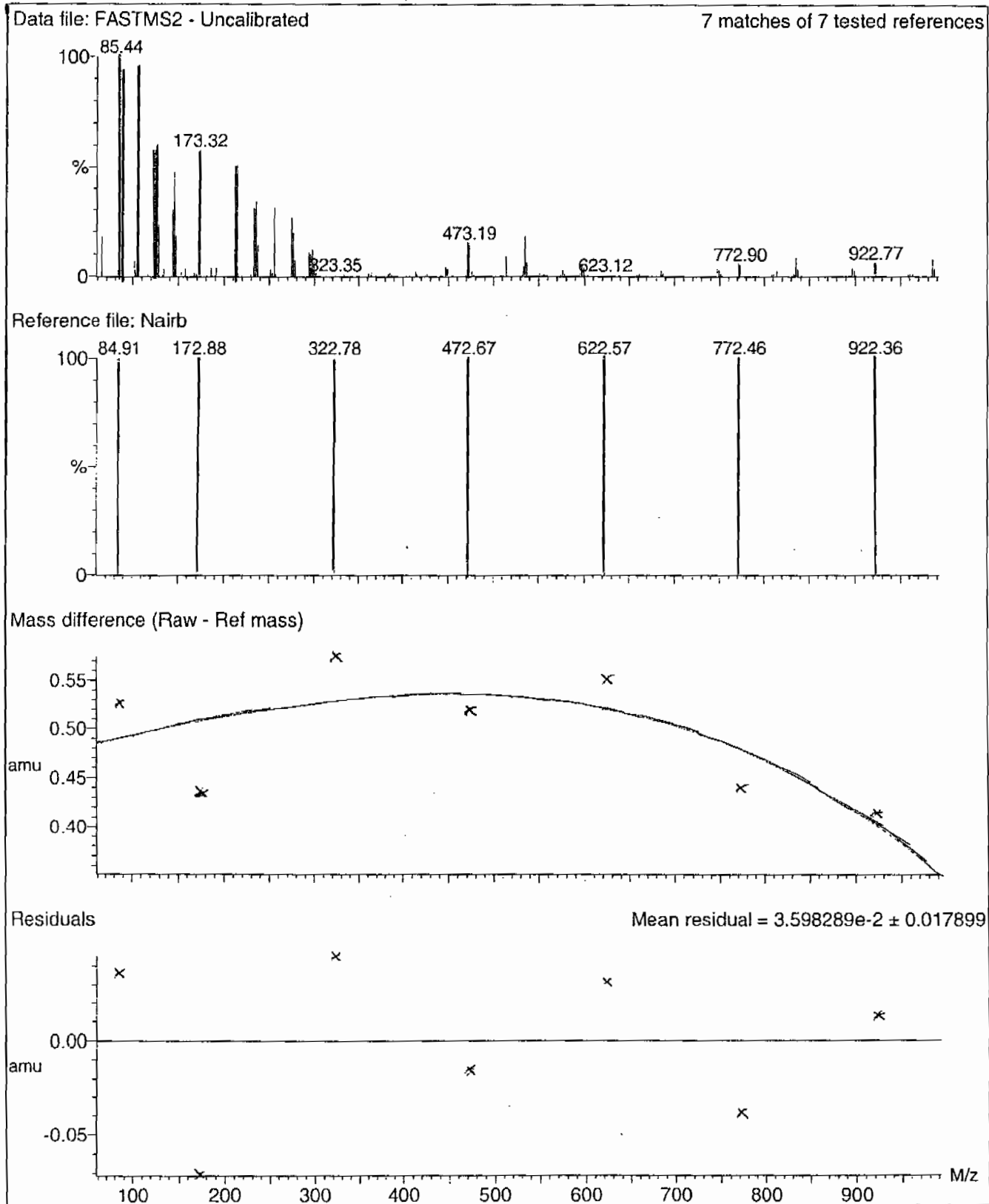
Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

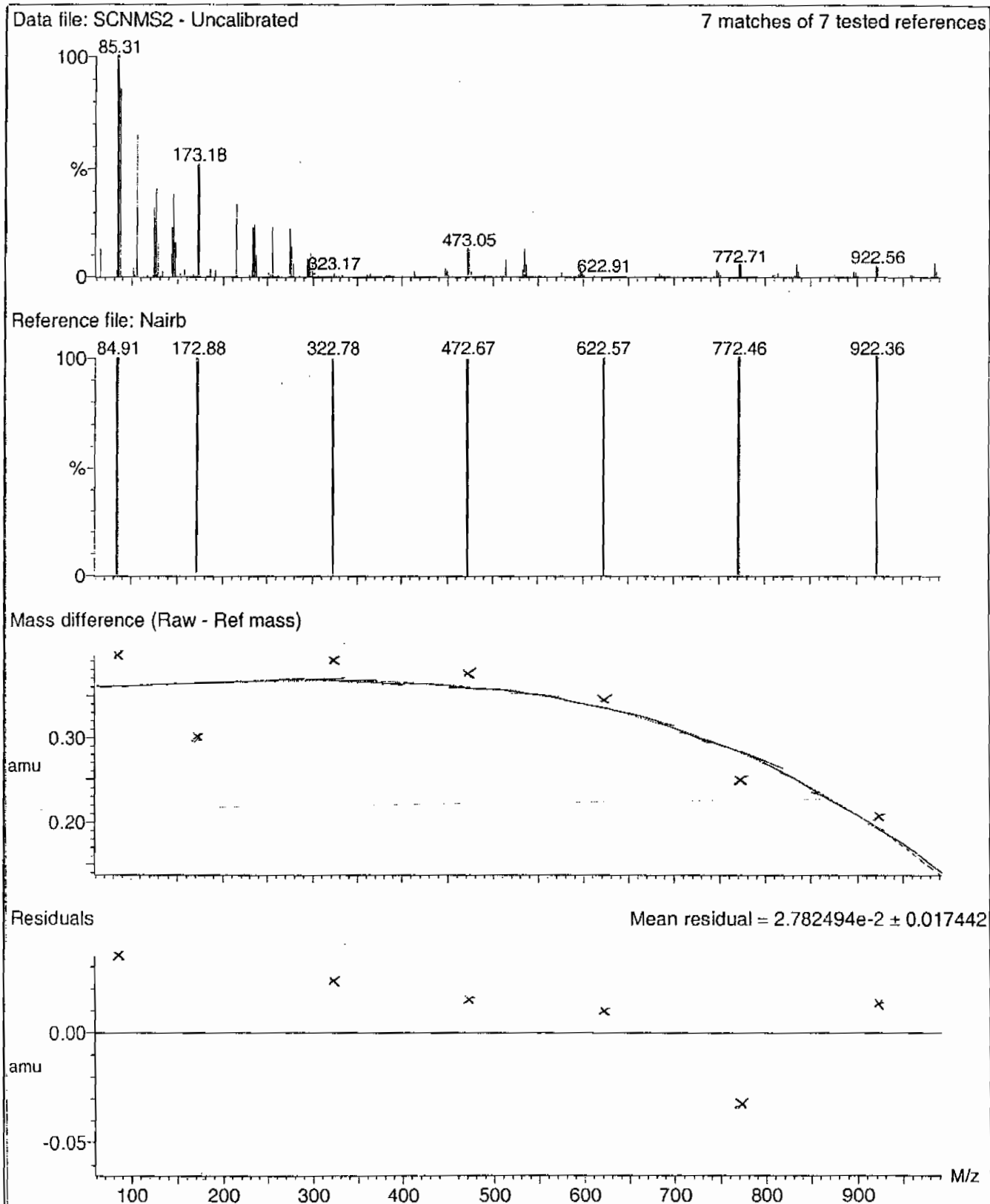
Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



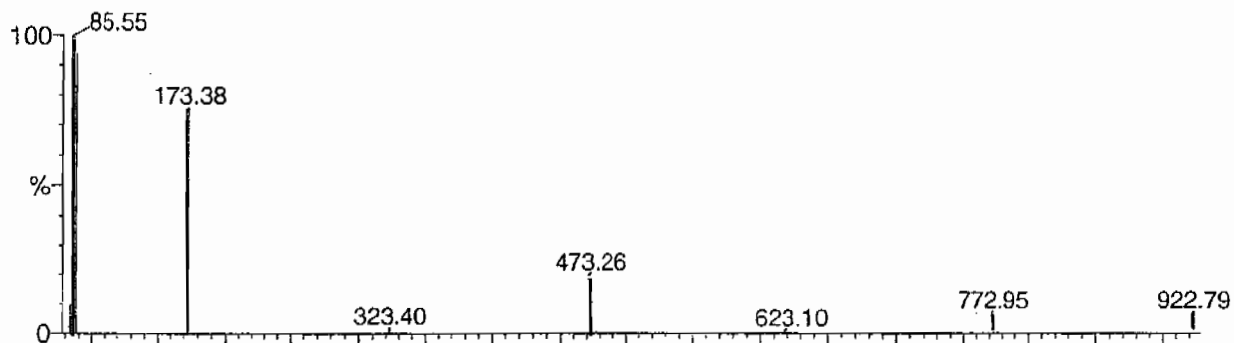
Calibration Report - MS2 Static

Page 1 of 1

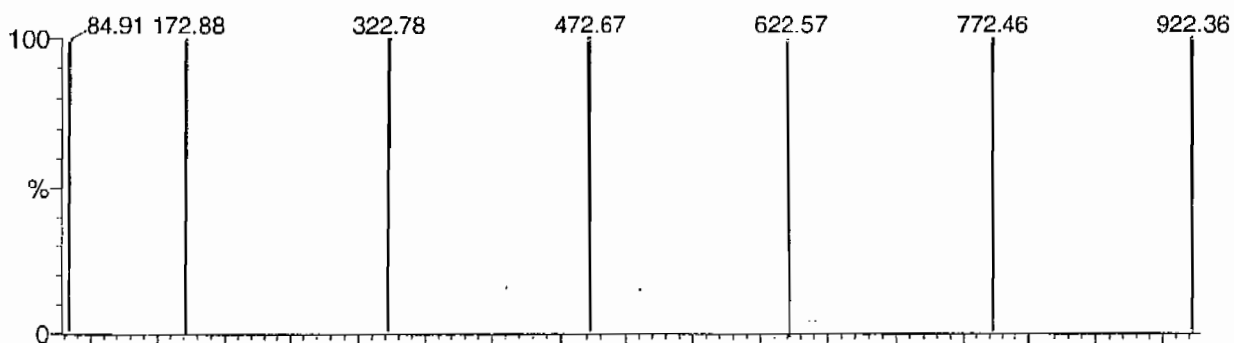
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

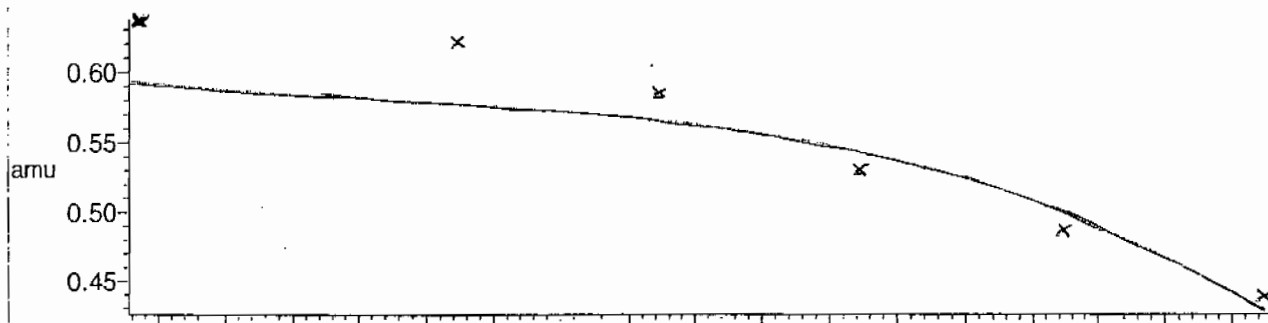
7 matches of 7 tested references



Reference file: Nairb

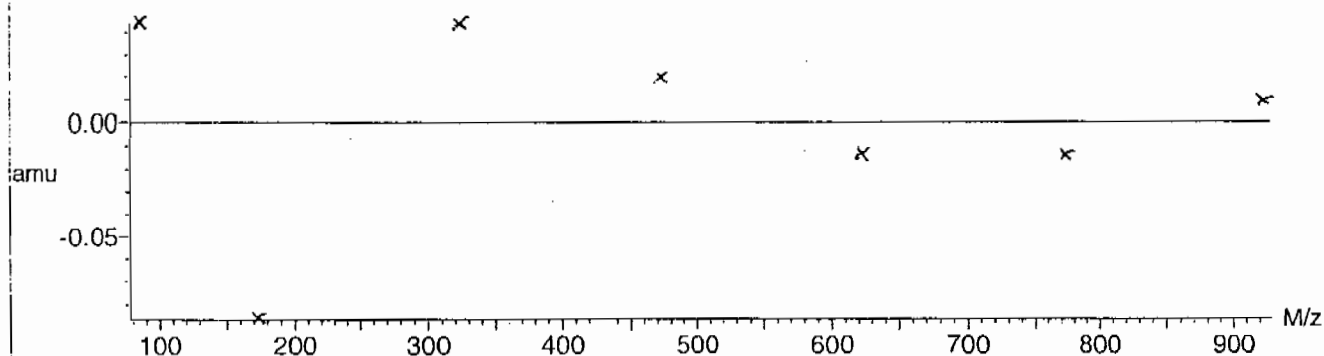


Mass difference (Raw - Ref mass)



Residuals

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



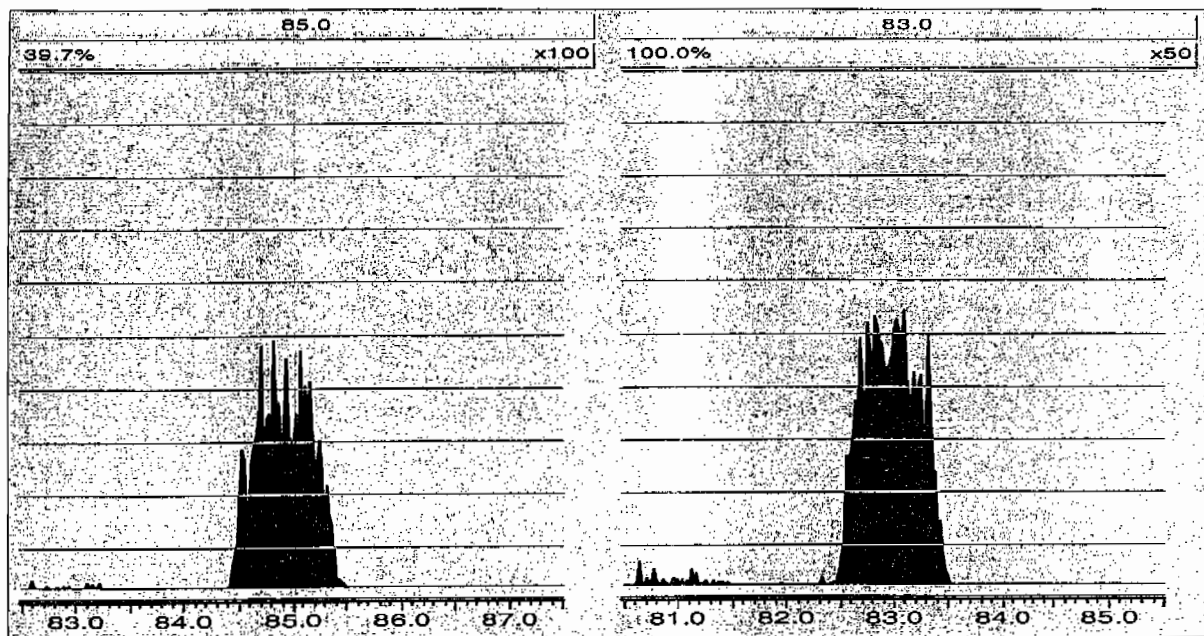
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

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



Form 8

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2013-1

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	per0308006a	08-MAR-10	19792.7				
Lower Area Limit			9896.35				
Upper Area Limit			39585.4				
1202056710	per0308076a	09-MAR-10 03:06	15825.6	3.47	3.43317	.989	
1202056711	per0308077a	09-MAR-10 03:15	16378.9	3.47	3.4828	1.004	
1202056714	per0308078a	09-MAR-10 03:24	17957.4	3.51	3.52005	1.003	
247908001	per0308079a	09-MAR-10 03:33	17093.4	3.47	3.47042	1	
1202056712	per0308080a	09-MAR-10 03:42	17092.3	3.47	3.48275	1.004	
1202056713	per0308081a	09-MAR-10 03:51	17463.7	3.46	3.48273	1.007	
247908002	per0308082a	09-MAR-10 04:00	17282.3	3.46	3.52	1.017	
247908003	per0308083a	09-MAR-10 04:09	16967.1	3.46	3.48278	1.007	

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: 959043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8089

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013-1

GEL Sample ID: 247908001

Date Filtered: 03-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:33	per0308079a
	Perchlorate Isotope Ratio						1	09-MAR-10 03:33	per0308079a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:33	per0308079a
	Perchlorate-O(18)			0.438	ug/L		1	09-MAR-10 03:33	per0308079a

[^] 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

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

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

ame: per0308079a

ate: 09-Mar-2010

ime: 03:33:29

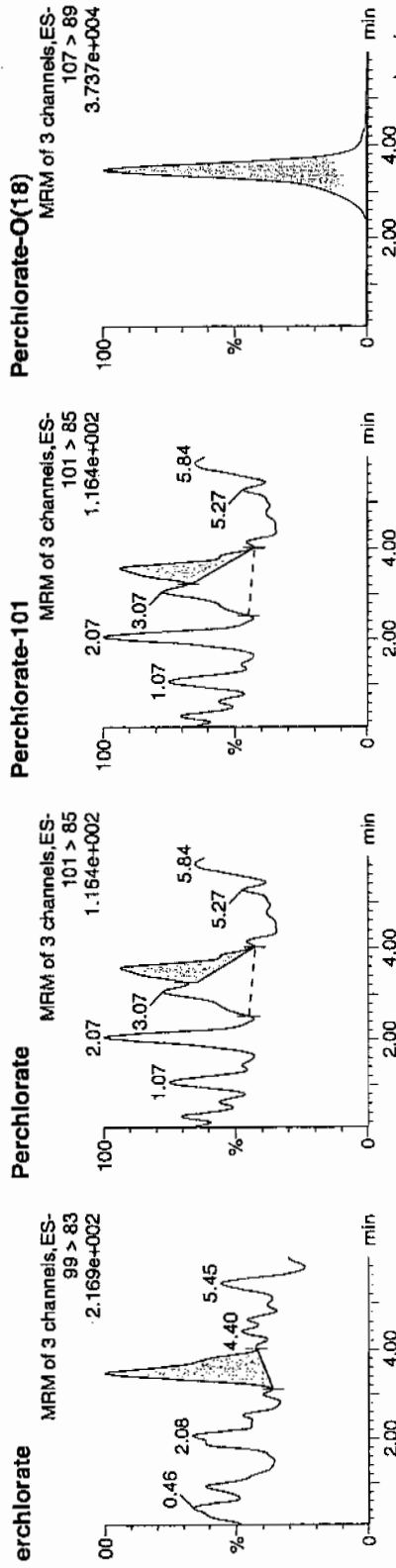
J: 247908001

ial: 2:4,D

1620-195044/122/11

03-09-10

MANUAL



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.47	52.379	52.379	bb	09-Mar-10	12:57:08	0.0011			12.272	3.41
Perchlorate-101	101 > 85	3.58	15.339	15.339	MM	09-Mar-10	12:57:27	0.0011			12.276	
Perchlorate-O(18)	107 > 89	3.47	17093.414	17093.414	bb			0.4377	87.55	-12.45	936.294	

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: 259043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8086

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013-1

GEL Sample ID: 247908002

Date Filtered: 03-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:00	per0308082a
	Perchlorate Isotope Ratio						1	09-MAR-10 04:00	per0308082a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:00	per0308082a
	Perchlorate-O(18)			0.443	ug/L		1	09-MAR-10 04:00	per0308082a

^ 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\per030810a.qld

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

Sample Name: per0308082a

Date: 09-Mar-2010

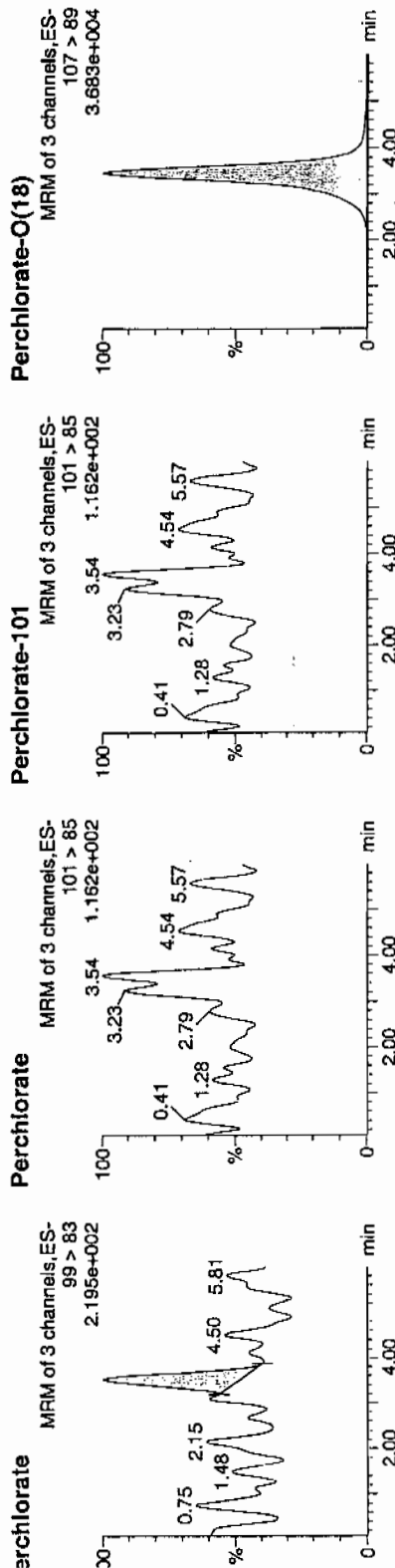
Time: 04:00:35

File: 247908002

Label: 2:5,A

03-09-10

11200-1959044 | 1202111



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
47908002	Perchlorate	99 > 83	3.52	36.374	bb			0.0008			14.724	0.00
47908002	Perchlorate-101	101 > 85										
47908002	Perchlorate-O(18)	107 > 89	3.46	17282.258	bb			0.4426	88.52%	-11.48	1304.1...	

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: 959043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8088

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013-1

GEL Sample ID: 247908003

Date Filtered: 03-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:09	per0308083a
	Perchlorate Isotope Ratio						1	09-MAR-10 04:09	per0308083a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 04:09	per0308083a
	Perchlorate-O(18)			0.435	ug/L		1	09-MAR-10 04:09	per0308083a

^ 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

uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

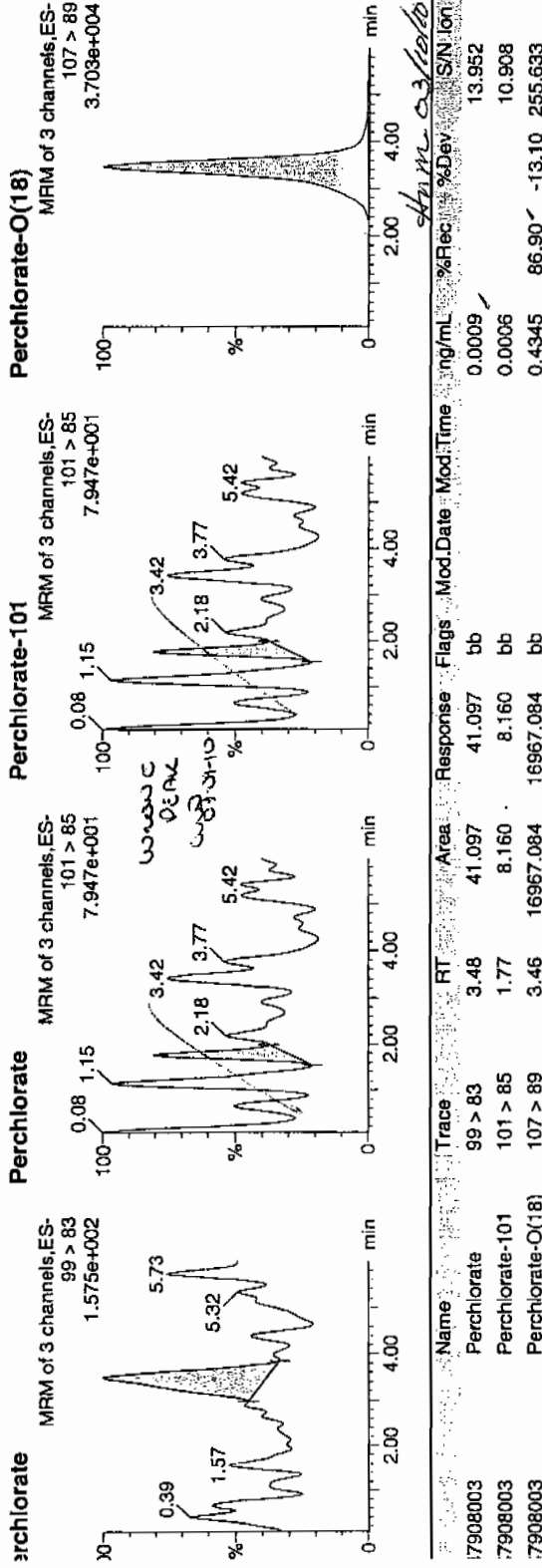
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ist Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
inted: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

ame: per0308083a
ate: 09-Mar-2010
me: 04:09:38
: 247908003
al: 2:5,B

03-09-10

12221951044 | 1222 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
7908003	Perchlorate	99 > 83	3.48	41.097	bb			0.0009	13.952	5.04		
7908003	Perchlorate-101	101 > 85	1.77	8.160	bb			0.0006	10.908			
7908003	Perchlorate-O(18)	107 > 89	3.46	16967.084	bb			0.4345	86.90	-13.10	255.633	

03/09/10
200500

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2013-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 08-MAR-10

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

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

Pername Perchlorate
 Coefficient of Determination:
 Calibration Curve: 47047.38
 Response Type: External Standard
 Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2013-1

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 08-MAR-10

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

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

Parmname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14296.94

Response Type: External Standard

Curve Type: RF

Justify Calibration Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charfers W. Wilson

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

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

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

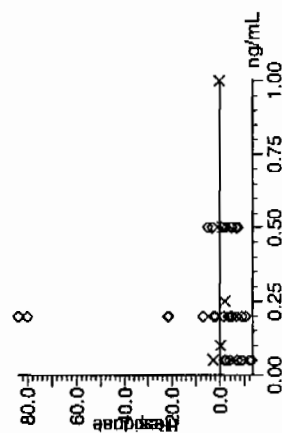
Compound name: Perchlorate

Response Factor: 47047.4

RF SD: 838.521, % Relative SD: 1.78229

Response type: External Std, Area

Curve type: RF



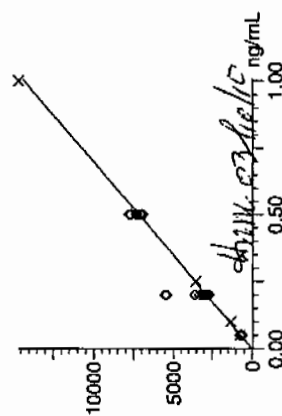
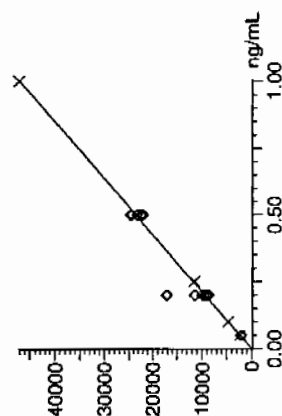
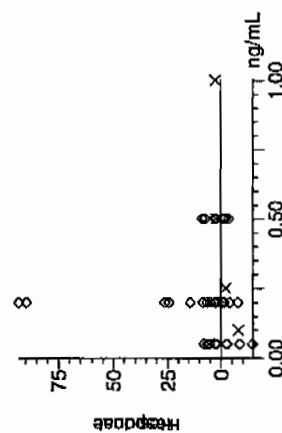
Compound name: Perchlorate-101

Response Factor: 14297

RF SD: 749.315, % Relative SD: 5.24108

Response type: External Std, Area

Curve type: RF



030810-10

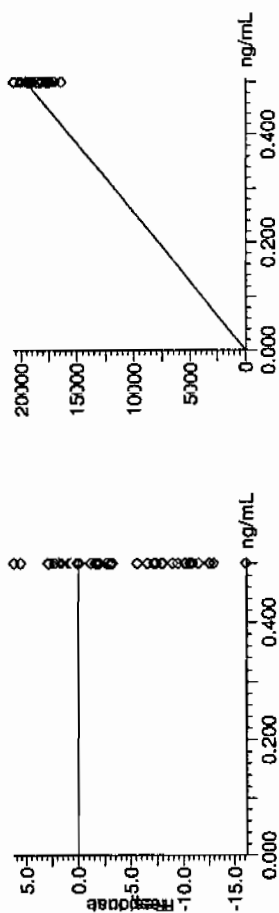
030810-10

Identify Calibration Report MassLynx 4.0 SP4
 ie GEL Group, LLC Analyst: Charlers W. Wilson

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

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

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



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013-1

Lab Code: GEL

Reporting Units: ug/L

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

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

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

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

Name: per0308009a

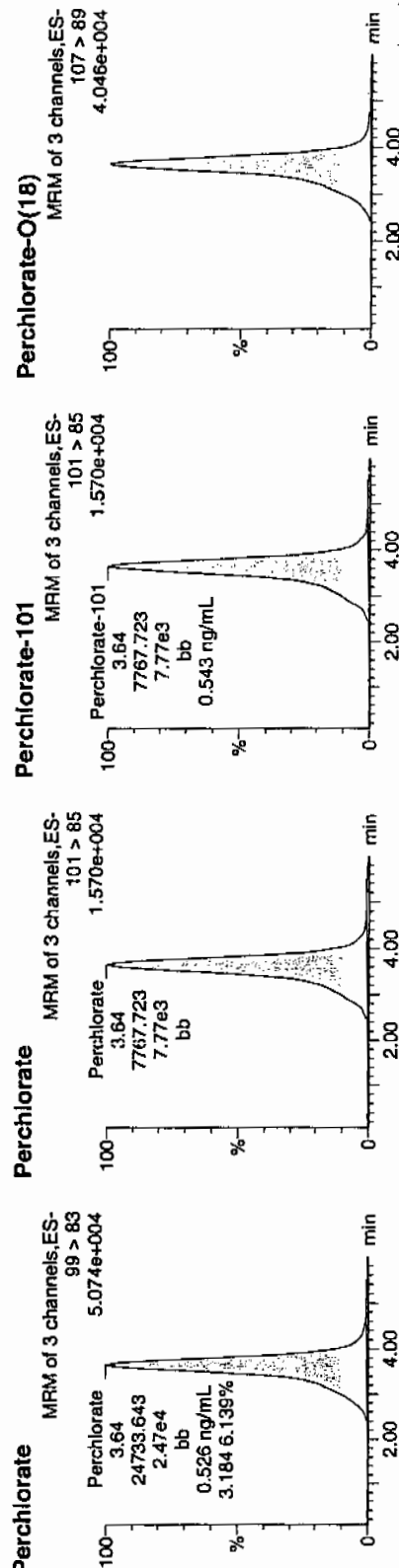
Date: 08-Mar-2010

Time: 16:57:17

D: WCL100227-06ICV

Vial: 1:2,A

Per
0.526
0.543



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

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-2013-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

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

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013-1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio		3.07		09-MAR-10 02:38	per0308073a
Perchlorate-101	.5	.51	101.9	09-MAR-10 02:38	per0308073a
Perchlorate	.5	.46	92.67	09-MAR-10 04:36	per0308086a
Perchlorate Isotope Ratio		3.1		09-MAR-10 04:36	per0308086a
Perchlorate-101	.5	.49	98.48	09-MAR-10 04:36	per0308086a

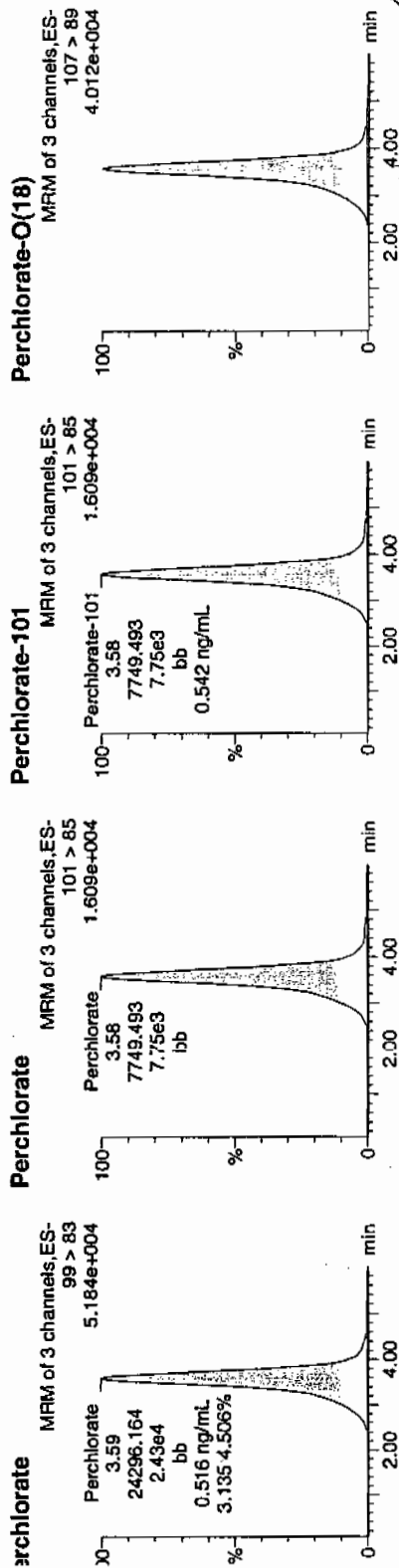
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Sample Name: per0308021a
Date: 08-Mar-2010
Time: 18:46:13
File: WCL100227-06CCV
Ali: 1:2,A

Per
0309-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-06CCV	Perchlorate	99 > 83	3.59	24296.164	bb			0.5164	103.28	3.28	2058.4...	3.14
CL100227-06CCV	Perchlorate-101	101 > 85	3.58	7749.493	bb			0.5420	108.41	8.41	842.163	
CL100227-06CCV	Perchlorate-O(18)	107 > 89	3.57	18892.500	bb			0.4838	96.76	-3.24	3961.4...	

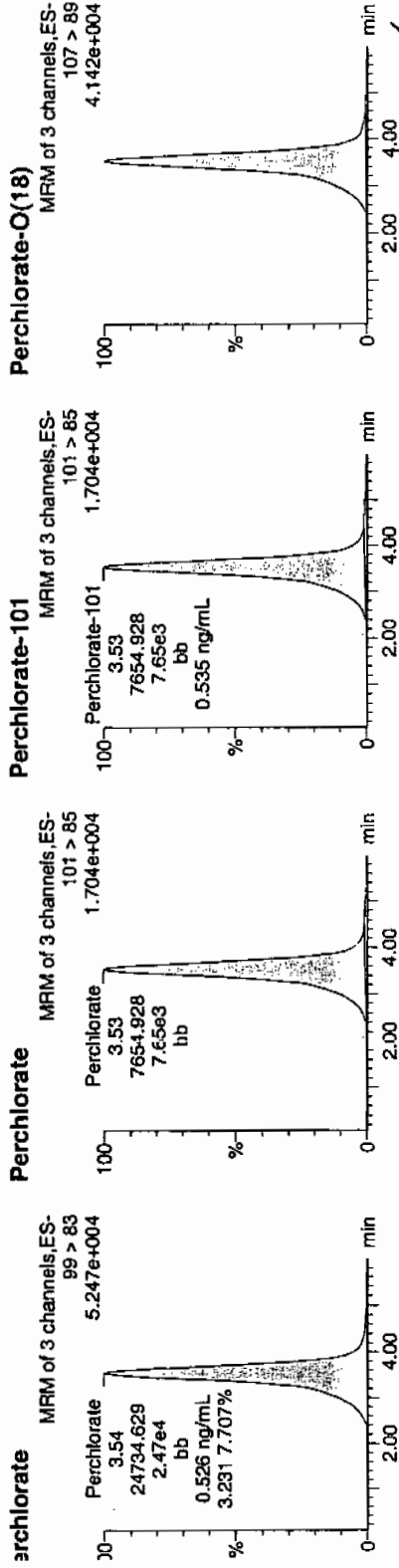
Quantity Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

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

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

Sample Name: per0308034a
Date: 08-Mar-2010
Time: 20:44:08
File: WCL100227-06CCV
Label: 1:2,A

Pure
WCL
03-29-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-06CCV	Perchlorate	3.54	24734.629	24734.629	bb			0.5257	105.15	5.15	2200.8...	3.23
CL100227-06CCV	Perchlorate-101	3.53	7654.928	7654.928	bb			0.5354	107.08	7.08	2331.6...	
CL100227-06CCV	Perchlorate-O(18)	3.53	19141.506	19141.506	bb			0.4902	98.04	-1.96	1232.7...	

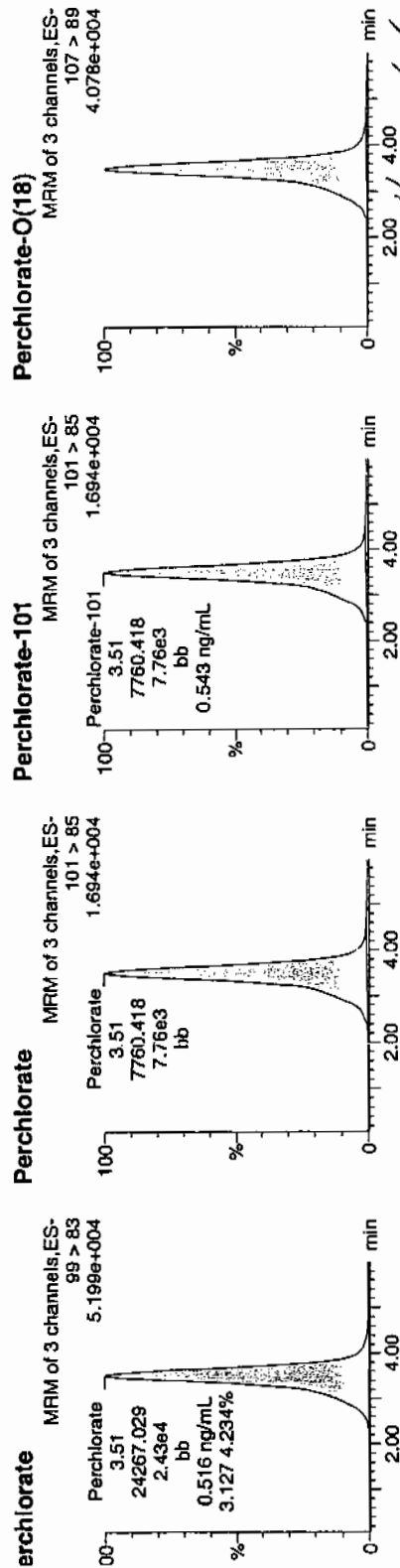
uantify Sample Report MassLynx 4.0 SP4
ne GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308047a
ate: 08-Mar-2010
ime: 22:42:18
): WCL100227-06CCV
ial: 1:2,A

Per
and
03-04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
'CL100227-06CCV	Perchlorate	99 > 83	3.51	24267.029	24267.029	bb		0.5158	103.16	3.16	1490.7...	3.13
'CL100227-06CCV	Perchlorate-101	101 > 85	3.51	7760.418	7760.418	bb		0.5428	108.56	8.56	1343.7...	
'CL100227-06CCV	Perchlorate-O(18)	107 > 89	3.50	18936.834	18936.834	bb		0.4849	96.99	-3.01	1821.0...	

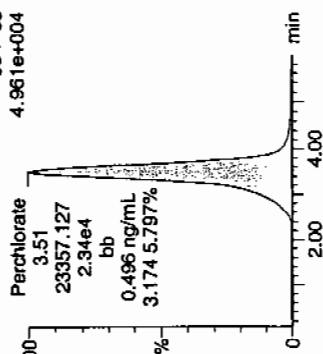
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e GEL Group, LLC Analyst: Charlers W. Wilson

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

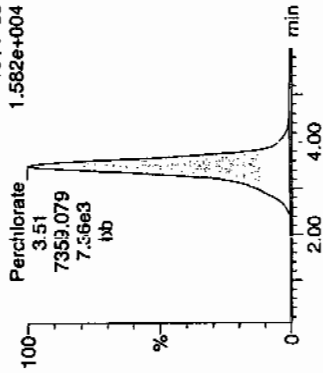
Sample Name: per0308060a
Date: 09-Mar-2010
Time: 00:40:46
File: WCL100227-06CCV
Label: 1:2,A

Pure
bms
03/01/10

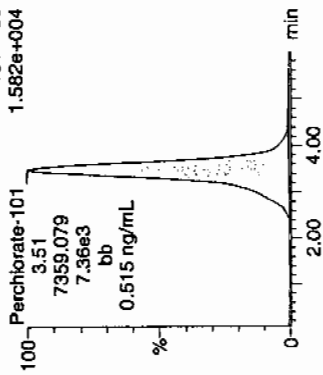
Perchlorate
MRM of 3 channels, ES-
99 > 83
4.961e+004



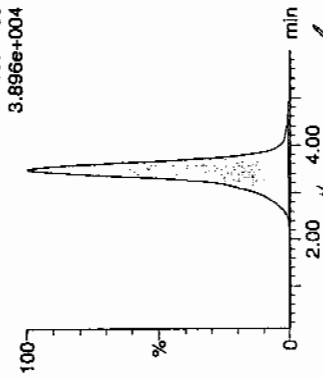
Perchlorate
MRM of 3 channels, ES-
101 > 85
1.582e+004



Perchlorate-101
MRM of 3 channels, ES-
101 > 85
1.582e+004



Perchlorate-O(18)
MRM of 3 channels, ES-
107 > 89
3.896e+004



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-06CCV	Perchlorate	3.51	23357.127	23357.127	bb			0.4965	99.29	-0.71	1630.4...	3.17
CL100227-06CCV	Perchlorate-101	3.51	7359.079	7359.079	bb			0.5147	102.95	2.95	1965.3...	
CL100227-06CCV	Perchlorate-O(18)	3.48	18080.102	18080.102	bb			0.4630	92.60	-7.40	1265.2...	

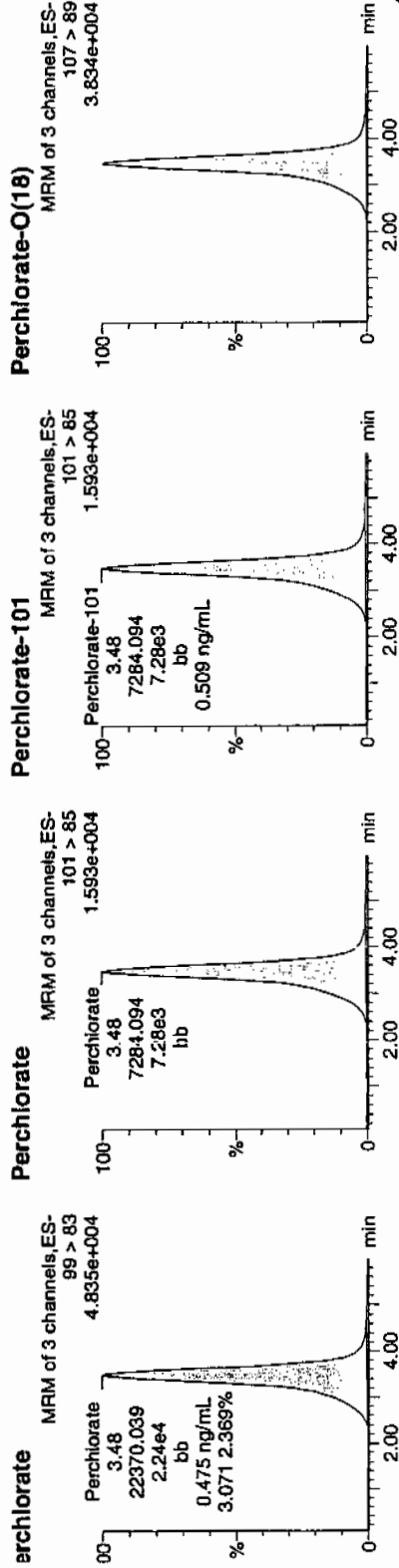
uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

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

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

ame: per0308073a
ate: 09-Mar-2010
ime: 02:38:45
i: WCL100227-06CCV
ial: 1:2,A

Pur
www
03-04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100227-06CCV	Perchlorate	3.48	22370.039	22370.039	bb			0.4755	95.10	-4.90	2051.0...	3.07
/CL100227-06CCV	Perchlorate-101	3.48	7284.094	7284.094	bb			0.5095	101.90	1.90	930.289	
/CL100227-06CCV	Perchlorate-O(18)	3.47	17683.076	17683.076	bb			0.4528	90.57	-9.43	2477.5...	

Handwritten: 03/04/10

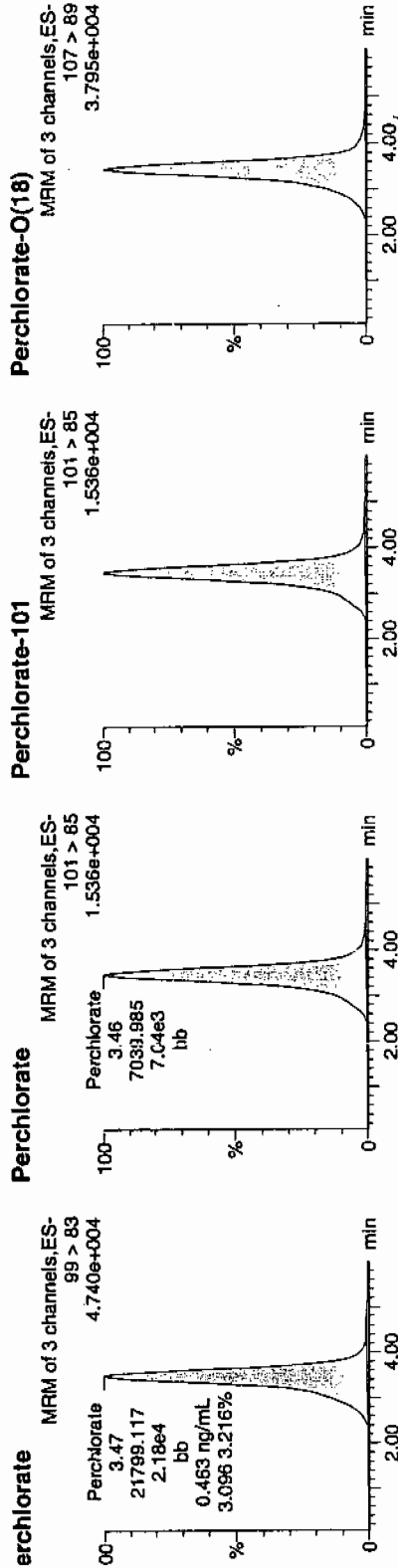
Quantify Sample Report MassLynx 4.0 SP4
 GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Sample Name: per0308086a
 Date: 09-Mar-2010
 Time: 04:36:48
 File: WCL100227-06CCV
 Label: 1:2,A

Perchlorate
3.795e+004



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100227-06CCV	Perchlorate	3.47	21799.117	21799.117	bb			0.4633	92.67	-7.33	1295.8...	3.10
/CL100227-06CCV	Perchlorate-101	3.46	7039.985	7039.985	bb			0.4924	98.48	-1.52	178.389	
/CL100227-06CCV	Perchlorate-O(18)	3.45	17451.631	17451.631	bb			0.4469	89.38	-10.62	1763.3...	

MM-03/10/10

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2013-1

Lab Code: GEL

Reporting Units: ug/L

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

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2013-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

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

uantify Sample Report MassLynx 4.0 SP4

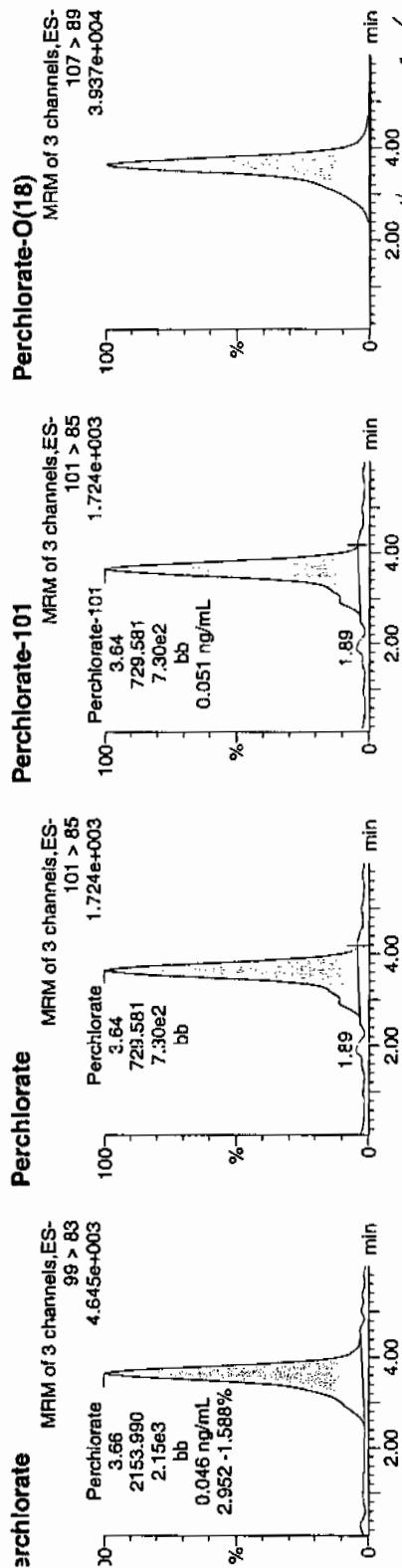
ne GEL Group, LLC Analyst: Charles W. Wilson

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

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

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ate: 08-Mar-2010
ime: 17:15:29
i: WCL100227-07CRI
al: 1:2,B

Per
03.09.10



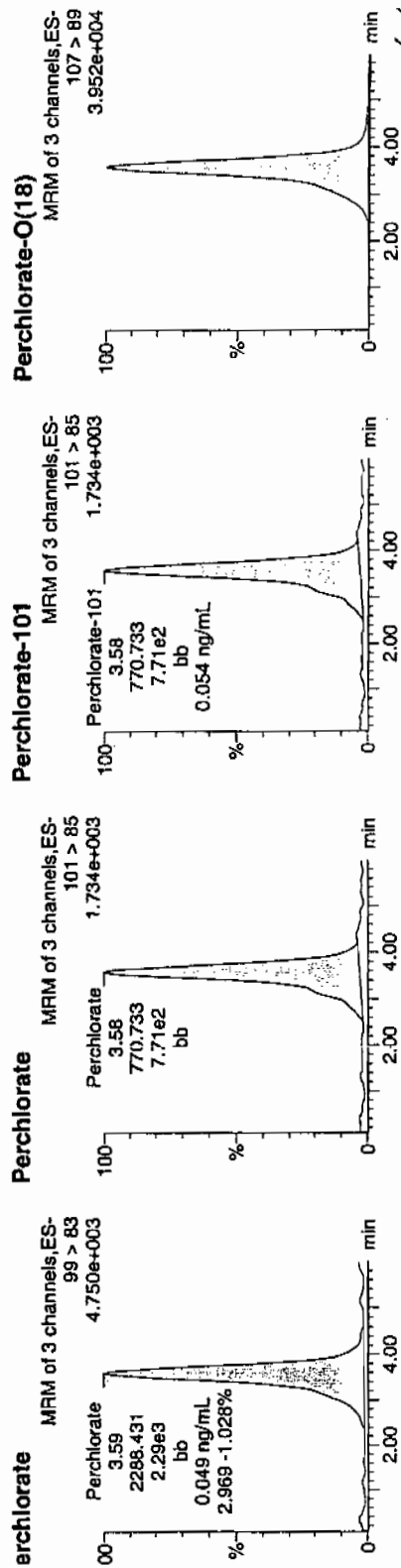
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CL100227-07CRI	Perchlorate	99 > 83	3.66	2153.990	bb			0.0458	91.57	-8.43	192.273	2.95
CL100227-07CRI	Perchlorate-101	101 > 85	3.64	729.581	bb			0.0510	102.06	2.06	143.835	
CL100227-07CRI	Perchlorate-O(18)	107 > 89	3.63	19505.877	bb			0.4995	99.90	-0.10	1304.1...	

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

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

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

ame: per0308023a
ate: 08-Mar-2010
ime: 19:04:27
): WCL100227-07CRI
ial: 1:2,B



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-07CRI	Perchlorate	99 > 83	3.58	2288.431	bb			0.0486	97.28	-2.72	379.669	2.97
CL100227-07CRI	Perchlorate-101	101 > 85	3.58	770.733	bb			0.0539	107.82	7.82	84.015	
CL100227-07CRI	Perchlorate-O(18)	107 > 89	3.57	18985.990	bb			0.4862	97.24	-2.76	3992.9...	

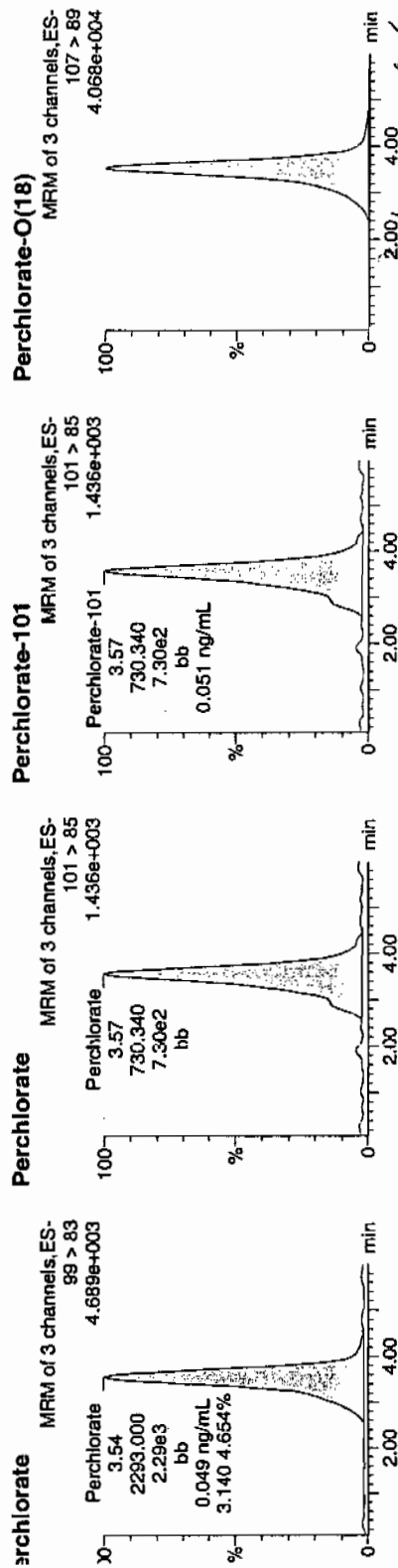
uantify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charlers W. Wilson

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

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

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 ate: 08-Mar-2010
 me: 21:02:14
 i: WCL100227-07CRI
 al: 1:2,B

*Per
 03-04-10*



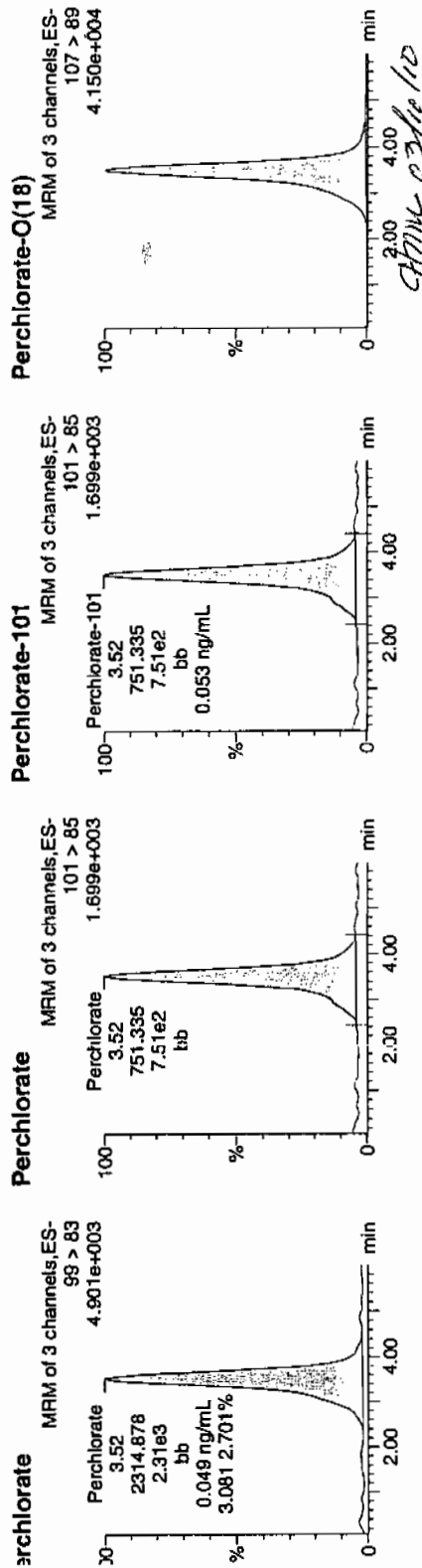
Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-07CRI	Perchlorate	3.54	2293.000	2293.000	bb			0.0487	97.48	-2.52	112.560	3.14
CL100227-07CRI	Perchlorate-101	3.57	730.340	730.340	bb			0.0511	102.17	2.17	21.006	
CL100227-07CRI	Perchlorate-O(18)	3.53	19152.959	19152.959	bb			0.4905	98.10	-1.90	2778.2...	

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

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

Sample Name: per0308049a
 Date: 08-Mar-2010
 Time: 23:00:24
 File: WCL100227-07CRI
 Label: 1:2,B

*Per
 CWS
 0309-10*



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-07CRI	Perchlorate	99 > 83	3.52	2314.878	bb			0.0492	98.41	-1.59	318.865	3.08
CL100227-07CRI	Perchlorate-101	101 > 85	3.52	751.335	bb			0.0526	105.10	5.10	86.661	
CL100227-07CRI	Perchlorate-O(18)	107 > 89	3.51	19220.762	bb			0.4922	98.44	-1.56	1856.7...	

Identify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charlers W. Wilson

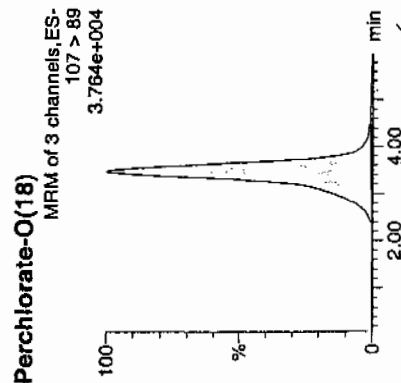
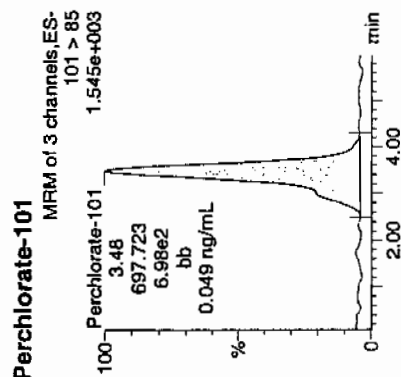
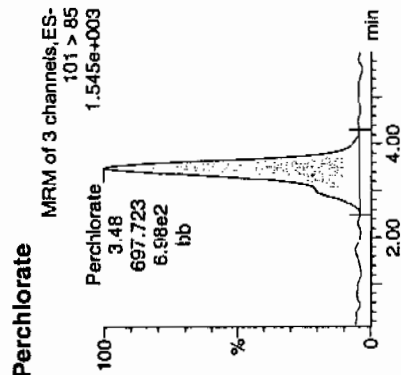
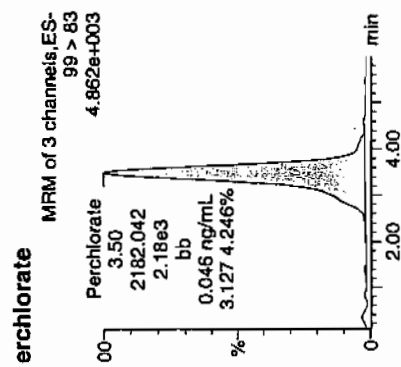
Page 62 of 139

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

ame: per0308062a
 ate: 09-Mar-2010
 ime: 00:59:13
): WCL100227-07CRI
 ial: 1:2,B

Run
WCL 03-04-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100227-07CRI	Perchlorate	99 > 83	3.50	2182.042	bb			0.0464	92.76	-7.24	176.942	3.13
/CL100227-07CRI	Perchlorate-101	101 > 85	3.48	697.723 ✓	bb			0.0488	97.60	-2.40	55.243	
/CL100227-07CRI	Perchlorate-O(18)	107 > 89	3.47	17393.770	bb			0.4454	89.09	-10.91	764.961	

Quantify Sample Report MassLynx 4.0 SP4

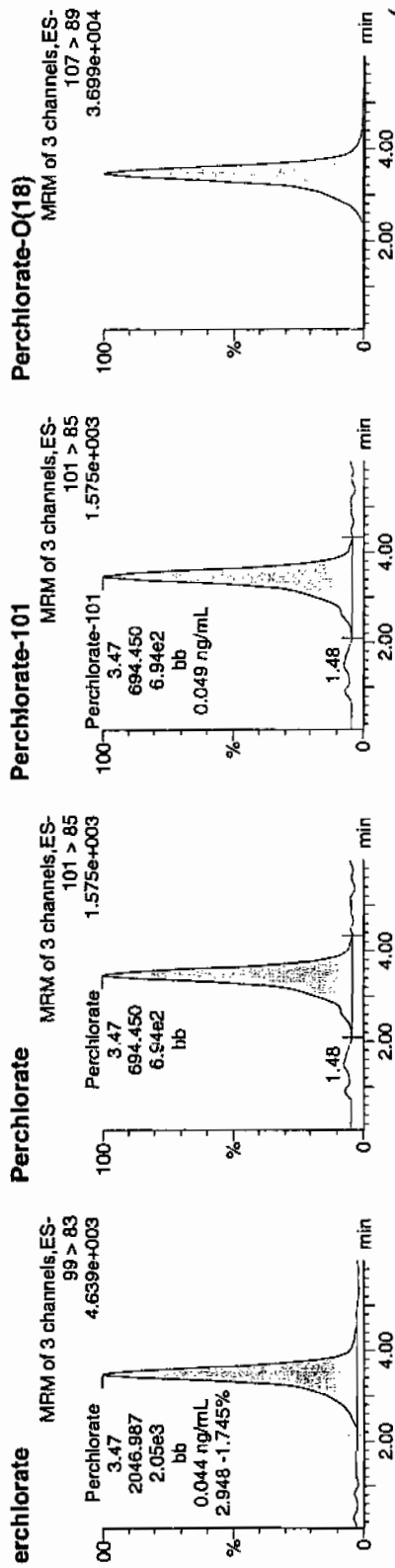
he GEL Group, LLC Analyst: Charfers W. Wilson

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

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

lame: per0308075a
late: 09-Mar-2010
ime: 02:57:04
): WCL100227-07CRI
ial: 1:2,B

Pure and 03-09-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100227-07CRI	Perchlorate	99 > 83	3.47	2046.987	bb			0.0435	87.02	-12.98	175.388	2.95
CL100227-07CRI	Perchlorate-101	101 > 85	3.47	694.450	bb			0.0486	97.15	-2.85	110.840	
CL100227-07CRI	Perchlorate-O(18)	107 > 89	3.47	17056.256	bb			0.4368	87.36	-12.64	2127.1...	

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

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

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

Filename: per0308088a

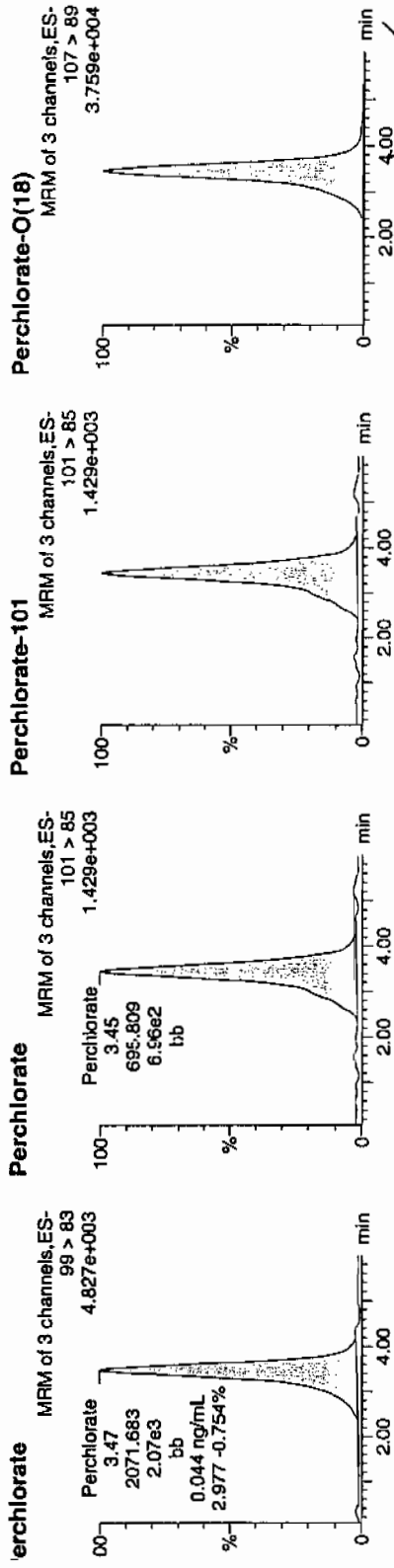
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Time: 04:55:08

Sample: WCL100227-07CRI

Label: 1:2,B

*Perchlorate
and
03-09-10*



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100227-07CRI	Perchlorate	3.47	2071.683	2071.683	bb			0.0440	88.07	-11.93	130.882	2.98
/CL100227-07CRI	Perchlorate-101	3.45	695.809	695.809	bb			0.0487	97.34	-2.66	110.757	
/CL100227-07CRI	Perchlorate-O(18)	3.45	17290.361	17290.361	bb			0.4428	88.56	-11.44	1467.3...	

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 959043
 Extraction Type: Filter/DAI
 Client Sample No. MB
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 1202056710
 Date Filtered: 03-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	09-MAR-10 03:06	per0308076a
	Perchlorate Isotope Ratio						1	09-MAR-10 03:06	per0308076a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:06	per0308076a
	Perchlorate-O(18)			0.405	ug/L		1	09-MAR-10 03:06	per0308076a

[^] 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\per030810a.qld

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

Sample Name: per0308076a

Date: 09-Mar-2010

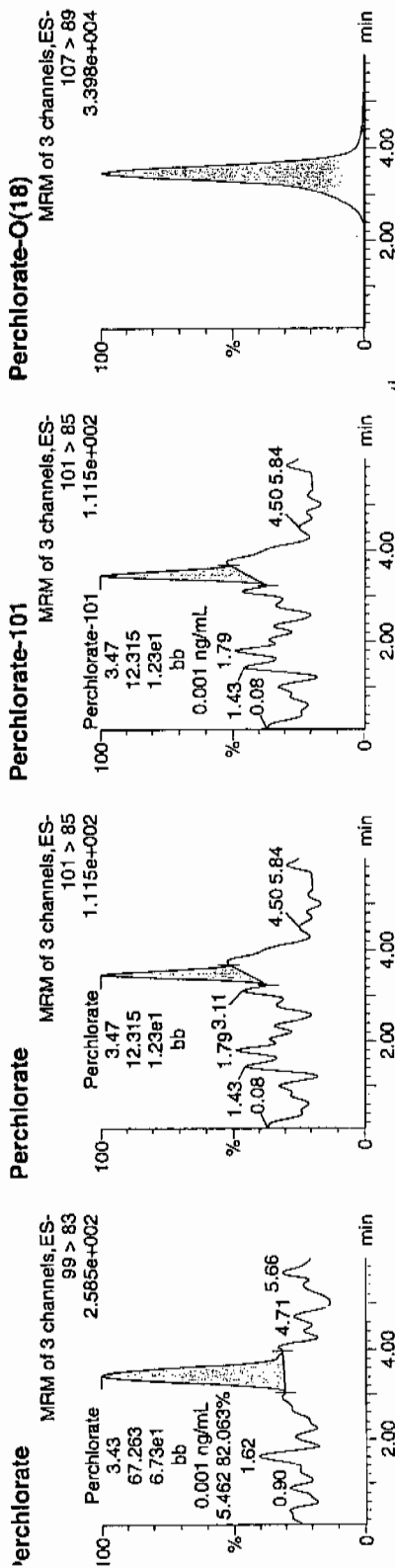
Time: 03:06:09

ID: 1202056710

File: 2:4.A

030810

1202056710 | 1202056710 | 1202056710



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
202056710	Perchlorate	99 > 83	3.43	67.263	67.263	bb			0.0014	-		6.443	5.46
202056710	Perchlorate-101	101 > 85	3.47	12.315	12.315	bb			0.0009			11.909	
202056710	Perchlorate-O(18)	107 > 89	3.47	15825.627	15825.627	bb			0.4053	81.06	-18.94	2133.7...	

Analyte 03/10/10

0.0014
0.0009
0.4053

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: WATER
 Extraction Batch ID: 959043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0

Client Sample No. LCS
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 1202056711
 Date Filtered: 03-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	0.179	ug/L	J	1	09-MAR-10 03:15	per0308077a
	Perchlorate Isotope Ratio			3.2			1	09-MAR-10 03:15	per0308077a
14797-73-0	Perchlorate-101	.05	.2	0.184	ug/L	J	1	09-MAR-10 03:15	per0308077a
	Perchlorate-O(18)			0.419	ug/L		1	09-MAR-10 03:15	per0308077a

[^] 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

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

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

Name: per0308077a

Date: 09-Mar-2010

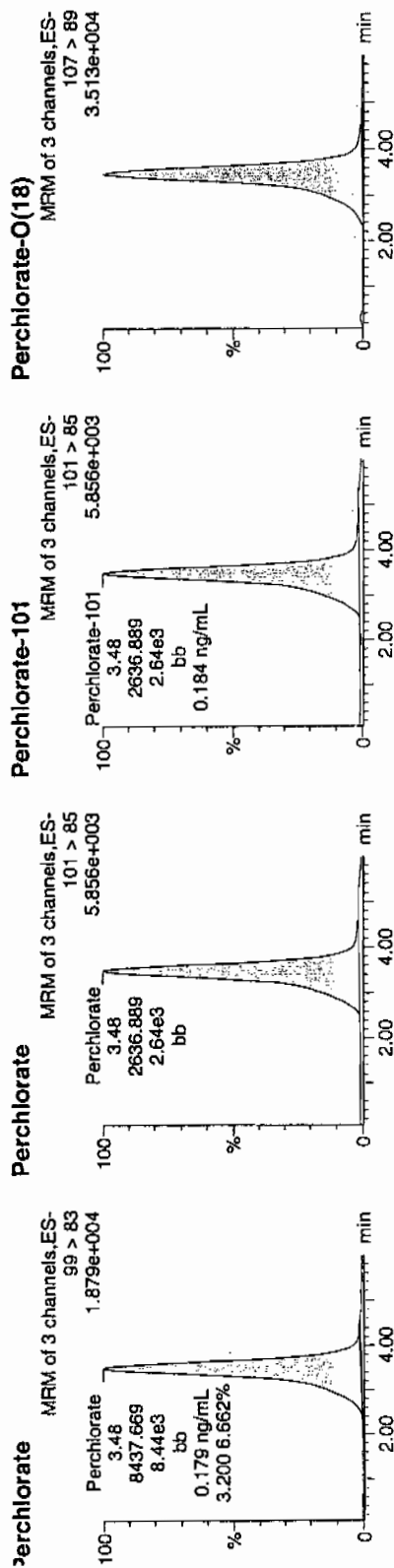
Time: 03:15:24

D: 1202056711

Vial: 2:4,B

W
03-08-10

1202056711 | 1202056711



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056711	Perchlorate	99 > 83	3.48	8437.669	8437.669	bb			0.1793	89.67	-10.33	777.875	3.20
1202056711	Perchlorate-101	101 > 85	3.48	2636.889	2636.889	bb			0.1844	92.22	-7.78	581.015	
1202056711	Perchlorate-O(18)	107 > 89	3.47	16378.867	16378.867	bb			0.4194	83.89	-16.11	1862.2...	

$$\frac{8437.669}{47047.4} = 0.1793$$

Time 03/08/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 959043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8089MS

Date Received: 24-FEB-10

GEL Job No (SDG): 10-2013-1

GEL Sample ID: 1202056712

Date Filtered: 03-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	0.182	ug/L	J	1	09-MAR-10 03:42	per0308080a
	Perchlorate Isotope Ratio			3.13			1	09-MAR-10 03:42	per0308080a
14797-73-0	Perchlorate-101	.05	.2	0.192	ug/L	J	1	09-MAR-10 03:42	per0308080a
	Perchlorate-O(18)			0.438	ug/L		1	09-MAR-10 03:42	per0308080a

[^] 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

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

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

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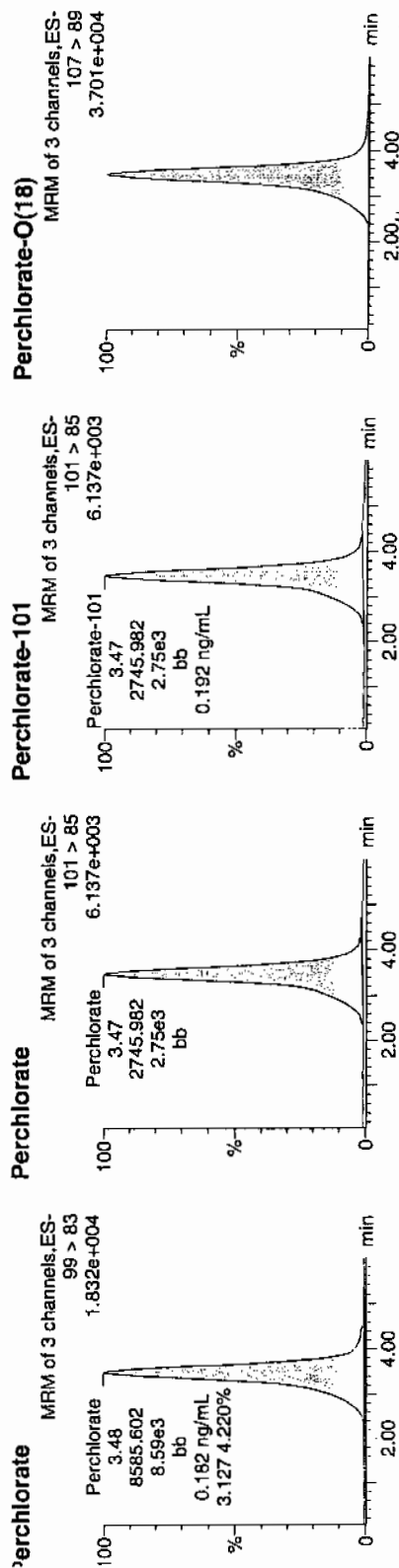
Date: 09-Mar-2010

Time: 03:42:32

D: 1202056712

File: 2:4,E

12726 | 959044 | 1202 | MS | 11 | 03-01-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
202056712	Perchlorate	99 > 83	3.48	8585.602	bb			0.1825	91.24	-8.76	461.605	3.13
202056712	Perchlorate-101	101 > 85	3.47	2745.982	bb			0.1921	96.03	-3.97	713.591	
202056712	Perchlorate-O(18)	107 > 89	3.47	17092.297	bb			0.4377	87.54	-12.46	2059.9...	

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 959043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-8089MSD
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-2013-1
 GEL Sample ID: 1202056713
 Date Filtered: 03-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	0.190	ug/L	J	1	09-MAR-10 03:51	per0308081a
	Perchlorate Isotope Ratio			3.16			1	09-MAR-10 03:51	per0308081a
14797-73-0	Perchlorate-101	.05	.2	0.199	ug/L	J	1	09-MAR-10 03:51	per0308081a
	Perchlorate-O(18)			0.447	ug/L		1	09-MAR-10 03:51	per0308081a

[^] 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
 he GEL Group, LLC Analyst: Charlers W. Wilson

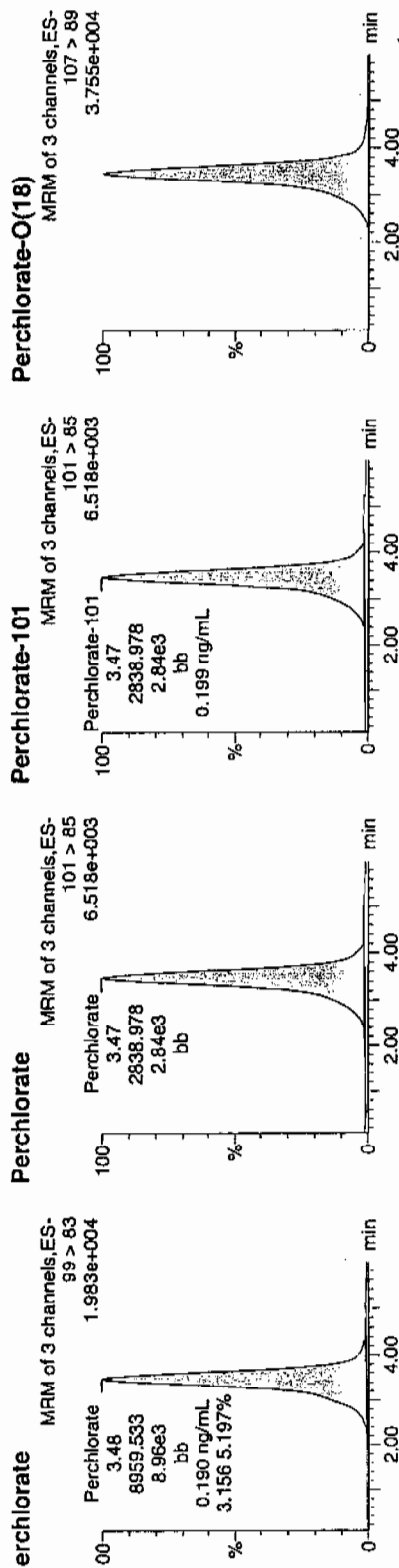
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Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
 Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Sample Name: per0308081a
 Date: 09-Mar-2010
 Time: 03:51:33
 ID: 1202056713
 Label: 2:4.F

6.51
 03-09-10

1222-1959044 | 1222 | 1250 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
202056713	Perchlorate	99 > 83	3.48	8959.533	bb			0.1904	95.22	-4.78	665.323	3.16
202056713	Perchlorate-101	101 > 85	3.47	2838.978	bb			0.1986	99.29	-0.71	597.531	
202056713	Perchlorate-O(18)	107 > 89	3.46	17463.715	bb			0.4472	89.45	-10.55	1013.9...	

Handwritten: 03/09/10

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: 959043 Verified by: Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Kaylie Westmoreland Instrument: MicroMass Quatro Ultima
 Method: SWS46 6850 Modified

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)	Spike Amt	Units	Comments:
1202056710 MB	03-MAR-2010 16:50:00	10	10	1			
1202056711 LCS	03-MAR-2010 16:50:00	10	10	1			
247908001	03-MAR-2010 16:50:00	10	10	1			
1202056712 NS (247908001)	03-MAR-2010 16:50:00	10	10	1			
1202056713 MSD (247908001)	03-MAR-2010 16:50:00	10	10	1			
247908002	03-MAR-2010 16:50:00	10	10	1			
247908003	03-MAR-2010 16:50:00	10	10	1			
247919001	03-MAR-2010 16:50:00	10	10	1			
247919002	03-MAR-2010 16:50:00	10	10	1			
247922004	03-MAR-2010 16:50:00	10	10	1			
247927001	03-MAR-2010 16:50:00	10	10	1			
248001001	03-MAR-2010 16:50:00	10	10	1			
248019001	03-MAR-2010 16:50:00	10	10	1			
248019002	03-MAR-2010 16:50:00	10	10	1			
248034001	03-MAR-2010 16:50:00	10	10	1			
248038001	03-MAR-2010 16:50:00	10	10	1			
248038002	03-MAR-2010 16:50:00	10	10	1			
248039001	03-MAR-2010 16:50:00	10	10	1			
248046001	03-MAR-2010 16:50:00	10	10	1			
248046002	03-MAR-2010 16:50:00	10	10	1			
248053001	03-MAR-2010 16:50:00	10	10	1			
248053002	03-MAR-2010 16:50:00	10	10	1			
248053003	03-MAR-2010 16:50:00	10	10	1			
1202056714 LCS	03-MAR-2010 16:50:00	10	10	1			
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:	
LCS	1202056714	10 ug/L ICV/CCV Second Source	LCCL00210-02.2	2	mL	Desalting cartridges used: 100217-1-H & 100304-1-Ba	
LCS	1202056711	10 ug/L ICV/CCV Second Source	LCCL00210-02.2	2	mL		
NS	1202056712	10 ug/L ICV/CCV Second Source	LCCL00210-02.2	2	mL		
MSD	1202056713	10 ug/L ICV/CCV Second Source	LCCL00210-02.2	2	mL		
ICVNT All		500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1267890	10	mL		
ICVNT All		0.25% HPLC Grade Water	1271949	10	mL		

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCM SMS#2

Date: 03/07/10
 Extr. Injection Volume: 20uL
 Sequence Number: per030710a
 Initial Calibration Date: 03/07/10

Method: EPA 6850-Modified
 Int. Std.: UCL100126-01
 Mobile Phase Lot#: 1278668, 1271949
 Standard-Samp Reagent Lot#: 1271949

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

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

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

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

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

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 10-2013**

Sample Analysis

Sample ID	Client ID
247907001	RE15-10-8019
247907002	RE15-10-8013
247907003	RE15-10-8026
247907004	RE15-10-8017
247907005	RE15-10-8025
247907006	RE15-10-8022
247907007	RE15-10-8014
247907008	RE15-10-8023
247907009	RE15-10-8020
247907010	RE15-10-8018
247907011	RE15-10-8015
247907012	RE15-10-8021
247907013	RE15-10-8024
247907014	RE15-10-8016
247907015	RE15-10-8065
247907016	RE15-10-8066
247907017	RE15-10-8033
1202054505	Method Blank (MB) ICP
1202054510	Laboratory Control Sample (LCS)
1202054507	247907001(RE15-10-8019L) Serial Dilution (SD)
1202054506	247907001(RE15-10-8019D) Sample Duplicate (DUP)
1202054508	247907001(RE15-10-8019S) Matrix Spike (MS)
1202054509	247907001(RE15-10-8019SD) Matrix Spike Duplicate (MSD)
1202054516	Method Blank (MB) ICP-MS
1202082287	Method Blank (MB) ICP-MS
1202054521	Laboratory Control Sample (LCS)
1202082288	Laboratory Control Sample (LCS)
1202054518	247907001(RE15-10-8019L) Serial Dilution (SD)
1202054517	247907001(RE15-10-8019D) Sample Duplicate (DUP)

1202054519	247907001(RE15-10-8019S) Matrix Spike (MS)
1202054520	247907001(RE15-10-8019SD) Matrix Spike Duplicate (MSD)
1202056121	Method Blank (MB) CVAA
1202056122	Laboratory Control Sample (LCS)
1202056125	247907001(RE15-10-8019L) Serial Dilution (SD)
1202056123	247907001(RE15-10-8019D) Sample Duplicate (DUP)
1202056124	247907001(RE15-10-8019S) Matrix Spike (MS)
1202056126	247907001(RE15-10-8019SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	958057, 958059, 969760 and 958728
Prep Batch :	958056, 958058, 969759 and 958727
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
Prep Method :	SW846 3050B and SW846 7471A Prep

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The Metals analysis-ICP was performed on a P E 5300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

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

lens voltage of 5.2.

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS analyzed with this SDG met the acceptance criteria of percent recovery with the exception of silver. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures.

Quality Control (QC) Sample Statement

The following sample was selected as the quality control (QC) sample for this SDG: 247907001 (RE15-10-8019)-ICP, ICP-MS, ICP-MS and CVAA.

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of calcium, magnesium, manganese, potassium, zinc and selenium as indicated by the "N" qualifiers.

Matrix Spike Duplicate (MSD) Recovery Statement

The percent recovery (%R) obtained from the MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MSD met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of calcium, magnesium, manganese, potassium, selenium and uranium 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 exceptions of magnesium and uranium as indicated by the "*" qualifiers.

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 aluminum, barium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, potassium, vanadium, zinc and uranium as indicated by the "*" qualifiers.

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations that are 25X the IDL/MDL for CVAA, 50X the IDL/MDL for ICP, and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS.

Preparation Information

The samples in this SDG were prepared exactly according to the cited SOP.

Miscellaneous Information**Electronic Packaging Comment**

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: DER ID 810001, 810096 and 818266. A copy is included in the Miscellaneous Data section of this package.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Nick Cole A. Elmore Date: 4.19.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907001

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8019

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4160000	ug/Kg	*	7220	21200	21200	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-36-0	Antimony	1060	ug/Kg	U	350	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-38-2	Arsenic	1.12	mg/kg	J	0.227	1.14	1.14	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-39-3	Barium	37800	ug/Kg	*	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-41-7	Beryllium	0.845	mg/kg		0.0227	0.114	0.114	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-43-9	Cadmium	233	ug/Kg	J	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-70-2	Calcium	1410000	ug/Kg	*N	8490	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-47-3	Chromium	7790	ug/Kg	*	159	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-48-4	Cobalt	1570	ug/Kg	*	159	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-50-8	Copper	16300	ug/Kg	*	318	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-89-6	Iron	8930000	ug/Kg	*	8490	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-92-1	Lead	11600	ug/Kg	*	265	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-95-4	Magnesium	828000	ug/Kg	*N	9020	31800	31800	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-96-5	Manganese	200000	ug/Kg	*N	212	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057
7439-97-6	Mercury	11	ug/kg	J	4.73	13.9	13.9	1	AV	JXL1	03/12/10 12:16	031210S1-5	958728
7440-02-0	Nickel	4.1	mg/kg		0.114	0.454	0.454	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-09-7	Potassium	716000	ug/Kg	*N	6790	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7782-49-2	Selenium	0.628	mg/kg	JN	0.568	1.14	1.14	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-22-4	Silver	531	ug/Kg	U	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-23-5	Sodium	94700	ug/Kg		7430	26500	26500	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-28-0	Thallium	0.227	mg/kg	U	0.0681	0.227	0.227	2	MS	RMJ	03/24/10 11:01	100323-3	958059
7440-61-1	Uranium	9.2	mg/kg	*N	0.0148	0.0449	0.0449	2	MS	PRB	04/15/10 19:33	100415-2	969760
7440-62-2	Vanadium	9350	ug/Kg	*	106	531	531	1	P	HSC	03/26/10 00:59	032510A-1	958057
7440-66-6	Zinc	38600	ug/Kg	*N	350	1060	1060	1	P	HSC	03/26/10 00:59	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.563	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.526	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.515	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.532	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907002

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8013

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4800000	ug/Kg	*	7370	21700	21700	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-36-0	Antimony	1080	ug/Kg	U	358	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-38-2	Arsenic	3.03	mg/kg		0.214	1.07	1.07	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-39-3	Barium	52300	ug/Kg	*	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-41-7	Beryllium	6.27	mg/kg		0.0214	0.107	0.107	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-43-9	Cadmium	150	ug/Kg	J	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-70-2	Calcium	1250000	ug/Kg	*N	8670	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-47-3	Chromium	8410	ug/Kg	*	163	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-48-4	Cobalt	2200	ug/Kg	*	163	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-50-8	Copper	64400	ug/Kg	*	325	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-89-6	Iron	8570000	ug/Kg	*	8670	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-92-1	Lead	23000	ug/Kg	*	271	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-95-4	Magnesium	852000	ug/Kg	*N	9210	32500	32500	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-96-5	Manganese	220000	ug/Kg	*N	217	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057
7439-97-6	Mercury	7.66	ug/kg	J	4.69	13.8	13.8	1	AV	JXL	03/12/10 12:27	031210S1-5	958728
7440-02-0	Nickel	7.76	mg/kg		0.107	0.428	0.428	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-09-7	Potassium	744000	ug/Kg	*N	6940	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7782-49-2	Selenium	1.07	mg/kg	UN	0.536	1.07	1.07	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-22-4	Silver	208	ug/Kg	J	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-23-5	Sodium	83600	ug/Kg		7590	27100	27100	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-28-0	Thallium	0.138	mg/kg	J	0.0643	0.214	0.214	2	MS	RMJ	03/24/10 11:21	100323-3	958059
7440-61-1	Uranium	33.7	mg/kg	*N	0.0167	0.0505	0.0505	2	MS	PRB	04/15/10 19:44	100415-2	969760
7440-62-2	Vanadium	10500	ug/Kg	*	108	542	542	1	P	HSC	03/26/10 01:48	032510A-1	958057
7440-66-6	Zinc	34800	ug/Kg	*N	358	1080	1080	1	P	HSC	03/26/10 01:48	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.589	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.596	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.555	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.506	g	50	mL	03/29/10	LYHI

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907003

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8026

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10200000	ug/Kg	*	6580	19400	19400	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-36-0	Antimony	968	ug/Kg	U	319	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-38-2	Arsenic	2.15	mg/kg		0.186	0.93	0.93	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-39-3	Barium	129000	ug/Kg	*	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-41-7	Beryllium	1.28	mg/kg		0.0186	0.093	0.093	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-43-9	Cadmium	102	ug/Kg	J	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-70-2	Calcium	2260000	ug/Kg	*N	7740	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-47-3	Chromium	15300	ug/Kg	*	145	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-48-4	Cobalt	4280	ug/Kg	*	145	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-50-8	Copper	9080	ug/Kg	*	290	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-89-6	Iron	13400000	ug/Kg	*	7740	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-92-1	Lead	9880	ug/Kg	*	242	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-95-4	Magnesium	2090000	ug/Kg	*N	8230	29000	29000	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-96-5	Manganese	323000	ug/Kg	*N	194	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057
7439-97-6	Mercury	23.2	ug/kg		3.77	11.1	11.1	1	AV	JXLI	03/12/10 12:29	031210S1-5	958728
7440-02-0	Nickel	11	mg/kg		0.093	0.372	0.372	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-09-7	Potassium	1760000	ug/Kg	*N	6190	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7782-49-2	Selenium	0.930	mg/kg	UN	0.465	0.93	0.93	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-22-4	Silver	484	ug/Kg	U	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-23-5	Sodium	348000	ug/Kg		6780	24200	24200	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-28-0	Thallium	0.178	mg/kg	J	0.0558	0.186	0.186	2	MS	RMJ	03/24/10 11:25	100323-3	958059
7440-61-1	Uranium	0.776	mg/kg	*N	0.0132	0.0401	0.0401	2	MS	PRB	04/15/10 19:46	100415-2	969760
7440-62-2	Vanadium	20900	ug/Kg	*	96.8	484	484	1	P	HSC	03/26/10 01:55	032510A-1	958057
7440-66-6	Zinc	40200	ug/Kg	*N	319	968	968	1	P	HSC	03/26/10 01:55	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.568	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.591	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.595	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.548	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907004

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8017

LEVEL: Low

DATE RECEIVED 24-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	4340000	ug/Kg	*	8310	24400	24400	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-36-0	Antimony	560	ug/Kg	J	403	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-38-2	Arsenic	1.58	mg/kg		0.241	1.2	1.2	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-39-3	Barium	54200	ug/Kg	*	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-41-7	Beryllium	4.41	mg/kg		0.0241	0.12	0.12	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-43-9	Cadmium	193	ug/Kg	J	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-70-2	Calcium	1770000	ug/Kg	*N	9780	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-47-3	Chromium	6310	ug/Kg	*	183	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-48-4	Cobalt	2430	ug/Kg	*	183	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-50-8	Copper	50200	ug/Kg	*	367	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-89-6	Iron	8570000	ug/Kg	*	9780	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-92-1	Lead	34800	ug/Kg	*	306	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-95-4	Magnesium	893000	ug/Kg	*N	10400	36700	36700	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-96-5	Manganese	252000	ug/Kg	*N	244	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057
7439-97-6	Mercury	5.58	ug/kg	J	4.57	13.5	13.5	1	AV	JXL1	03/12/10 12:31	031210S1-5	958728
7440-02-0	Nickel	5.53	mg/kg		0.12	0.482	0.482	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-09-7	Potassium	726000	ug/Kg	*N	7820	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7782-49-2	Selenium	1.2	mg/kg	UN	0.602	1.2	1.2	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-22-4	Silver	290	ug/Kg	J	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-23-5	Sodium	76300	ug/Kg		8550	30600	30600	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-28-0	Thallium	0.241	mg/kg	U	0.0723	0.241	0.241	2	MS	RMJ	03/24/10 11:29	100323-3	958059
7440-61-1	Uranium	126	mg/kg	*N	0.0175	0.053	0.053	2	MS	PRB	04/15/10 19:48	100415-2	969760
7440-62-2	Vanadium	11500	ug/Kg	*	122	611	611	1	P	HSC	03/26/10 02:02	032510A-1	958057
7440-66-6	Zinc	34500	ug/Kg	*N	403	1220	1220	1	P	HSC	03/26/10 02:02	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.545	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.553	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.594	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.503	g	50	mL	03/29/10	LYHI

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907005

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8025

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 68

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12400000	ug/Kg	*	8910	26200	26200	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-36-0	Antimony	1310	ug/Kg	U	432	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-38-2	Arsenic	1.62	mg/kg		0.275	1.37	1.37	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-39-3	Barium	106000	ug/Kg	*	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-41-7	Beryllium	0.796	mg/kg		0.0275	0.137	0.137	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-43-9	Cadmium	223	ug/Kg	J	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-70-2	Calcium	2360000	ug/Kg	*N	10500	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-47-3	Chromium	24400	ug/Kg	*	196	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-48-4	Cobalt	7130	ug/Kg	*	196	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-50-8	Copper	14600	ug/Kg	*	393	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-89-6	Iron	19700000	ug/Kg	*	10500	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-92-1	Lead	19900	ug/Kg	*	327	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-95-4	Magnesium	2850000	ug/Kg	*N	11100	39300	39300	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-96-5	Manganese	504000	ug/Kg	*N	262	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057
7439-97-6	Mercury	11.3	ug/kg	J	5.27	15.5	15.5	1	AV	JXL1	03/12/10 12:33	031210S1-5	958728
7440-02-0	Nickel	6.72	mg/kg		0.137	0.549	0.549	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-09-7	Potassium	2510000	ug/Kg	*N	8380	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7782-49-2	Selenium	1.37	mg/kg	UN	0.686	1.37	1.37	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-22-4	Silver	655	ug/Kg	U	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-23-5	Sodium	191000	ug/Kg		9170	32700	32700	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-28-0	Thallium	0.106	mg/kg	J	0.0824	0.275	0.275	2	MS	RMJ	03/24/10 11:41	100323-3	958059
7440-61-1	Uranium	2.09	mg/kg	*N	0.0167	0.0505	0.0505	2	MS	PRB	04/15/10 19:55	100415-2	969760
7440-62-2	Vanadium	34900	ug/Kg	*	131	655	655	1	P	HSC	03/26/10 02:09	032510A-1	958057
7440-66-6	Zinc	66500	ug/Kg	*N	432	1310	1310	1	P	HSC	03/26/10 02:09	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.563	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.537	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.571	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.584	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907006

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8022

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 96

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2510000	ug/Kg	*	6420	18900	18900	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-36-0	Antimony	944	ug/Kg	U	311	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-38-2	Arsenic	0.955	mg/kg		0.187	0.937	0.937	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-39-3	Barium	8660	ug/Kg	*	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-41-7	Beryllium	0.429	mg/kg		0.0187	0.0937	0.0937	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-43-9	Cadmium	472	ug/Kg	U	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-70-2	Calcium	279000	ug/Kg	*N	7550	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-47-3	Chromium	9690	ug/Kg	*	142	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-48-4	Cobalt	637	ug/Kg	*	142	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-50-8	Copper	3890	ug/Kg	*	283	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-89-6	Iron	9130000	ug/Kg	*	7550	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-92-1	Lead	6680	ug/Kg	*	236	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-95-4	Magnesium	367000	ug/Kg	*N	8020	28300	28300	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-96-5	Manganese	192000	ug/Kg	*N	189	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057
7439-97-6	Mercury	6.28	ug/kg	J	3.99	11.7	11.7	1	AV	JXL1	03/12/10 12:34	031210S1-5	958728
7440-02-0	Nickel	2.22	mg/kg		0.0937	0.375	0.375	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-09-7	Potassium	562000	ug/Kg	*N	6040	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7782-49-2	Selenium	0.937	mg/kg	UN	0.469	0.937	0.937	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-22-4	Silver	472	ug/Kg	U	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-23-5	Sodium	415000	ug/Kg		6610	23600	23600	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-28-0	Thallium	0.187	mg/kg	U	0.0562	0.187	0.187	2	MS	RMJ	03/24/10 11:45	100323-3	958059
7440-61-1	Uranium	0.893	mg/kg	*N	0.0131	0.0398	0.0398	2	MS	PRB	04/15/10 19:57	100415-2	969760
7440-62-2	Vanadium	4480	ug/Kg	*	94.4	472	472	1	P	HSC	03/26/10 02:16	032510A-1	958057
7440-66-6	Zinc	46400	ug/Kg	*N	311	944	944	1	P	HSC	03/26/10 02:16	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.552	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.556	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.533	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.524	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907007

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8014

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 94

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4900000	ug/Kg	*	6480	19100	19100	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-36-0	Antimony	953	ug/Kg	U	314	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-38-2	Arsenic	1.65	mg/kg		0.192	0.958	0.958	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-39-3	Barium	50500	ug/Kg	*	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-41-7	Beryllium	1.56	mg/kg		0.0192	0.0958	0.0958	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-43-9	Cadmium	477	ug/Kg	U	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-70-2	Calcium	1690000	ug/Kg	*N	7620	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-47-3	Chromium	6550	ug/Kg	*	143	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-48-4	Cobalt	1850	ug/Kg	*	143	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-50-8	Copper	6830	ug/Kg	*	286	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-89-6	Iron	11500000	ug/Kg	*	7620	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-92-1	Lead	9610	ug/Kg	*	238	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-95-4	Magnesium	915000	ug/Kg	*N	8100	28600	28600	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-96-5	Manganese	282000	ug/Kg	*N	191	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057
7439-97-6	Mercury	9.71	ug/kg	J	4.1	12.1	12.1	1	AV	JXL1	03/12/10 12:36	031210S1-5	958728
7440-02-0	Nickel	6.39	mg/kg		0.0958	0.383	0.383	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-09-7	Potassium	728000	ug/Kg	*N	6100	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7782-49-2	Selenium	0.728	mg/kg	JN	0.479	0.958	0.958	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-22-4	Silver	477	ug/Kg	U	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-23-5	Sodium	97900	ug/Kg		6670	23800	23800	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-28-0	Thallium	0.0834	mg/kg	J	0.0575	0.192	0.192	2	MS	RMJ	03/24/10 11:49	100323-3	958059
7440-61-1	Uranium	1.02	mg/kg	*N	0.0121	0.0368	0.0368	2	MS	PRB	04/15/10 19:59	100415-2	969760
7440-62-2	Vanadium	10700	ug/Kg	*	95.3	477	477	1	P	HSC	03/26/10 02:23	032510A-1	958057
7440-66-6	Zinc	52300	ug/Kg	*N	314	953	953	1	P	HSC	03/26/10 02:23	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.558	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.555	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.529	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.578	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907008

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8023

LEVEL: Low

DATE RECEIVED 24-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	7670000	ug/Kg	*	7540	22200	22200	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-36-0	Antimony	1110	ug/Kg	U	366	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-38-2	Arsenic	1.89	mg/kg		0.233	1.17	1.17	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-39-3	Barium	48400	ug/Kg	*	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-41-7	Beryllium	0.621	mg/kg		0.0233	0.117	0.117	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-43-9	Cadmium	555	ug/Kg	U	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-70-2	Calcium	1720000	ug/Kg	*N	8870	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-47-3	Chromium	25500	ug/Kg	*	166	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-48-4	Cobalt	3930	ug/Kg	*	166	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-50-8	Copper	7070	ug/Kg	*	333	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-89-6	Iron	13900000	ug/Kg	*	8870	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-92-1	Lead	10500	ug/Kg	*	277	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-95-4	Magnesium	1400000	ug/Kg	*N	9430	33300	33300	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-96-5	Manganese	269000	ug/Kg	*N	222	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057
7439-97-6	Mercury	18.9	ug/kg		4.9	14.4	14.4	1	AV	JXL1	03/12/10 12:38	031210S1-5	958728
7440-02-0	Nickel	4.7	mg/kg		0.117	0.467	0.467	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-09-7	Potassium	1200000	ug/Kg	*N	7100	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7782-49-2	Selenium	1.17	mg/kg	UN	0.583	1.17	1.17	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-22-4	Silver	133	ug/Kg	J	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-23-5	Sodium	116000	ug/Kg		7770	27700	27700	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-28-0	Thallium	0.0887	mg/kg	J	0.07	0.233	0.233	2	MS	RMJ	03/24/10 11:53	100323-3	958059
7440-61-1	Uranium	1.67	mg/kg	*N	0.0154	0.0466	0.0466	2	MS	PRB	04/15/10 20:02	100415-2	969760
7440-62-2	Vanadium	18700	ug/Kg	*	111	555	555	1	P	HSC	03/26/10 02:30	032510A-1	958057
7440-66-6	Zinc	46700	ug/Kg	*N	366	1110	1110	1	P	HSC	03/26/10 02:30	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.549	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.522	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.507	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.523	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907009

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8020

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 93.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5900000	ug/Kg	*	6820	20100	20100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-36-0	Antimony	1000	ug/Kg	U	331	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-38-2	Arsenic	1.23	mg/kg		0.202	1.01	1.01	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-39-3	Barium	31300	ug/Kg	*	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-41-7	Beryllium	0.80	mg/kg		0.0202	0.101	0.101	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-43-9	Cadmium	501	ug/Kg	U	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-70-2	Calcium	1340000	ug/Kg	*N	8020	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-47-3	Chromium	7200	ug/Kg	*	150	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-48-4	Cobalt	1260	ug/Kg	*	150	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-50-8	Copper	5200	ug/Kg	*	301	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-89-6	Iron	11200000	ug/Kg	*	8020	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-92-1	Lead	5900	ug/Kg	*	251	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-95-4	Magnesium	1100000	ug/Kg	*N	8530	30100	30100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-96-5	Manganese	157000	ug/Kg	*N	201	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057
7439-97-6	Mercury	19.5	ug/kg		4.14	12.2	12.2	1	AV	JXL1	03/12/10 12:39	031210S1-5	958728
7440-02-0	Nickel	4.29	mg/kg		0.101	0.403	0.403	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-09-7	Potassium	658000	ug/Kg	*N	6420	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7782-49-2	Selenium	1.01	mg/kg	UN	0.504	1.01	1.01	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-22-4	Silver	501	ug/Kg	U	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-23-5	Sodium	84700	ug/Kg		7020	25100	25100	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-28-0	Thallium	0.202	mg/kg	U	0.0605	0.202	0.202	2	MS	RMJ	03/24/10 11:57	100323-3	958059
7440-61-1	Uranium	0.438	mg/kg	*N	0.0137	0.0416	0.0416	2	MS	PRB	04/15/10 20:04	100415-2	969760
7440-62-2	Vanadium	10600	ug/Kg	*	100	501	501	1	P	HSC	03/26/10 02:38	032510A-1	958057
7440-66-6	Zinc	43000	ug/Kg	*N	331	1000	1000	1	P	HSC	03/26/10 02:38	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.531	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.525	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.512	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907010

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8018

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5180000	ug/Kg	*	7180	21100	21100	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-38-2	Arsenic	2.79	mg/kg		0.213	1.07	1.07	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-39-3	Barium	50800	ug/Kg	*	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-41-7	Beryllium	1.35	mg/kg		0.0213	0.107	0.107	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-43-9	Cadmium	528	ug/Kg	U	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-70-2	Calcium	1780000	ug/Kg	*N	8450	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-47-3	Chromium	6490	ug/Kg	*	158	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-48-4	Cobalt	2670	ug/Kg	*	158	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-50-8	Copper	8720	ug/Kg	*	317	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-89-6	Iron	11100000	ug/Kg	*	8450	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-92-1	Lead	9150	ug/Kg	*	264	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-95-4	Magnesium	969000	ug/Kg	*N	8980	31700	31700	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-96-5	Manganese	295000	ug/Kg	*N	211	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057
7439-97-6	Mercury	11.1	ug/kg	J	4.65	13.7	13.7	1	AV	JXL1	03/12/10 12:41	031210S1-5	958728
7440-02-0	Nickel	7.23	mg/kg		0.107	0.426	0.426	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-09-7	Potassium	816000	ug/Kg	*N	6760	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7782-49-2	Selenium	1.07	mg/kg	UN	0.533	1.07	1.07	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-22-4	Silver	131	ug/Kg	J	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-23-5	Sodium	68500	ug/Kg		7390	26400	26400	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-28-0	Thallium	0.116	mg/kg	J	0.0639	0.213	0.213	2	MS	RMJ	03/24/10 12:01	100323-3	958059
7440-61-1	Uranium	189	mg/kg	*N	0.0164	0.0497	0.0497	2	MS	PRB	04/15/10 20:06	100415-2	969760
7440-62-2	Vanadium	13200	ug/Kg	*	106	528	528	1	P	HSC	03/26/10 02:59	032510A-1	958057
7440-66-6	Zinc	42500	ug/Kg	*N	349	1060	1060	1	P	HSC	03/26/10 02:59	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.598	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.593	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.554	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.508	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907011

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8015

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 63

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5220000	ug/Kg	*	9910	29200	29200	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-36-0	Antimony	1460	ug/Kg	U	481	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-38-2	Arsenic	1.92	mg/kg		0.291	1.45	1.45	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-39-3	Barium	64500	ug/Kg	*	146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-41-7	Beryllium	1.68	mg/kg		0.0291	0.145	0.145	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-43-9	Cadmium	949	ug/Kg		146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-70-2	Calcium	1720000	ug/Kg	*N	11700	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-47-3	Chromium	8580	ug/Kg	*	219	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-48-4	Cobalt	2760	ug/Kg	*	219	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-50-8	Copper	91400	ug/Kg	*	437	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-89-6	Iron	10200000	ug/Kg	*	11700	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-92-1	Lead	27600	ug/Kg	*	365	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-95-4	Magnesium	982000	ug/Kg	*N	12400	43700	43700	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-96-5	Manganese	372000	ug/Kg	*N	292	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057
7439-97-6	Mercury	14.5	ug/kg	J	5.99	17.6	17.6	1	AV	JXL1	03/12/10 12:43	031210S1-5	958728
7440-02-0	Nickel	6.33	mg/kg		0.145	0.581	0.581	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-09-7	Potassium	928000	ug/Kg	*N	9330	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7782-49-2	Selenium	1.45	mg/kg	UN	0.726	1.45	1.45	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-22-4	Silver	729	ug/Kg	U	146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-23-5	Sodium	86700	ug/Kg		10200	36500	36500	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-28-0	Thallium	0.0886	mg/kg	J	0.0872	0.291	0.291	2	MS	RMJ	03/24/10 12:05	100323-3	958059
7440-61-1	Uranium	32.6	mg/kg	*N	0.0194	0.0588	0.0588	2	MS	PRB	04/15/10 20:08	100415-2	969760
7440-62-2	Vanadium	12300	ug/Kg	*	146	729	729	1	P	HSC	03/26/10 03:06	032510A-1	958057
7440-66-6	Zinc	48800	ug/Kg	*N	481	1460	1460	1	P	HSC	03/26/10 03:06	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.547	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.549	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.543	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.543	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907012

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8021

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3980000	ug/Kg	*	7500	22100	22100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-36-0	Antimony	1100	ug/Kg	U	364	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-38-2	Arsenic	0.826	mg/kg	J	0.202	1.01	1.01	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-39-3	Barium	37200	ug/Kg	*	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-41-7	Beryllium	0.496	mg/kg		0.0202	0.101	0.101	2	MS	RMJ	03/24/10 22:21	100324-4	958059
7440-43-9	Cadmium	401	ug/Kg	J	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-70-2	Calcium	1760000	ug/Kg	*N	8820	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-47-3	Chromium	9090	ug/Kg	*	165	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-48-4	Cobalt	1280	ug/Kg	*	165	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-50-8	Copper	16300	ug/Kg	*	331	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-89-6	Iron	9790000	ug/Kg	*	8820	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-92-1	Lead	15500	ug/Kg	*	276	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-95-4	Magnesium	700000	ug/Kg	*N	9380	33100	33100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-96-5	Manganese	243000	ug/Kg	*N	221	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057
7439-97-6	Mercury	17	ug/kg		4.01	11.8	11.8	1	AV	JXL1	03/12/10 12:48	031210S1-5	958728
7440-02-0	Nickel	2.67	mg/kg		0.101	0.404	0.404	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-09-7	Potassium	728000	ug/Kg	*N	7060	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7782-49-2	Selenium	1.01	mg/kg	UN	0.506	1.01	1.01	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-22-4	Silver	141	ug/Kg	J	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-23-5	Sodium	204000	ug/Kg		7720	27600	27600	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-28-0	Thallium	0.202	mg/kg	U	0.0607	0.202	0.202	2	MS	RMJ	03/24/10 12:18	100323-3	958059
7440-61-1	Uranium	11.3	mg/kg	*N	0.0138	0.0417	0.0417	2	MS	PRB	04/15/10 20:10	100415-2	969760
7440-62-2	Vanadium	7440	ug/Kg	*	110	551	551	1	P	HSC	03/26/10 03:13	032510A-1	958057
7440-66-6	Zinc	43100	ug/Kg	*N	364	1100	1100	1	P	HSC	03/26/10 03:13	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.576	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.593	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.559	g	50	mL	03/29/10	LYIII

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907013

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8024

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8910000	ug/Kg	*	7400	21800	21800	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-36-0	Antimony	1090	ug/Kg	U	359	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-38-2	Arsenic	4.11	mg/kg		0.213	1.06	1.06	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-39-3	Barium	344000	ug/Kg	*	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-41-7	Beryllium	1.9	mg/kg		0.0213	0.106	0.106	2	MS	RMJ	03/24/10 22:24	100324-4	958059
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-70-2	Calcium	2080000	ug/Kg	*N	8710	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-47-3	Chromium	35200	ug/Kg	*	163	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-48-4	Cobalt	3390	ug/Kg	*	163	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-50-8	Copper	7480	ug/Kg	*	327	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-89-6	Iron	12300000	ug/Kg	*	8710	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-92-1	Lead	9890	ug/Kg	*	272	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-95-4	Magnesium	1790000	ug/Kg	*N	9260	32700	32700	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-96-5	Manganese	225000	ug/Kg	*N	218	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057
7439-97-6	Mercury	31.7	ug/kg		4.28	12.6	12.6	1	AV	JXL1	03/12/10 12:49	031210S1-5	958728
7440-02-0	Nickel	14.9	mg/kg		0.106	0.425	0.425	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-09-7	Potassium	1180000	ug/Kg	*N	6970	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7782-49-2	Selenium	1.06	mg/kg	UN	0.531	1.06	1.06	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-22-4	Silver	544	ug/Kg	U	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-23-5	Sodium	122000	ug/Kg		7620	27200	27200	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-28-0	Thallium	0.197	mg/kg	J	0.0638	0.213	0.213	2	MS	RMJ	03/24/10 12:22	100323-3	958059
7440-61-1	Uranium	0.783	mg/kg	*N	0.0135	0.041	0.041	2	MS	PRB	04/15/10 20:13	100415-2	969760
7440-62-2	Vanadium	17600	ug/Kg	*	109	544	544	1	P	HSC	03/26/10 03:20	032510A-1	958057
7440-66-6	Zinc	35300	ug/Kg	*N	359	1090	1090	1	P	HSC	03/26/10 03:20	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.541	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.548	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.561	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907014

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8016

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 90.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4380000	ug/Kg	*	6340	18600	18600	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-36-0	Antimony	932	ug/Kg	U	307	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-38-2	Arsenic	1.52	mg/kg		0.219	1.09	1.09	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-39-3	Barium	32100	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-41-7	Beryllium	1.01	mg/kg		0.0219	0.109	0.109	2	MS	RMJ	03/24/10 22:26	100324-4	958059
7440-43-9	Cadmium	466	ug/Kg	U	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-70-2	Calcium	999000	ug/Kg	*N	7450	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-47-3	Chromium	14800	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-48-4	Cobalt	1490	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-50-8	Copper	5170	ug/Kg	*	280	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-89-6	Iron	10400000	ug/Kg	*	7450	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-92-1	Lead	7470	ug/Kg	*	233	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-95-4	Magnesium	773000	ug/Kg	*N	7920	28000	28000	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-96-5	Manganese	282000	ug/Kg	*N	186	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057
7439-97-6	Mercury	18.3	ug/kg		4.27	12.6	12.6	1	AV	JXL1	03/12/10 12:51	031210S1-5	958728
7440-02-0	Nickel	6.89	mg/kg		0.109	0.438	0.438	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-09-7	Potassium	615000	ug/Kg	*N	5960	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7782-49-2	Selenium	1.09	mg/kg	UN	0.547	1.09	1.09	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-22-4	Silver	162	ug/Kg	J	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-23-5	Sodium	124000	ug/Kg		6520	23300	23300	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-28-0	Thallium	0.079	mg/kg	J	0.0657	0.219	0.219	2	MS	RMJ	03/24/10 12:26	100323-3	958059
7440-61-1	Uranium	0.881	mg/kg	*N	0.0123	0.0373	0.0373	2	MS	PRB	04/15/10 20:19	100415-2	969760
7440-62-2	Vanadium	11100	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:27	032510A-1	958057
7440-66-6	Zinc	44700	ug/Kg	*N	307	932	932	1	P	HSC	03/26/10 03:27	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.592	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.504	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.527	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.591	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907015

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8065

LEVEL: Low

DATE RECEIVED 24-FEB-10

MATRIX: SOIL

%SOLIDS: 90.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4920000	ug/Kg	*	6340	18600	18600	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-36-0	Antimony	932	ug/Kg	U	308	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-38-2	Arsenic	1.48	mg/kg		0.219	1.1	1.1	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-39-3	Barium	36800	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-41-7	Beryllium	1.13	mg/kg		0.0219	0.11	0.11	2	MS	RMJ	03/24/10 22:29	100324-4	958059
7440-43-9	Cadmium	466	ug/Kg	U	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-70-2	Calcium	1460000	ug/Kg	*N	7460	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-47-3	Chromium	5790	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-48-4	Cobalt	1300	ug/Kg	*	140	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-50-8	Copper	8600	ug/Kg	*	280	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-89-6	Iron	9300000	ug/Kg	*	7460	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-92-1	Lead	8020	ug/Kg	*	233	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-95-4	Magnesium	923000	ug/Kg	*N	7920	28000	28000	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-96-5	Manganese	282000	ug/Kg	*N	186	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057
7439-97-6	Mercury	12.9	ug/kg	J	4.49	13.2	13.2	1	AV	JXL1	03/12/10 12:53	031210S1-5	958728
7440-02-0	Nickel	5.09	mg/kg		0.11	0.438	0.438	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-09-7	Potassium	725000	ug/Kg	*N	5960	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7782-49-2	Selenium	1.1	mg/kg	UN	0.548	1.1	1.1	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-22-4	Silver	137	ug/Kg	J	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-23-5	Sodium	72100	ug/Kg		6520	23300	23300	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-28-0	Thallium	0.219	mg/kg	U	0.0657	0.219	0.219	2	MS	RMJ	03/24/10 12:30	100323-3	958059
7440-61-1	Uranium	2.79	mg/kg	*N	0.0135	0.041	0.041	2	MS	PRB	04/15/10 20:22	100415-2	969760
7440-62-2	Vanadium	8740	ug/Kg	*	93.2	466	466	1	P	HSC	03/26/10 03:34	032510A-1	958057
7440-66-6	Zinc	44700	ug/Kg	*N	308	932	932	1	P	HSC	03/26/10 03:34	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.591	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.503	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.5	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.537	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907016

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8066

LEVEL: Low

DATE RECEIVED 24-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	12300000	ug/Kg	*	7930	23300	23300	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-36-0	Antimony	1170	ug/Kg	U	385	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-38-2	Arsenic	2.05	mg/kg		0.235	1.17	1.17	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-39-3	Barium	101000	ug/Kg	*	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-41-7	Beryllium	1.16	mg/kg		0.0235	0.117	0.117	2	MS	RMJ	03/24/10 22:31	100324-4	958059
7440-43-9	Cadmium	583	ug/Kg	U	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-70-2	Calcium	3030000	ug/Kg	*N	9330	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-47-3	Chromium	28400	ug/Kg	*	175	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-48-4	Cobalt	6380	ug/Kg	*	175	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-50-8	Copper	16000	ug/Kg	*	350	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-89-6	Iron	18800000	ug/Kg	*	9330	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-92-1	Lead	15500	ug/Kg	*	292	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-95-4	Magnesium	2430000	ug/Kg	*N	9910	35000	35000	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-96-5	Manganese	454000	ug/Kg	*N	233	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057
7439-97-6	Mercury	21.1	ug/kg		4.22	12.4	12.4	1	AV	JXL1	03/12/10 12:55	031210S1-5	958728
7440-02-0	Nickel	9.49	mg/kg		0.117	0.469	0.469	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-09-7	Potassium	2200000	ug/Kg	*N	7460	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7782-49-2	Selenium	1.17	mg/kg	UN	0.586	1.17	1.17	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-22-4	Silver	277	ug/Kg	J	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-23-5	Sodium	273000	ug/Kg		8160	29200	29200	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-28-0	Thallium	0.147	mg/kg	J	0.0704	0.235	0.235	2	MS	RMJ	03/24/10 12:34	100323-3	958059
7440-61-1	Uranium	1.4	mg/kg	*N	0.0162	0.049	0.049	2	MS	PRB	04/15/10 20:24	100415-2	969760
7440-62-2	Vanadium	30100	ug/Kg	*	117	583	583	1	P	HSC	03/26/10 03:41	032510A-1	958057
7440-66-6	Zinc	54400	ug/Kg	*N	385	1170	1170	1	P	HSC	03/26/10 03:41	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.531	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.528	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.599	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.506	g	50	mL	03/29/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247907017

BASIS: Dry Weight

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8033

LEVEL: Low

DATE RECEIVED 24-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	5810000	ug/Kg	*	7910	23300	23300	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-36-0	Antimony	1160	ug/Kg	U	384	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-38-2	Arsenic	2.82	mg/kg		0.253	1.26	1.26	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-39-3	Barium	43800	ug/Kg	*	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-41-7	Beryllium	0.932	mg/kg		0.0253	0.126	0.126	2	MS	RMJ	03/24/10 22:34	100324-4	958059
7440-43-9	Cadmium	582	ug/Kg	U	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-70-2	Calcium	1820000	ug/Kg	*N	9300	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-47-3	Chromium	7630	ug/Kg	*	174	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-48-4	Cobalt	1770	ug/Kg	*	174	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-50-8	Copper	7310	ug/Kg	*	349	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-89-6	Iron	10900000	ug/Kg	*	9300	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-92-1	Lead	7840	ug/Kg	*	291	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-95-4	Magnesium	1040000	ug/Kg	*N	9890	34900	34900	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-96-5	Manganese	151000	ug/Kg	*N	233	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057
7439-97-6	Mercury	16.6	ug/kg		4.92	14.5	14.5	1	AV	JXL1	03/12/10 12:56	031210S1-5	958728
7440-02-0	Nickel	6.54	mg/kg		0.126	0.505	0.505	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-09-7	Potassium	785000	ug/Kg	*N	7440	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7782-49-2	Selenium	1.26	mg/kg	UN	0.632	1.26	1.26	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-22-4	Silver	207	ug/Kg	J	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-23-5	Sodium	99700	ug/Kg		8140	29100	29100	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-28-0	Thallium	0.0849	mg/kg	J	0.0758	0.253	0.253	2	MS	RMJ	03/24/10 12:38	100323-3	958059
7440-61-1	Uranium	13.9	mg/kg	*N	0.0151	0.0457	0.0457	2	MS	PRB	04/15/10 20:26	100415-2	969760
7440-62-2	Vanadium	11800	ug/Kg	*	116	582	582	1	P	HSC	03/26/10 03:49	032510A-1	958057
7440-66-6	Zinc	39700	ug/Kg	*N	384	1160	1160	1	P	HSC	03/26/10 03:49	032510A-1	958057

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958057	958056	SW846 3050B	0.568	g	50	mL	03/02/10	FGA
958059	958058	SW846 3050B	0.523	g	50	mL	03/02/10	FGA
958728	958727	SW846 7471A Prep	0.548	g	30	mL	03/11/10	TXB3
969760	969759	SW846 3050B	0.578	g	50	mL	03/29/10	LYH1

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.14	ug/L	5	ug/L	102.8	90.0 - 110.0	AV	12-MAR-10 09:18	031210S1-5
	Arsenic	52.5	ug/L	50	ug/L	105	90.0 - 110.0	MS	24-MAR-10 10:16	100323-3
	Beryllium	52	ug/L	50	ug/L	104.1	90.0 - 110.0	MS	24-MAR-10 10:16	100323-3
	Nickel	54.4	ug/L	50	ug/L	108.8	90.0 - 110.0	MS	24-MAR-10 10:16	100323-3
	Selenium	51.4	ug/L	50	ug/L	102.8	90.0 - 110.0	MS	24-MAR-10 10:16	100323-3
	Thallium	51.6	ug/L	50	ug/L	103.3	90.0 - 110.0	MS	24-MAR-10 10:16	100323-3
	Beryllium	50.3	ug/L	50	ug/L	100.6	90.0 - 110.0	MS	24-MAR-10 22:05	100324-4
	Aluminum	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Antimony	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Barium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Cadmium	490	ug/L	500	ug/L	98	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Chromium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Copper	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Iron	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Lead	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Magnesium	5350	ug/L	5000	ug/L	107	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Manganese	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Potassium	2410	ug/L	2500	ug/L	96.4	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Silver	256	ug/L	250	ug/L	102.5	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Sodium	2400	ug/L	2500	ug/L	95.8	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Zinc	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	25-MAR-10 08:09	032510A-1
	Uranium	53.8	ug/L	50	ug/L	107.6	90.0 - 110.0	MS	15-APR-10 19:06	100415-2
CCV01										
	Mercury	5.09	ug/L	5	ug/L	101.7	80.0 - 120.0	AV	12-MAR-10 09:23	031210S1-5
	Arsenic	51.2	ug/L	50	ug/L	102.4	90.0 - 110.0	MS	24-MAR-10 10:36	100323-3
	Beryllium	51.3	ug/L	50	ug/L	102.7	90.0 - 110.0	MS	24-MAR-10 10:36	100323-3
	Nickel	54.3	ug/L	50	ug/L	108.6	90.0 - 110.0	MS	24-MAR-10 10:36	100323-3

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Selenium	51.5	ug/L	50	ug/L	103	90.0 – 110.0	MS	24-MAR-10 10:36	100323-3
	Thallium	51.9	ug/L	50	ug/L	103.9	90.0 – 110.0	MS	24-MAR-10 10:36	100323-3
	Beryllium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	24-MAR-10 22:16	100324-4
	Aluminum	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Antimony	527	ug/L	500	ug/L	105.3	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Barium	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Cadmium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Chromium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Copper	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Iron	4960	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Lead	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Manganese	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Sodium	9610	ug/L	10000	ug/L	96.1	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Vanadium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Zinc	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	25-MAR-10 08:57	032510A-1
	Uranium	51.7	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	15-APR-10 19:17	100415-2
CCV02	Mercury	5.13	ug/L	5	ug/L	102.6	80.0 – 120.0	AV	12-MAR-10 09:43	031210S1-5
	Arsenic	49.3	ug/L	50	ug/L	98.7	90.0 – 110.0	MS	24-MAR-10 10:53	100323-3
	Beryllium	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	24-MAR-10 10:53	100323-3
	Nickel	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	24-MAR-10 10:53	100323-3
	Selenium	51.2	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	24-MAR-10 10:53	100323-3
	Thallium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	24-MAR-10 10:53	100323-3
	Beryllium	53.7	ug/L	50	ug/L	107.4	90.0 – 110.0	MS	24-MAR-10 22:36	100324-4
	Aluminum	5110	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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>
	Antimony	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Barium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Cadmium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Calcium	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Copper	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Lead	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Manganese	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Potassium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Silver	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Sodium	10200	ug/L	10000	ug/L	101.8	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Zinc	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	25-MAR-10 09:24	032510A-1
	Uranium	52.8	ug/L	50	ug/L	105.5	90.0 – 110.0	MS	15-APR-10 19:24	100415-2
CCV03	Mercury	5.24	ug/L	5	ug/L	104.7	80.0 – 120.0	AV	12-MAR-10 10:03	031210S1-5
	Arsenic	50.6	ug/L	50	ug/L	101.1	90.0 – 110.0	MS	24-MAR-10 11:33	100323-3
	Beryllium	53.1	ug/L	50	ug/L	106.1	90.0 – 110.0	MS	24-MAR-10 11:33	100323-3
	Nickel	52.8	ug/L	50	ug/L	105.6	90.0 – 110.0	MS	24-MAR-10 11:33	100323-3
	Selenium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	24-MAR-10 11:33	100323-3
	Thallium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	24-MAR-10 11:33	100323-3
	Aluminum	4850	ug/L	5000	ug/L	97.1	90.0 – 110.0	P	25-MAR-10 10:14	032510A-1
	Antimony	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	25-MAR-10 10:14	032510A-1
	Barium	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 10:14	032510A-1
	Cadmium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 10:14	032510A-1
	Calcium	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	25-MAR-10 10:14	032510A-1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 10:14	032510A-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Cobalt	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Copper	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Iron	4860	ug/L	5000	ug/L	97.1	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Lead	494	ug/L	500	ug/L	98.7	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Magnesium	5030	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Manganese	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Potassium	4680	ug/L	5000	ug/L	93.6	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Silver	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Sodium	9520	ug/L	10000	ug/L	95.2	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Vanadium	497	ug/L	500	ug/L	99.4	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Zinc	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	25-MAR-10 10:14	032510A-1
	Uranium	53.4	ug/L	50	ug/L	106.8	90.0 - 110.0	MS	15-APR-10 19:50	100415-2
CCV04	Mercury	5.26	ug/L	5	ug/L	105.3	80.0 - 120.0	AV	12-MAR-10 10:23	031210S1-5
	Arsenic	49.7	ug/L	50	ug/L	99.5	90.0 - 110.0	MS	24-MAR-10 12:10	100323-3
	Beryllium	54.5	ug/L	50	ug/L	109	90.0 - 110.0	MS	24-MAR-10 12:10	100323-3
	Nickel	54.1	ug/L	50	ug/L	108.2	90.0 - 110.0	MS	24-MAR-10 12:10	100323-3
	Selenium	50.7	ug/L	50	ug/L	101.5	90.0 - 110.0	MS	24-MAR-10 12:10	100323-3
	Thallium	49.4	ug/L	50	ug/L	98.7	90.0 - 110.0	MS	24-MAR-10 12:10	100323-3
	Aluminum	5020	ug/L	5000	ug/L	100.4	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Antimony	516	ug/L	500	ug/L	103.2	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Barium	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Cadmium	499	ug/L	500	ug/L	99.9	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Chromium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Copper	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Lead	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	25-MAR-10 11:24	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 11:24	032510A-1
	Potassium	4830	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	25-MAR-10 11:24	032510A-1
	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	25-MAR-10 11:24	032510A-1
	Sodium	9990	ug/L	10000	ug/L	99.9	90.0 – 110.0	P	25-MAR-10 11:24	032510A-1
	Vanadium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 11:24	032510A-1
	Zinc	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	25-MAR-10 11:24	032510A-1
	Uranium	53.1	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	15-APR-10 20:15	100415-2
CCV05										
	Mercury	4.86	ug/L	5	ug/L	97.2	80.0 – 120.0	AV	12-MAR-10 10:43	031210S1-5
	Arsenic	51.2	ug/L	50	ug/L	102.4	90.0 – 110.0	MS	24-MAR-10 12:42	100323-3
	Beryllium	57.2	ug/L	50	ug/L	114.3	90.0 – 110.0	MS	24-MAR-10 12:42	100323-3
	Nickel	55.2	ug/L	50	ug/L	110.4	90.0 – 110.0	MS	24-MAR-10 12:42	100323-3
	Selenium	52.8	ug/L	50	ug/L	105.6	90.0 – 110.0	MS	24-MAR-10 12:42	100323-3
	Thallium	52.5	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	24-MAR-10 12:42	100323-3
	Aluminum	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Antimony	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Barium	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Cadmium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Calcium	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Chromium	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Copper	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Lead	495	ug/L	500	ug/L	99	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Magnesium	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Manganese	490	ug/L	500	ug/L	98	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Potassium	4920	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Silver	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Sodium	10100	ug/L	10000	ug/L	100.6	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Vanadium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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>
CCV06	Zinc	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-MAR-10 12:43	032510A-1
	Uranium	54.1	ug/L	50	ug/L	108.2	90.0 – 110.0	MS	15-APR-10 20:28	100415-2
CCV06	Mercury	5.06	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	12-MAR-10 11:03	031210S1-5
	Aluminum	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Antimony	523	ug/L	500	ug/L	104.7	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Cadmium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Calcium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Chromium	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Copper	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Iron	5140	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Lead	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Magnesium	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Manganese	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Potassium	4890	ug/L	5000	ug/L	97.9	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Silver	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Sodium	10100	ug/L	10000	ug/L	101.1	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Vanadium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
	Zinc	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-MAR-10 13:50	032510A-1
CCV07	Mercury	5.02	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	12-MAR-10 11:23	031210S1-5
	Aluminum	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Antimony	521	ug/L	500	ug/L	104.1	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Barium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Cadmium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Calcium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Chromium	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Cobalt	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Iron	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Lead	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Magnesium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Manganese	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Potassium	4910	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Silver	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Sodium	9660	ug/L	10000	ug/L	96.6	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Vanadium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
	Zinc	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	25-MAR-10 15:00	032510A-1
CCV08	Mercury	5.01	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	12-MAR-10 11:44	031210S1-5
	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Antimony	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Barium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Cadmium	495	ug/L	500	ug/L	99	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Calcium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Chromium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Cobalt	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Copper	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Iron	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Lead	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Magnesium	5190	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Manganese	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Silver	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Sodium	9870	ug/L	10000	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Vanadium	499	ug/L	500	ug/L	99.7	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1
	Zinc	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	25-MAR-10 16:11	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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>
CCV09										
	Mercury	5.02	ug/L	5	ug/L	100.4	80.0 – 120.0	AV	12-MAR-10 12:04	031210S1-5
	Aluminum	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Antimony	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Barium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Cadmium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Cobalt	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Copper	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Iron	5060	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Lead	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Magnesium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Manganese	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Potassium	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Silver	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Sodium	10000	ug/L	10000	ug/L	100.1	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Vanadium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
	Zinc	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	25-MAR-10 16:32	032510A-1
CCV10										
	Mercury	5.05	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	12-MAR-10 12:24	031210S1-5
	Aluminum	5040	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Antimony	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Barium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Cadmium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Chromium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Copper	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Iron	5140	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Lead	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Manganese	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Potassium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Sodium	9850	ug/L	10000	ug/L	98.5	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Vanadium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
	Zinc	490	ug/L	500	ug/L	98	90.0 – 110.0	P	25-MAR-10 17:36	032510A-1
CCV11										
	Mercury	5.05	ug/L	5	ug/L	100.9	80.0 – 120.0	AV	12-MAR-10 12:44	031210S1-5
	Aluminum	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Antimony	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Barium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Cadmium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Calcium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Chromium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Copper	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Iron	5120	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Lead	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Magnesium	5120	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Manganese	486	ug/L	500	ug/L	97.3	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Potassium	4810	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Sodium	9920	ug/L	10000	ug/L	99.2	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Vanadium	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
	Zinc	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	25-MAR-10 18:45	032510A-1
CCV12										
	Mercury	5.05	ug/L	5	ug/L	100.9	80.0 – 120.0	AV	12-MAR-10 13:05	031210S1-5
	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Antimony	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Cadmium	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Calcium	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Chromium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Cobalt	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Copper	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Iron	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Lead	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Magnesium	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Manganese	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Potassium	4870	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Silver	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Sodium	9740	ug/L	10000	ug/L	97.4	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Vanadium	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
	Zinc	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	25-MAR-10 19:49	032510A-1
CCV13	Aluminum	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Antimony	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Barium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Cadmium	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Calcium	4980	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Chromium	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Copper	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Iron	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Lead	490	ug/L	500	ug/L	98	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Magnesium	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Manganese	490	ug/L	500	ug/L	98	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Potassium	4820	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Silver	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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	10200	ug/L	10000	ug/L	102	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Zinc	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 20:45	032510A-1
	Aluminum	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Antimony	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Barium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Cadmium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Calcium	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Chromium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Cobalt	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Copper	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Iron	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Lead	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Manganese	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Potassium	4970	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Silver	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Sodium	10700	ug/L	10000	ug/L	106.9	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Vanadium	495	ug/L	500	ug/L	99	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
	Zinc	484	ug/L	500	ug/L	96.9	90.0 – 110.0	P	25-MAR-10 22:02	032510A-1
CCV15	Aluminum	4860	ug/L	5000	ug/L	97.2	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Antimony	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Barium	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Cadmium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Calcium	5000	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Chromium	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Cobalt	510	ug/L	500	ug/L	102	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1
	Copper	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	25-MAR-10 23:20	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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	100.9	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Lead	497	ug/L	500	ug/L	99.5	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Magnesium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Manganese	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Potassium	4870	ug/L	5000	ug/L	97.4	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Silver	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Vanadium	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
	Zinc	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	25-MAR-10 23:20	032510A-1
CCV16	Aluminum	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Antimony	526	ug/L	500	ug/L	105.1	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Barium	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Cadmium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Calcium	4970	ug/L	5000	ug/L	99.4	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Chromium	495	ug/L	500	ug/L	98.9	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Copper	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Iron	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Lead	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Magnesium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Manganese	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Potassium	4830	ug/L	5000	ug/L	96.6	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Silver	507	ug/L	500	ug/L	101.5	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Sodium	10300	ug/L	10000	ug/L	103.4	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Vanadium	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
	Zinc	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	26-MAR-10 00:31	032510A-1
CCV17	Aluminum	4780	ug/L	5000	ug/L	95.6	90.0 - 110.0	P	26-MAR-10 01:34	032510A-1
	Antimony	538	ug/L	500	ug/L	107.6	90.0 - 110.0	P	26-MAR-10 01:34	032510A-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3.ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Cadmium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Chromium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Cobalt	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Copper	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Lead	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Magnesium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Manganese	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Potassium	4780	ug/L	5000	ug/L	95.5	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Silver	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Sodium	10000	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Vanadium	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
	Zinc	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	26-MAR-10 01:34	032510A-1
CCV18	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Antimony	541	ug/L	500	ug/L	108.3	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Barium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Cadmium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Calcium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Chromium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Cobalt	522	ug/L	500	ug/L	104.5	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Copper	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Iron	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Lead	505	ug/L	500	ug/L	101	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Magnesium	5270	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Manganese	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Potassium	4910	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Silver	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS6,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>
CCV19	Sodium	10000	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Vanadium	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Zinc	505	ug/L	500	ug/L	101	90.0 – 110.0	P	26-MAR-10 02:45	032510A-1
	Aluminum	4740	ug/L	5000	ug/L	94.8	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Antimony	549	ug/L	500	ug/L	109.8	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Barium	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Cadmium	516	ug/L	500	ug/L	103.1	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Calcium	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Chromium	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Cobalt	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Copper	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Iron	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Lead	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Magnesium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Manganese	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Potassium	4740	ug/L	5000	ug/L	94.9	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Silver	523	ug/L	500	ug/L	104.5	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Sodium	10400	ug/L	10000	ug/L	104.1	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Vanadium	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1
	Zinc	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	26-MAR-10 03:55	032510A-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.154	ug/L	.2	ug/L	77	70.0 – 130.0	AV	12-MAR-10 09:21	031210S1-5
	Nickel	2.25	ug/L	2	ug/L	112.6	70.0 – 130.0	MS	24-MAR-10 10:24	100323-3
	Thallium	1.13	ug/L	1	ug/L	113.2	70.0 – 130.0	MS	24-MAR-10 10:24	100323-3
	Arsenic	6.23	ug/L	5	ug/L	124.6	70.0 – 130.0	MS	24-MAR-10 10:24	100323-3
	Beryllium	.508	ug/L	.5	ug/L	101.6	70.0 – 130.0	MS	24-MAR-10 10:24	100323-3
	Selenium	5.93	ug/L	5	ug/L	118.5	70.0 – 130.0	MS	24-MAR-10 10:24	100323-3
	Beryllium	.538	ug/L	.5	ug/L	107.6	70.0 – 130.0	MS	24-MAR-10 22:09	100324-4
	Uranium	.197	ug/L	.2	ug/L	98.5	70.0 – 130.0	MS	15-APR-10 19:11	100415-2
PQL01										
	Aluminum	223	ug/L	200	ug/L	111.6	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Iron	82.5	ug/L	100	ug/L	82.5	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Lead	10.6	ug/L	10	ug/L	106.2	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Magnesium	357	ug/L	300	ug/L	118.9	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Manganese	10.9	ug/L	10	ug/L	108.6	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Potassium	147	ug/L	150	ug/L	98.3	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Silver	4.86	ug/L	5	ug/L	97.2	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Sodium	279	ug/L	300	ug/L	93.1	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Antimony	10.4	ug/L	10	ug/L	104.1	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Barium	5.26	ug/L	5	ug/L	105.3	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Cadmium	5.18	ug/L	5	ug/L	103.6	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Chromium	5.32	ug/L	5	ug/L	106.4	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Cobalt	5.21	ug/L	5	ug/L	104.3	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Copper	10.8	ug/L	10	ug/L	107.5	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Vanadium	5.24	ug/L	5	ug/L	104.9	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Zinc	11.9	ug/L	10	ug/L	118.5	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1
	Calcium	221	ug/L	200	ug/L	110.6	70.0 – 130.0	P	25-MAR-10 08:23	032510A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
ICB01										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 09:19	031210S1-5
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	24-MAR-10 10:20	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 10:20	100323-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	24-MAR-10 10:20	100323-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	24-MAR-10 10:20	100323-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	24-MAR-10 10:20	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 22:07	100324-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 08:16	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 08:16	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 08:16	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 08:16	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 08:16	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 08:16	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 08:16	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 08:16	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 08:16	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 08:16	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 08:16	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 08:16	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 08:16	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 08:16	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 08:16	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 08:16	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 08:16	032510A-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	15-APR-10 19:09	100415-2
CCB01										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 09:24	031210S1-5
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	24-MAR-10 10:40	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 10:40	100323-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	24-MAR-10 10:40	100323-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	24-MAR-10 10:40	100323-3

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

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	SOL	MS	24-MAR-10 10:40	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 22:18	100324-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 09:04	032510A-1
	Antimony	3.82	+/-10	J	3.3	10.0	SOL	P	25-MAR-10 09:04	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:04	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:04	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 09:04	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 09:04	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 09:04	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 09:04	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 09:04	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 09:04	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 09:04	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 09:04	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 09:04	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:04	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 09:04	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:04	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 09:04	032510A-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	15-APR-10 19:20	100415-2
CCB02	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 09:44	031210S1-5
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	24-MAR-10 10:57	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 10:57	100323-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	24-MAR-10 10:57	100323-3
	Selenium	2.72	+/-5	J	2.5	5.0	SOL	MS	24-MAR-10 10:57	100323-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	24-MAR-10 10:57	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 22:38	100324-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 09:31	032510A-1
	Antimony	4.02	+/-10	J	3.3	10.0	SOL	P	25-MAR-10 09:31	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:31	032510A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:31	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 09:31	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 09:31	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 09:31	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 09:31	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 09:31	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 09:31	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 09:31	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 09:31	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 09:31	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:31	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 09:31	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 09:31	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 09:31	032510A-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	15-APR-10 19:26	100415-2
CCB03	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 10:04	031210S1-5
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	24-MAR-10 11:37	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 11:37	100323-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	24-MAR-10 11:37	100323-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	24-MAR-10 11:37	100323-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	24-MAR-10 11:37	100323-3
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 10:21	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 10:21	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 10:21	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 10:21	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 10:21	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 10:21	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 10:21	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 10:21	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 10:21	032510A-1

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SDG No.: 10-2013

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<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	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 10:21	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 10:21	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 10:21	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 10:21	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 10:21	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 10:21	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 10:21	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 10:21	032510A-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	15-APR-10 19:53	100415-2
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 10:25	031210S1-5
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	24-MAR-10 12:14	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 12:14	100323-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	24-MAR-10 12:14	100323-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	24-MAR-10 12:14	100323-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	24-MAR-10 12:14	100323-3
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 11:31	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 11:31	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 11:31	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 11:31	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 11:31	032510A-1
CCB04	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 11:31	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 11:31	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 11:31	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 11:31	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 11:31	032510A-1
	Magnesium	95.12	+/-300	J	85.0	300	SOL	P	25-MAR-10 11:31	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 11:31	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 11:31	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 11:31	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 11:31	032510A-1

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<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	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 11:31	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 11:31	032510A-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	15-APR-10 20:17	100415-2
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 10:45	031210S1-5
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	24-MAR-10 12:46	100323-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	24-MAR-10 12:46	100323-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	24-MAR-10 12:46	100323-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	24-MAR-10 12:46	100323-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	24-MAR-10 12:46	100323-3
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 12:50	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 12:50	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 12:50	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 12:50	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 12:50	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 12:50	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 12:50	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 12:50	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 12:50	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 12:50	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 12:50	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 12:50	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 12:50	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 12:50	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 12:50	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 12:50	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 12:50	032510A-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	15-APR-10 20:30	100415-2
CCB06	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 11:05	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 13:57	032510A-1

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	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 13:57	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 13:57	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 13:57	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 13:57	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 13:57	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 13:57	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 13:57	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 13:57	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 13:57	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 13:57	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 13:57	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 13:57	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 13:57	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 13:57	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 13:57	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 13:57	032510A-1
CCB07	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 11:25	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 15:07	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 15:07	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 15:07	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 15:07	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 15:07	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 15:07	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 15:07	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 15:07	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 15:07	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 15:07	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 15:07	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 15:07	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 15:07	032510A-1

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	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 15:07	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 15:07	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 15:07	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 15:07	032510A-1
CCB08	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 11:45	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 16:18	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 16:18	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:18	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:18	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 16:18	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 16:18	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 16:18	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 16:18	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 16:18	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 16:18	032510A-1
	Magnesium	92.31	+/-300	J	85.0	300	SOL	P	25-MAR-10 16:18	032510A-1
	Manganesec	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 16:18	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 16:18	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:18	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 16:18	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:18	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 16:18	032510A-1
CCB09	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 12:05	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 16:39	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 16:39	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:39	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:39	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 16:39	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 16:39	032510A-1

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	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 16:39	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 16:39	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 16:39	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 16:39	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 16:39	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 16:39	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 16:39	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:39	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 16:39	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 16:39	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 16:39	032510A-1
CCB10	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 12:26	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 17:43	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 17:43	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 17:43	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 17:43	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 17:43	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 17:43	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 17:43	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 17:43	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 17:43	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 17:43	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 17:43	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 17:43	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 17:43	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 17:43	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 17:43	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 17:43	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 17:43	032510A-1

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CCB11										
	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	12-MAR-10 12:46	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 18:52	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 18:52	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 18:52	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 18:52	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 18:52	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 18:52	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 18:52	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 18:52	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 18:52	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 18:52	032510A-1
	Magnesium	99.66	+/-300	J	85.0	300	SOL	P	25-MAR-10 18:52	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 18:52	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 18:52	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 18:52	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 18:52	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 18:52	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 18:52	032510A-1
CCB12										
	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	12-MAR-10 13:06	031210S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 19:56	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 19:56	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 19:56	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 19:56	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 19:56	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 19:56	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 19:56	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 19:56	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 19:56	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 19:56	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 19:56	032510A-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 19:56	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 19:56	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 19:56	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 19:56	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 19:56	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 19:56	032510A-1
CCB13	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 20:52	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 20:52	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 20:52	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 20:52	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 20:52	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 20:52	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 20:52	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 20:52	032510A-1
	Iron	92.44	+/-250	J	80.0	250	SOL	P	25-MAR-10 20:52	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 20:52	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 20:52	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 20:52	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 20:52	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 20:52	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 20:52	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 20:52	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 20:52	032510A-1
CCB14	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 22:09	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 22:09	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 22:09	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 22:09	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 22:09	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 22:09	032510A-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 22:09	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 22:09	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 22:09	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 22:09	032510A-1
	Magnesium	114.29	+/-300	J	85.0	300	SOL	P	25-MAR-10 22:09	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 22:09	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	25-MAR-10 22:09	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 22:09	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 22:09	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 22:09	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 22:09	032510A-1
CCB15	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	25-MAR-10 23:27	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 23:27	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 23:27	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 23:27	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 23:27	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 23:27	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	25-MAR-10 23:27	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	25-MAR-10 23:27	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	25-MAR-10 23:27	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	25-MAR-10 23:27	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	25-MAR-10 23:27	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	25-MAR-10 23:27	032510A-1
	Potassium	-77.56	+/-250	J	64.0	250	SOL	P	25-MAR-10 23:27	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 23:27	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	25-MAR-10 23:27	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	25-MAR-10 23:27	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	25-MAR-10 23:27	032510A-1
CCB16	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-MAR-10 00:38	032510A-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 00:38	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 00:38	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 00:38	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 00:38	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 00:38	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 00:38	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-MAR-10 00:38	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 00:38	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-MAR-10 00:38	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-MAR-10 00:38	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-MAR-10 00:38	032510A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-MAR-10 00:38	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 00:38	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-MAR-10 00:38	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 00:38	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 00:38	032510A-1
CCB17	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-MAR-10 01:41	032510A-1
	Antimony	3.59	+/-10	J	3.3	10.0	SOL	P	26-MAR-10 01:41	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 01:41	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 01:41	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 01:41	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 01:41	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 01:41	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-MAR-10 01:41	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 01:41	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-MAR-10 01:41	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-MAR-10 01:41	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-MAR-10 01:41	032510A-1
	Potassium	-80.57	+/-250	J	64.0	250	SOL	P	26-MAR-10 01:41	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 01:41	032510A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

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>
CCB18	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-MAR-10 01:41	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 01:41	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 01:41	032510A-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-MAR-10 02:52	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 02:52	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 02:52	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 02:52	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 02:52	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 02:52	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 02:52	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-MAR-10 02:52	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 02:52	032510A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-MAR-10 02:52	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-MAR-10 02:52	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-MAR-10 02:52	032510A-1
	Potassium	-75.76	+/-250	J	64.0	250	SOL	P	26-MAR-10 02:52	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 02:52	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-MAR-10 02:52	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 02:52	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 02:52	032510A-1
CCB19	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-MAR-10 04:02	032510A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 04:02	032510A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 04:02	032510A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 04:02	032510A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 04:02	032510A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 04:02	032510A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-MAR-10 04:02	032510A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-MAR-10 04:02	032510A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-MAR-10 04:02	032510A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-MAR-10 04:02	032510A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-MAR-10 04:02	032510A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-MAR-10 04:02	032510A-1
	Potassium	-87.27	+/-250	J	64.0	250	SOL	P	26-MAR-10 04:02	032510A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 04:02	032510A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-MAR-10 04:02	032510A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-MAR-10 04:02	032510A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-MAR-10 04:02	032510A-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-2013

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>
1202054505	Aluminum	6550	ug/Kg	+/-19300	U	P	6550	19300
	Antimony	318	ug/Kg	+/-963	U	P	318	963
	Barium	96.3	ug/Kg	+/-482	U	P	96.3	482
	Calcium	7710	ug/Kg	+/-24100	U	P	7710	24100
	Cobalt	145	ug/Kg	+/-482	U	P	145	482
	Iron	12500	ug/Kg	+/-24100	J	P	7710	24100
	Magnesium	8190	ug/Kg	+/-28900	U	P	8190	28900
	Potassium	-7400	ug/Kg	+/-24100	J	P	6170	24100
	Sodium	6920	ug/Kg	+/-24100	J	P	6740	24100
	Zinc	327	ug/Kg	+/-963	J	P	318	963
	Vanadium	96.3	ug/Kg	+/-482	U	P	96.3	482
	Silver	96.3	ug/Kg	+/-482	U	P	96.3	482
	Manganese	324	ug/Kg	+/-963	J	P	193	963
	Lead	241	ug/Kg	+/-963	U	P	241	963
	Copper	289	ug/Kg	+/-963	U	P	289	963
	Chromium	155	ug/Kg	+/-482	J	P	145	482
	Cadmium	96.3	ug/Kg	+/-482	U	P	96.3	482
1202054516	Arsenic	0.2	mg/kg	+/-1	U	MS	0.2	1
	Nickel	0.1	mg/kg	+/-0.4	U	MS	0.1	0.4
	Selenium	0.5	mg/kg	+/-1	U	MS	0.5	1
	Thallium	0.06	mg/kg	+/-0.2	U	MS	0.06	0.2
	Beryllium	0.02	mg/kg	+/-0.1	U	MS	0.02	0.1
1202056121	Mercury	3.64	ug/kg	+/-10.7	U	AV	3.64	10.7
1202082287	Uranium	0.0213	mg/kg	+/-0.0364	J	MS	0.012	0.0364

METALS
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Interference Check Sample

SDG No: 10-2013

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	518000	ug/L	500000	ug/L	104	80.0 – 120.0	25-MAR-10 08:30	032510A-1
	Antimony	-5.95	ug/L					25-MAR-10 08:30	032510A-1
	Barium	-0.354	ug/L					25-MAR-10 08:30	032510A-1
	Cadmium	0.784	ug/L					25-MAR-10 08:30	032510A-1
	Calcium	478000	ug/L	500000	ug/L	95.6	80.0 – 120.0	25-MAR-10 08:30	032510A-1
	Chromium	-1.32	ug/L					25-MAR-10 08:30	032510A-1
	Cobalt	-1.2	ug/L					25-MAR-10 08:30	032510A-1
	Copper	2.29	ug/L					25-MAR-10 08:30	032510A-1
	Iron	184000	ug/L	200000	ug/L	92.1	80.0 – 120.0	25-MAR-10 08:30	032510A-1
	Lead	-14.9	ug/L					25-MAR-10 08:30	032510A-1
	Magnesium	485000	ug/L	500000	ug/L	97	80.0 – 120.0	25-MAR-10 08:30	032510A-1
	Manganese	-3.62	ug/L					25-MAR-10 08:30	032510A-1
	Potassium	-202.0	ug/L					25-MAR-10 08:30	032510A-1
	Silver	-3.38	ug/L					25-MAR-10 08:30	032510A-1
	Sodium	143	ug/L					25-MAR-10 08:30	032510A-1
	Vanadium	-3.86	ug/L					25-MAR-10 08:30	032510A-1
	Zinc	2.16	ug/L					25-MAR-10 08:30	032510A-1
ICSAB01									
	Aluminum	525000	ug/L	500000	ug/L	105	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Antimony	575	ug/L	500	ug/L	115	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Barium	498	ug/L	500	ug/L	99.6	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Cadmium	475	ug/L	500	ug/L	95	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Calcium	480000	ug/L	500000	ug/L	96.1	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Chromium	487	ug/L	500	ug/L	97.5	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Cobalt	463	ug/L	500	ug/L	92.6	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Copper	558	ug/L	500	ug/L	112	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Iron	183000	ug/L	200000	ug/L	91.6	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Lead	460	ug/L	500	ug/L	92.1	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Magnesium	487000	ug/L	500000	ug/L	97.4	80.0 – 120.0	25-MAR-10 08:36	032510A-1

METALS
-4-
Interference Check Sample

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	484	ug/L	500	ug/L	96.8	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Potassium	5110	ug/L	5000	ug/L	102	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Silver	274	ug/L	250	ug/L	109	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Sodium	5260	ug/L	5000	ug/L	105	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Vanadium	510	ug/L	500	ug/L	102	80.0 – 120.0	25-MAR-10 08:36	032510A-1
	Zinc	502	ug/L	500	ug/L	100	80.0 – 120.0	25-MAR-10 08:36	032510A-1

METALS

-4-

Interference Check Sample

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.012	ug/L					15-APR-10 19:13	100415-2
ICSAB01	Uranium	22.4	ug/L	20	ug/L	112	80.0 - 120.0	15-APR-10 19:15	100415-2

METALS

-4-

Interference Check Sample

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	0.209	ug/L					24-MAR-10 10:28	100323-3
	Beryllium	0.098	ug/L					24-MAR-10 10:28	100323-3
	Nickel	2.86	ug/L					24-MAR-10 10:28	100323-3
	Selenium	-1.13	ug/L					24-MAR-10 10:28	100323-3
	Thallium	0.015	ug/L					24-MAR-10 10:28	100323-3
ICSAB01									
	Arsenic	22.1	ug/L	20	ug/L	111	80.0 - 120.0	24-MAR-10 10:32	100323-3
	Beryllium	22.3	ug/L	20	ug/L	112	80.0 - 120.0	24-MAR-10 10:32	100323-3
	Nickel	24.0	ug/L	23.31	ug/L	103	80.0 - 120.0	24-MAR-10 10:32	100323-3
	Selenium	22.0	ug/L	20	ug/L	110	80.0 - 120.0	24-MAR-10 10:32	100323-3
	Thallium	20.2	ug/L	20	ug/L	101	80.0 - 120.0	24-MAR-10 10:32	100323-3

METALS
-4-
Interference Check Sample

SDG No: 10-2013

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.077	ug/L					24-MAR-10 22:12	100324-4
ICSAB01	Beryllium	20.4	ug/L	20	ug/L	102	80.0 - 120.0	24-MAR-10 22:14	100324-4

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2013 Client ID RE15-10-8019S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 247907001 Spike ID: 1202054508

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		10300000		4160000		577000	1060	N/A	P
Antimony	ug/Kg	75-125	49400		350	U	57700	85.3		P
Barium	ug/Kg	75-125	110000		37800		57700	125		P
Cadmium	ug/Kg	75-125	53200		233	J	57700	91.9		P
Calcium	ug/Kg	75-125	2400000		1410000		577000	171	N	P
Chromium	ug/Kg	75-125	65300		7790		57700	99.7		P
Cobalt	ug/Kg	75-125	56300		1570		57700	94.9		P
Copper	ug/Kg	75-125	79600		16300		57700	110		P
Iron	ug/Kg		13100000		8930000		577000	727	N/A	P
Lead	ug/Kg	75-125	69900		11600		57700	101		P
Magnesium	ug/Kg	75-125	2370000		828000		577000	267	N	P
Manganese	ug/Kg	75-125	317000		200000		57700	202	N	P
Potassium	ug/Kg	75-125	2020000		716000		577000	226	N	P
Silver	ug/Kg	75-125	55100		106	U	57700	95.5		P
Sodium	ug/Kg	75-125	663000		94700		577000	98.5		P
Vanadium	ug/Kg	75-125	70400		9350		57700	106		P
Zinc	ug/Kg	75-125	117000		38600		57700	136	N	P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2013 Client ID RE15-10-8019SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 247907001 Spike ID: 1202054509

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		9560000		4160000		556000	972	N/A	P
Antimony	ug/Kg	75-125	47200		350	U	55600	84.5		P
Barium	ug/Kg	75-125	100000		37800		55600	112		P
Cadmium	ug/Kg	75-125	51400		233	J	55600	92		P
Calcium	ug/Kg	75-125	2280000		1410000		556000	156	N	P
Chromium	ug/Kg	75-125	62700		7790		55600	98.6		P
Cobalt	ug/Kg	75-125	54100		1570		55600	94.5		P
Copper	ug/Kg	75-125	76200		16300		55600	108		P
Lead	ug/Kg	75-125	66200		11600		55600	98.1		P
Magnesium	ug/Kg	75-125	1940000		828000		556000	199	N	P
Manganese	ug/Kg	75-125	282000		200000		55600	147	N	P
Potassium	ug/Kg	75-125	1740000		716000		556000	184	N	P
Silver	ug/Kg	75-125	53200		106	U	55600	95.5		P
Sodium	ug/Kg	75-125	637000		94700		556000	97.5		P
Vanadium	ug/Kg	75-125	66700		9350		55600	103		P
Zinc	ug/Kg	75-125	100000		38600		55600	111		P
Iron	ug/Kg		12100000		8930000		556000	570	N/A	P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2013 Client ID RE15-10-8019S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 247907001 Spike ID: 1202054519

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	10.2		1.12	J	9.1	100		MS
Beryllium	mg/kg	75-125	6.48		0.845		5.69	99.1		MS
Nickel	mg/kg	75-125	11.1		4.1		5.69	123		MS
Selenium	mg/kg	75-125	2.28		0.628	J	2.28	72.7	N	MS
Thallium	mg/kg	75-125	9.84		0.0681	U	11.4	85.9		MS
Uranium	mg/kg	75-125	14.1		9.2		5.83	84.2		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2013 Client ID RE15-10-8019SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 247907001 Spike ID: 1202054520

<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	10.3		1.12	J	9.07	101		MS
Beryllium	mg/kg	75-125	6.72		0.845		5.67	104		MS
Nickel	mg/kg	75-125	10.1		4.1		5.67	106		MS
Selenium	mg/kg	75-125	2.28		0.628	J	2.27	72.6	N	MS
Thallium	mg/kg	75-125	10.5		0.0681	U	11.3	92.2		MS
Uranium	mg/kg	75-125	10.9		9.2		5.47	31.4	N	MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2013 Client ID RE15-10-8019S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 247907001 Spike ID: 1202056124

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	163		11	J	143	107		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2013 Client ID RE15-10-8019SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 247907001 Spike ID: 1202056126

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	157		11	J	136	107		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8019D

Sample ID: 247907001

Duplicate ID: 1202054506

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	4160000		6010000		36.5	*	P
Antimony	ug/Kg		350 U		373 U				P
Barium	ug/Kg	+/-20%	37800		53400		34.4	*	P
Cadmium	ug/Kg	+/-565	233 J		398 J		52.4		P
Calcium	ug/Kg	+/-20%	1410000		2030000		35.7	*	P
Chromium	ug/Kg	+/-20%	7790		11800		40.6	*	P
Cobalt	ug/Kg	+/-565	1570		2370		40.7	*	P
Copper	ug/Kg	+/-20%	16300		31200		63.1	*	P
Iron	ug/Kg	+/-20%	8930000		12500000		33.5	*	P
Lead	ug/Kg	+/-20%	11600		18000		42.9	*	P
Magnesium	ug/Kg	+/-20%	828000		1210000		37.8	*	P
Manganese	ug/Kg	+/-20%	200000		301000		40.1	*	P
Potassium	ug/Kg	+/-20%	716000		1040000		36.8	*	P
Silver	ug/Kg		106 U		113 U				P
Sodium	ug/Kg	+/-28200	94700		115000		19.6		P
Vanadium	ug/Kg	+/-20%	9350		13200		34	*	P
Zinc	ug/Kg	+/-20%	38600		57500		39.3	*	P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8019SD

Sample ID: 1202054508

Duplicate ID: 1202054509

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	10300000		9560000		7.17		P
Antimony	ug/Kg	+/-20	49400		47200		4.51		P
Barium	ug/Kg	+/-20	110000		100000		9.17		P
Cadmium	ug/Kg	+/-20	53200		51400		3.5		P
Calcium	ug/Kg	+/-20	2400000		2280000		5.02		P
Chromium	ug/Kg	+/-20	65300		62700		4.1		P
Cobalt	ug/Kg	+/-20	56300		54100		3.96		P
Copper	ug/Kg	+/-20	79600		76200		4.29		P
Iron	ug/Kg	+/-20	13100000		12100000		8.09		P
Lead	ug/Kg	+/-20	69900		66200		5.46		P
Magnesium	ug/Kg	+/-20	2370000		1940000		20.1	*	P
Manganese	ug/Kg	+/-20	317000		282000		11.7		P
Potassium	ug/Kg	+/-20	2020000		1740000		14.6		P
Silver	ug/Kg	+/-20	55100		53200		3.63		P
Sodium	ug/Kg	+/-20	663000		637000		3.99		P
Vanadium	ug/Kg	+/-20	70400		66700		5.44		P
Zinc	ug/Kg	+/-20	117000		100000		15.3		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8019D

Sample ID: 247907001

Duplicate ID: 1202054517

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.05	1.12 J		1.47		26.5		MS
Beryllium	mg/kg	+/-20%	0.845		0.929		9.53		MS
Nickel	mg/kg	+/-20%	4.1		4.31		5.09		MS
Selenium	mg/kg		0.628 J		0.526 U		200		MS
Thallium	mg/kg		0.0681 U		0.0738 J		200		MS
Uranium	mg/kg	+/-20%	9.2		7.1		25.7	*	MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8019SD

Sample ID: 1202054519

Duplicate ID: 1202054520

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	10.2		10.3		.47		MS
Beryllium	mg/kg	+/-20	6.48		6.72		3.61		MS
Nickel	mg/kg	+/-20	11.1		10.1		9.5		MS
Selenium	mg/kg	+/-20	2.28		2.28		.34		MS
Thallium	mg/kg	+/-20	9.84		10.5		6.63		MS
Uranium	mg/kg	+/-20	14.1		10.9		25.5	*	MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8019D

Sample ID: 247907001

Duplicate ID: 1202056123

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-13.2	11 J		10.8 J		1.57		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2013

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8019SD

Sample ID: 1202056124

Duplicate ID: 1202056126

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	163		157		4.01		AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2013

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>
1202054510								
	Aluminum	ug/Kg	10500000	8330000		79.3	56-144	P
	Antimony	ug/Kg	173000	119000		68.9	71-130	P
	Barium	ug/Kg	198000	179000		90.3	80-120	P
	Cadmium	ug/Kg	60700	58200		95.8	81-120	P
	Calcium	ug/Kg	9870000	9330000		94.5	83-117	P
	Chromium	ug/Kg	236000	228000		96.8	80-120	P
	Cobalt	ug/Kg	91200	91200		100	81-120	P
	Copper	ug/Kg	174000	182000		104	81-118	P
	Iron	ug/Kg	18000000	16900000		94	51-149	P
	Lead	ug/Kg	86000	77500		90.2	79-121	P
	Magnesium	ug/Kg	4000000	3520000		88.1	79-122	P
	Manganese	ug/Kg	558000	519000		93	81-119	P
	Potassium	ug/Kg	4300000	3720000		86.5	74-127	P
	Silver	ug/Kg	30100	30000		99.7	66-134	P
	Sodium	ug/Kg	1020000	1010000		99	74-127	P
	Vanadium	ug/Kg	115000	116000		101	79-121	P
	Zinc	ug/Kg	594000	559000		94.1	80-121	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2013

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>
1202054521	Thallium	mg/kg	121	121		100	78-122	MS
	Arsenic	mg/kg	104	106		102	78-123	MS
	Beryllium	mg/kg	77.6	80.5		104	84-116	MS
	Nickel	mg/kg	134	148		110	78-123	MS
	Selenium	mg/kg	286	287		100	77-123	MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-2013

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>
1202056122	Mercury	ug/kg	5150	5610		109	71.6-128.3	AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2013

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>
1202082288	Uranium	mg/kg	2.13	2.03		95.2	73-127	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2013

Client ID. RE15-10-8019L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 247907001

Serial Dilution ID: 1202054507

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	39200		39200		.128		10	P
Antimony	3.3	U	16.5	U				P
Barium	356		351		1.54		10	P
Cadmium	2.19	J	5	U	100			P
Calcium	13300		13500		1.5		10	P
Chromium	73.4		72		1.91			P
Cobalt	14.8		13.6	J	8.11			P
Copper	153		149		2.94		10	P
Iron	84100		85500		1.66		10	P
Lead	110		110		0			P
Magnesium	7800		8350		7.05		10	P
Manganese	1890		1870		1.06		10	P
Potassium	6750		6600		2.22		10	P
Silver	1	U	5	U				P
Sodium	892		955	J	7.06			P
Vanadium	88.1		87		1.25		10	P
Zinc	363		363		.138		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2013 Client ID RE15-10-8019L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 247907001 Serial Dilution ID: 1202054518

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Arsenic	4.95	J	5.8	J	17.2			MS
Beryllium	3.72		3.4		8.74			MS
Nickel	18		16.5		8.61			MS
Selenium	2.77	J	12.5	U	100			MS
Thallium	.3	U	1.5	U				MS
Uranium	41		41.5		1.22		10	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2013 Client ID RE15-10-8019L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 247907001 Serial Dilution ID: 1202056125

<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	.158	J	.34	U	100			AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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 958056							
1202054505	MB for batch 958056	MB	S	02-MAR-10	.519g	50mL	
1202054510	LCS for batch 958056	LCS	S	02-MAR-10	.556g	50mL	
1202054508	RE15-10-8019S	MS	S	02-MAR-10	.518g	50mL	
1202054509	RE15-10-8019SD	MSD	S	02-MAR-10	.537g	50mL	
1202054506	RE15-10-8019D	DUP	S	02-MAR-10	.529g	50mL	
247907001	RE15-10-8019	SAMPLE	S	02-MAR-10	.563g	50mL	
247907002	RE15-10-8013	SAMPLE	S	02-MAR-10	.589g	50mL	
247907003	RE15-10-8026	SAMPLE	S	02-MAR-10	.568g	50mL	
247907004	RE15-10-8017	SAMPLE	S	02-MAR-10	.545g	50mL	
247907005	RE15-10-8025	SAMPLE	S	02-MAR-10	.563g	50mL	
247907006	RE15-10-8022	SAMPLE	S	02-MAR-10	.552g	50mL	
247907007	RE15-10-8014	SAMPLE	S	02-MAR-10	.558g	50mL	
247907008	RE15-10-8023	SAMPLE	S	02-MAR-10	.549g	50mL	
247907009	RE15-10-8020	SAMPLE	S	02-MAR-10	.531g	50mL	
247907010	RE15-10-8018	SAMPLE	S	02-MAR-10	.598g	50mL	
247907011	RE15-10-8015	SAMPLE	S	02-MAR-10	.547g	50mL	
247907012	RE15-10-8021	SAMPLE	S	02-MAR-10	.528g	50mL	
247907013	RE15-10-8024	SAMPLE	S	02-MAR-10	.528g	50mL	
247907014	RE15-10-8016	SAMPLE	S	02-MAR-10	.592g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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>
247907015	RE15-10-8065	SAMPLE	S	02-MAR-10	.591g	50mL	
247907016	RE15-10-8066	SAMPLE	S	02-MAR-10	.531g	50mL	
247907017	RE15-10-8033	SAMPLE	S	02-MAR-10	.568g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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	958058						
1202054516	MB for batch 958058	MB	S	02-MAR-10	.5g	50mL	
1202054521	LCS for batch 958058	LCS	S	02-MAR-10	.565g	50mL	
1202054519	RE15-10-8019S	MS	S	02-MAR-10	.525g	50mL	
1202054520	RE15-10-8019SD	MSD	S	02-MAR-10	.527g	50mL	
1202054517	RE15-10-8019D	DUP	S	02-MAR-10	.568g	50mL	
247907001	RE15-10-8019	SAMPLE	S	02-MAR-10	.526g	50mL	
247907002	RE15-10-8013	SAMPLE	S	02-MAR-10	.596g	50mL	
247907003	RE15-10-8026	SAMPLE	S	02-MAR-10	.591g	50mL	
247907004	RE15-10-8017	SAMPLE	S	02-MAR-10	.553g	50mL	
247907005	RE15-10-8025	SAMPLE	S	02-MAR-10	.537g	50mL	
247907006	RE15-10-8022	SAMPLE	S	02-MAR-10	.556g	50mL	
247907007	RE15-10-8014	SAMPLE	S	02-MAR-10	.555g	50mL	
247907008	RE15-10-8023	SAMPLE	S	02-MAR-10	.522g	50mL	
247907009	RE15-10-8020	SAMPLE	S	02-MAR-10	.528g	50mL	
247907010	RE15-10-8018	SAMPLE	S	02-MAR-10	.593g	50mL	
247907011	RE15-10-8015	SAMPLE	S	02-MAR-10	.549g	50mL	
247907012	RE15-10-8021	SAMPLE	S	02-MAR-10	.576g	50mL	
247907013	RE15-10-8024	SAMPLE	S	02-MAR-10	.541g	50mL	
247907014	RE15-10-8016	SAMPLE	S	02-MAR-10	.504g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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>
247907015	RE15-10-8065	SAMPLE	S	02-MAR-10	.503g	50mL	
247907016	RE15-10-8066	SAMPLE	S	02-MAR-10	.528g	50mL	
247907017	RE15-10-8033	SAMPLE	S	02-MAR-10	.523g	50mL	
Batch Number 969759							
1202082287	MB for batch 969759	MB	S	29-MAR-10	.55g	50mL	
1202082288	LCS for batch 969759	LCS	S	29-MAR-10	.504g	50mL	
1202054519	RE15-10-8019S	MS	S	29-MAR-10	.512g	50mL	
1202054520	RE15-10-8019SD	MSD	S	29-MAR-10	.546g	50mL	
1202054517	RE15-10-8019D	DUP	S	29-MAR-10	.578g	50mL	
247907001	RE15-10-8019	SAMPLE	S	29-MAR-10	.532g	50mL	
247907002	RE15-10-8013	SAMPLE	S	29-MAR-10	.506g	50mL	
247907003	RE15-10-8026	SAMPLE	S	29-MAR-10	.548g	50mL	
247907004	RE15-10-8017	SAMPLE	S	29-MAR-10	.503g	50mL	
247907005	RE15-10-8025	SAMPLE	S	29-MAR-10	.584g	50mL	
247907006	RE15-10-8022	SAMPLE	S	29-MAR-10	.524g	50mL	
247907007	RE15-10-8014	SAMPLE	S	29-MAR-10	.578g	50mL	
247907008	RE15-10-8023	SAMPLE	S	29-MAR-10	.523g	50mL	
247907009	RE15-10-8020	SAMPLE	S	29-MAR-10	.512g	50mL	
247907010	RE15-10-8018	SAMPLE	S	29-MAR-10	.508g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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>
247907011	RE15-10-8015	SAMPLE	S	29-MAR-10	.543g	50mL	
247907012	RE15-10-8021	SAMPLE	S	29-MAR-10	.559g	50mL	
247907013	RE15-10-8024	SAMPLE	S	29-MAR-10	.561g	50mL	
247907014	RE15-10-8016	SAMPLE	S	29-MAR-10	.591g	50mL	
247907015	RE15-10-8065	SAMPLE	S	29-MAR-10	.537g	50mL	
247907016	RE15-10-8066	SAMPLE	S	29-MAR-10	.506g	50mL	
247907017	RE15-10-8033	SAMPLE	S	29-MAR-10	.578g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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 958727							
1202056121	MB for batch 958727	MB	S	11-MAR-10	.56g	30mL	
1202056122	LCS for batch 958727	LCS	S	11-MAR-10	.202g	30mL	
1202056124	RE15-10-8019S	MS	S	11-MAR-10	.503g	30mL	
1202056126	RE15-10-8019SD	MSD	S	11-MAR-10	.527g	30mL	
1202056123	RE15-10-8019D	DUP	S	11-MAR-10	.543g	30mL	
247907001	RE15-10-8019	SAMPLE	S	11-MAR-10	.515g	30mL	
247907002	RE15-10-8013	SAMPLE	S	11-MAR-10	.555g	30mL	
247907003	RE15-10-8026	SAMPLE	S	11-MAR-10	.595g	30mL	
247907004	RE15-10-8017	SAMPLE	S	11-MAR-10	.594g	30mL	
247907005	RE15-10-8025	SAMPLE	S	11-MAR-10	.571g	30mL	
247907006	RE15-10-8022	SAMPLE	S	11-MAR-10	.533g	30mL	
247907007	RE15-10-8014	SAMPLE	S	11-MAR-10	.529g	30mL	
247907008	RE15-10-8023	SAMPLE	S	11-MAR-10	.507g	30mL	
247907009	RE15-10-8020	SAMPLE	S	11-MAR-10	.525g	30mL	
247907010	RE15-10-8018	SAMPLE	S	11-MAR-10	.554g	30mL	
247907011	RE15-10-8015	SAMPLE	S	11-MAR-10	.543g	30mL	
247907012	RE15-10-8021	SAMPLE	S	11-MAR-10	.593g	30mL	
247907013	RE15-10-8024	SAMPLE	S	11-MAR-10	.548g	30mL	
247907014	RE15-10-8016	SAMPLE	S	11-MAR-10	.527g	30mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013

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>
247907015	RE15-10-8065	SAMPLE	S	11-MAR-10	.5g	30mL	
247907016	RE15-10-8066	SAMPLE	S	11-MAR-10	.599g	30mL	
247907017	RE15-10-8033	SAMPLE	S	11-MAR-10	.548g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS6

Start Date: 24-MAR-10

End Date: 24-MAR-10

Client Sdg: 10-2013

Method: MS

Data File: 100323-3

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	10:04:00			X		X											X	X			X				
S10	1	10:08:00			X		X											X	X			X				
S100	1	10:12:00			X		X											X	X			X				
ICV01	1	10:16:00			X		X											X	X			X				
ICB01	1	10:20:00			X		X											X	X			X				
CRDL01	1	10:24:00			X		X											X	X			X				
ICSA01	1	10:28:00			X		X											X	X			X				
ICSAB01	1	10:32:00			X		X											X	X			X				
CCV01	1	10:36:00			X		X											X	X			X				
CCB01	1	10:40:00			X		X											X	X			X				
1202054516	2	10:44:00			X		X											X	X			X				
1202054521	40	10:49:00			X		X											X	X			X				
CCV02	1	10:53:00			X		X											X	X			X				
CCB02	1	10:57:00			X		X											X	X			X				
247907001	2	11:01:00			X		X											X	X			X				
1202054517	2	11:05:00			X		X											X	X			X				
1202054519	2	11:09:00			X		X											X	X			X				
1202054520	2	11:13:00			X		X											X	X			X				
1202054518	10	11:17:00			X		X											X	X			X				
247907002	2	11:21:00			X		X											X	X			X				
247907003	2	11:25:00			X		X											X	X			X				
247907004	2	11:29:00			X		X											X	X			X				
CCV03	1	11:33:00			X		X											X	X			X				
CCB03	1	11:37:00			X		X											X	X			X				
247907005	2	11:41:00			X		X											X	X			X				
247907006	2	11:45:00			X		X											X	X			X				
247907007	2	11:49:00			X		X											X	X			X				
247907008	2	11:53:00			X		X											X	X			X				
247907009	2	11:57:00			X		X											X	X			X				
247907010	2	12:01:00			X		X											X	X			X				
247907011	2	12:05:00			X		X											X	X			X				
CCV04	1	12:10:00			X		X											X	X			X				
CCB04	1	12:14:00			X		X											X	X			X				
247907012	2	12:18:00			X													X	X			X				
247907013	2	12:22:00			X													X	X			X				
247907014	2	12:26:00			X													X	X			X				
247907015	2	12:30:00			X													X	X			X				
247907016	2	12:34:00			X													X	X			X				
247907017	2	12:38:00			X													X	X			X				
CCV05	1	12:42:00			X		X											X	X			X				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																		
CCB05	1	12:46:00			X		X								X		X		X	

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS6**Start Date:** 24-MAR-10**Client Sdg:** 10-2013**Method:** MS**Data File:** 100324-4**End Date:** 24-MAR-10

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	21:58:00					X																			
S10	1	22:00:00					X																			
S100	1	22:03:00					X																			
ICV01	1	22:05:00					X																			
ICB01	1	22:07:00					X																			
CRDL01	1	22:09:00					X																			
ICSA01	1	22:12:00					X																			
ICSAB01	1	22:14:00					X																			
CCV01	1	22:16:00					X																			
CCB01	1	22:18:00					X																			
247907012	2	22:21:00					X																			
247907013	2	22:24:00					X																			
247907014	2	22:26:00					X																			
247907015	2	22:29:00					X																			
247907016	2	22:31:00					X																			
247907017	2	22:34:00					X																			
CCV02	1	22:36:00					X																			
CCB02	1	22:38:00					X																			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 25-MAR-10

End Date: 26-MAR-10

Client Sdg: 10-2013

Method P

Data File: 032510A-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	07:36:00	X	X		X		X	X	X	X	X	X	X	X				X		X	X			X	X
S0.1	1	07:43:00		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	07:50:00	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	07:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	08:04:00	X						X				X		X							X				
ICV01	1	08:09:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	08:16:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	08:23:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	08:30:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	08:36:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	08:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	08:50:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	08:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	09:04:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR03	1	09:10:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR04	1	09:17:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	09:24:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	09:31:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	5	09:54:00																								
ZZZZZZ	5	10:01:00																								
ZZZZZZ	5	10:07:00																								
CCV03	1	10:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	10:21:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	10:28:00																								
ZZZZZZ	1	10:35:00																								
ZZZZZZ	1	10:42:00																								
ZZZZZZ	1	10:49:00																								
ZZZZZZ	5	10:56:00																								
ZZZZZZ	20	11:03:00																								
ZZZZZZ	50	11:10:00																								
ZZZZZZ	100	11:17:00																								
CCV04	1	11:24:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	11:31:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	11:40:00																								
ZZZZZZ	1	11:46:00																								
ZZZZZZ	200	11:54:00																								
ZZZZZZ	200	12:01:00																								
ZZZZZZ	200	12:08:00																								
ZZZZZZ	200	12:15:00																								
ZZZZZZ	1000	12:22:00																								

Metals
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Analysis Run Log

[illegible]

Metals
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Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	17:15:00																								
ZZZZZZ	1	17:22:00																								
ZZZZZZ	5	17:29:00																								
CCV10	1	17:36:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	17:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	17:49:00																								
ZZZZZZ	1	17:56:00																								
ZZZZZZ	1	18:04:00																								
ZZZZZZ	1	18:10:00																								
ZZZZZZ	1	18:17:00																								
ZZZZZZ	1	18:24:00																								
ZZZZZZ	1	18:31:00																								
ZZZZZZ	1	18:38:00																								
CCV11	1	18:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	18:52:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:00:00																								
ZZZZZZ	1	19:07:00																								
ZZZZZZ	1	19:14:00																								
ZZZZZZ	1	19:21:00																								
ZZZZZZ	1	19:28:00																								
ZZZZZZ	1	19:35:00																								
ZZZZZZ	5	19:42:00																								
CCV12	1	19:49:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	19:56:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:03:00																								
ZZZZZZ	1	20:10:00																								
ZZZZZZ	1	20:17:00																								
ZZZZZZ	1	20:24:00																								
ZZZZZZ	1	20:31:00																								
ZZZZZZ	1	20:38:00																								
CCV13	1	20:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB13	1	20:52:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:59:00																								
ZZZZZZ	1	21:06:00																								
ZZZZZZ	1	21:13:00																								
ZZZZZZ	1	21:20:00																								
ZZZZZZ	1	21:27:00																								
ZZZZZZ	1	21:34:00																								
ZZZZZZ	5	21:41:00																								
ZZZZZZ	1	21:48:00																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																								
ZZZZZZ	1	21:55:00																								
CCV14	1	22:02:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB14	1	22:09:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
ZZZZZZ	1	22:16:00																								
ZZZZZZ	1	22:23:00																								
ZZZZZZ	1	22:30:00																								
ZZZZZZ	1	22:37:00																								
ZZZZZZ	1	22:44:00																								
ZZZZZZ	1	22:51:00																								
ZZZZZZ	1	22:58:00																								
ZZZZZZ	1	23:05:00																								
ZZZZZZ	1	23:13:00																								
CCV15	1	23:20:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB15	1	23:27:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
ZZZZZZ	1	23:34:00																								
ZZZZZZ	1	23:41:00																								
ZZZZZZ	1	23:48:00																								
ZZZZZZ	1	23:56:00																								
ZZZZZZ	1	00:03:00																								
ZZZZZZ	1	00:10:00																								
ZZZZZZ	1	00:17:00																								
ZZZZZZ	1	00:24:00																								
CCV16	1	00:31:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB16	1	00:38:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
1202054505	1	00:46:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
1202054510	1	00:53:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907001	1	00:59:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
1202054506	1	01:06:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
1202054508	1	01:13:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
1202054509	1	01:20:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
1202054507	5	01:27:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCV17	1	01:34:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB17	1	01:41:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907002	1	01:48:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907003	1	01:55:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907004	1	02:02:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907005	1	02:09:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907006	1	02:16:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907007	1	02:23:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
247907008	1	02:30:00	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
247907009	1	02:38:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV18	1	02:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB18	1	02:52:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907010	1	02:59:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907011	1	03:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907012	1	03:13:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907013	1	03:20:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907014	1	03:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907015	1	03:34:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907016	1	03:41:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
247907017	1	03:49:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV19	1	03:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB19	1	04:02:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 12-MAR-10

End Date: 12-MAR-10

Client Sdg: 10-2013

Method AV

Data File: 031210S1-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:08:00															X									
S0.2	1	09:09:00															X									
S0.5	1	09:11:00															X									
S2.0	1	09:13:00															X									
S5.0	1	09:14:00															X									
S10.0	1	09:16:00															X									
ICV01	1	09:18:00															X									
ICB01	1	09:19:00															X									
CRDL01	1	09:21:00															X									
CCV01	1	09:23:00															X									
CCB01	1	09:24:00															X									
ZZZZZZ	1	09:26:00																								
ZZZZZZ	10	09:28:00																								
ZZZZZZ	1	09:29:00																								
ZZZZZZ	1	09:31:00																								
ZZZZZZ	1	09:33:00																								
ZZZZZZ	1	09:34:00																								
ZZZZZZ	5	09:36:00																								
ZZZZZZ	1	09:38:00																								
ZZZZZZ	1	09:39:00																								
ZZZZZZ	10	09:41:00																								
CCV02	1	09:43:00															X									
CCB02	1	09:44:00															X									
ZZZZZZ	1	09:46:00																								
ZZZZZZ	1	09:48:00																								
ZZZZZZ	1	09:49:00																								
ZZZZZZ	1	09:51:00																								
ZZZZZZ	5	09:53:00																								
ZZZZZZ	1	09:54:00																								
ZZZZZZ	1	09:56:00																								
ZZZZZZ	1	09:58:00																								
ZZZZZZ	1	09:59:00																								
ZZZZZZ	1	10:01:00																								
CCV03	1	10:03:00															X									
CCB03	1	10:04:00															X									
ZZZZZZ	1	10:06:00																								
ZZZZZZ	1	10:08:00																								
ZZZZZZ	1	10:09:00																								
ZZZZZZ	1	10:11:00																								
ZZZZZZ	1	10:13:00																								

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Metals
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Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	11:22:00																								
CCV07	1	11:23:00															X									
CCB07	1	11:25:00															X									
ZZZZZZ	1	11:27:00																								
ZZZZZZ	1	11:28:00																								
ZZZZZZ	1	11:30:00																								
ZZZZZZ	5	11:32:00																								
ZZZZZZ	1	11:33:00																								
ZZZZZZ	1	11:35:00																								
ZZZZZZ	1	11:37:00																								
ZZZZZZ	1	11:38:00																								
ZZZZZZ	1	11:40:00																								
ZZZZZZ	1	11:42:00																								
CCV08	1	11:44:00															X									
CCB08	1	11:45:00															X									
ZZZZZZ	1	11:47:00																								
ZZZZZZ	1	11:49:00																								
ZZZZZZ	1	11:50:00																								
ZZZZZZ	1	11:52:00																								
ZZZZZZ	1	11:54:00																								
ZZZZZZ	1	11:55:00																								
ZZZZZZ	1	11:57:00																								
ZZZZZZ	1	11:59:00																								
ZZZZZZ	1	12:00:00																								
ZZZZZZ	1	12:02:00																								
CCV09	1	12:04:00															X									
CCB09	1	12:05:00															X									
ZZZZZZ	1	12:07:00																								
ZZZZZZ	1	12:09:00																								
ZZZZZZ	1	12:11:00																								
1202056121	1	12:12:00															X									
1202056122	10	12:14:00															X									
247907001	1	12:16:00															X									
1202056123	1	12:17:00															X									
1202056124	1	12:19:00															X									
1202056126	1	12:21:00															X									
1202056125	5	12:22:00															X									
CCV10	1	12:24:00															X									
CCB10	1	12:26:00															X									
247907002	1	12:27:00															X									

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
247907003	1	12:29:00
247907004	1	12:31:00
247907005	1	12:33:00
247907006	1	12:34:00
247907007	1	12:36:00
247907008	1	12:38:00
247907009	1	12:39:00
247907010	1	12:41:00
247907011	1	12:43:00
CCV11	1	12:44:00
CCB11	1	12:46:00
247907012	1	12:48:00
247907013	1	12:49:00
247907014	1	12:51:00
247907015	1	12:53:00
247907016	1	12:55:00
247907017	1	12:56:00
ZZZZZZ	1	12:58:00
ZZZZZZ	1	13:00:00
ZZZZZZ	1	13:01:00
ZZZZZZ	1	13:03:00
CCV12	1	13:05:00
CCB12	1	13:06:00

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 15-APR-10**End Date:** 15-APR-10**Client Sdg:** 10-2013**Method:** MS**Data File:** 100415--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	19:00:00																						X		
S10	1	19:02:00																						X		
S100	1	19:04:00																						X		
ICV01	1	19:06:00																						X		
ICB01	1	19:09:00																						X		
CRDL01	1	19:11:00																						X		
ICSA01	1	19:13:00																						X		
ICSAB01	1	19:15:00																						X		
CCV01	1	19:17:00																						X		
CCB01	1	19:20:00																						X		
LR01	1	19:22:00																						X		
CCV02	1	19:24:00																						X		
CCB02	1	19:26:00																						X		
1202082287	2	19:28:00																						X		
1202082288	40	19:31:00																						X		
247907001	2	19:33:00																						X		
1202054517	2	19:35:00																						X		
1202054519	2	19:37:00																						X		
1202054520	2	19:39:00																						X		
1202054518	10	19:42:00																						X		
247907002	2	19:44:00																						X		
247907003	2	19:46:00																						X		
247907004	2	19:48:00																						X		
CCV03	1	19:50:00																						X		
CCB03	1	19:53:00																						X		
247907005	2	19:55:00																						X		
247907006	2	19:57:00																						X		
247907007	2	19:59:00																						X		
247907008	2	20:02:00																						X		
247907009	2	20:04:00																						X		
247907010	2	20:06:00																						X		
247907011	2	20:08:00																						X		
247907012	2	20:10:00																						X		
247907013	2	20:13:00																						X		
CCV04	1	20:15:00																						X		
CCB04	1	20:17:00																						X		
247907014	2	20:19:00																						X		
247907015	2	20:22:00																						X		
247907016	2	20:24:00																						X		
247907017	2	20:26:00																						X		

Metals
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Analysis Run Log

Samp No.	D/F	Run Time
CCV05	1	20:28:00
CCB05	1	20:30:00

Standards

METALS
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Instrument Detection Limits

SDG NO. 10-2013

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength (nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum		15.0	50
	Antimony		0.5	3
	Arsenic		1.0	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		33.0	100
	Chromium		1.0	3
	Cobalt		0.3	1
	Copper		0.33	1
	Iron		25.0	100
	Lead		0.5	2
	Magnesium		7.5	25
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2013

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2013

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
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2013**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2013**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Boron	Cadmium	Chromium	Cobalt	Copper
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-2013

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interement 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: 10-2013

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silica
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2013**

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-
Interement Correction Factors

Lab Code: GELGEL Job No: **10-2013**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Tin	Titanium	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-15.4932	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	0.00000	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	0.00000	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	0.00000	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.55360	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-9.37529	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.81635	-4.04400	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-2013

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS6

<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. 10-2013

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. 10-2013

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Zinc	1000	2500	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
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

Raw Data

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Reprocessing Begun

Logged In Analyst: Optima3

Technique: ICP Continuous

Results Data Set (original): 032510

Results Library (original): C:\pe\Optima3\Results\Results.mdb

Results Data Set (reprocessed): 032510A

Results Library (reprocessed): C:\pe\Optima3\Results\Results.mdb

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Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/25/2010 09:39:44

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/25/2010 07:36:22

Analyst:

Data Type: Reprocessed on 3/25/2010 09:41:34

Logged In Analyst (Original) : Optima3

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 361.383	836103.0	836103.0	99.553 %	07:39:31
1	Sc Radial	4000.8	4000.8	99.2 %	07:38:35
1	Y 371.029	713700.0	713700.0	99.668 %	07:39:31
1	Y RADIAL	4493.5	4493.5	99.46 %	07:38:15
1	Ag 328.068†	255.1	256.3	[0.00] ug/L	07:39:36

1	Al 396.153Radial†	-80.2	-80.9	[0.00]	ug/L	07:38:35
1	As 188.979†	-19.7	-19.8	[0.00]	ug/L	07:39:57
1	B 249.677†	-248.0	-249.2	[0.00]	ug/L	07:39:57
1	Ba 233.527†	17.8	17.8	[0.00]	ug/L	07:39:57
1	Be 313.107†	-4288.8	-4308.1	[0.00]	ug/L	07:39:36
1	Ca 317.933Radial†	14.9	15.0	[0.00]	ug/L	07:38:35
1	Cd 226.502†	-166.3	-167.0	[0.00]	ug/L	07:39:57
1	Co 228.616†	-40.9	-41.1	[0.00]	ug/L	07:39:57
1	Cr 267.716†	104.4	104.8	[0.00]	ug/L	07:39:57
1	Cu 324.752†	6285.6	6313.8	[0.00]	ug/L	07:39:36
1	Fe 238.204 Radial†	7.9	8.0	[0.00]	ug/L	07:38:35
1	K 766.490 Radial†	2888.6	2912.5	[0.00]	ug/L	07:38:15
1	Mg 279.077 IEC†	0.6	0.6	[0.00]	ug/L	07:38:35
1	Mn 257.610†	458.2	460.3	[0.00]	ug/L	07:39:57
1	Mo 202.031†	9.0	9.0	[0.00]	ug/L	07:39:57
1	Na 589.592 Radial†	-423.8	-427.3	[0.00]	ug/L	07:38:15
1	Ni 231.604†	96.1	96.5	[0.00]	ug/L	07:39:57
1	P 214.914†	174.1	174.9	[0.00]	ug/L	07:39:57
1	Pb 220.353†	-63.2	-63.4	[0.00]	ug/L	07:39:57
1	S 181.975 Axial†	26.6	26.8	[0.00]	ug/L	07:39:57
1	Sb 206.836†	33.5	33.7	[0.00]	ug/L	07:39:57
1	Se 196.026†	-17.3	-17.4	[0.00]	ug/L	07:39:57
1	Si 251.611†	537.0	539.4	[0.00]	ug/L	07:39:57
1	Sn 189.927†	0.1	0.1	[0.00]	ug/L	07:39:57
1	Sr 421.552†	56.6	57.1	[0.00]	ug/L	07:38:15
1	Ti 334.940†	-1119.0	-1124.1	[0.00]	ug/L	07:39:36
1	Tl 190.801†	-24.9	-25.0	[0.00]	ug/L	07:39:57
1	U 409.014†	-1979.2	-1988.1	[0.00]	ug/L	07:39:31
1	V 292.402†	-1383.4	-1389.6	[0.00]	ug/L	07:39:36
1	Zn 213.857†	608.4	611.1	[0.00]	ug/L	07:39:57
1	SiO2†	551.8	554.3	[0.00]	ug/L	07:41:02
2	Sc 361.383	844946.8	844946.8	100.61	%	07:40:02
2	Sc Radial	4057.7	4057.7	101	%	07:39:00
2	Y 371.029	720116.7	720116.7	100.56	%	07:40:02
2	Y RADIAL	4532.7	4532.7	100.3	%	07:38:40
2	Ag 328.068†	237.1	235.7	[0.00]	ug/L	07:40:07
2	Al 396.153Radial†	-79.4	-78.9	[0.00]	ug/L	07:39:00
2	As 188.979†	-19.9	-19.8	[0.00]	ug/L	07:40:27
2	B 249.677†	-256.7	-255.1	[0.00]	ug/L	07:40:27
2	Ba 233.527†	19.4	19.3	[0.00]	ug/L	07:40:27
2	Be 313.107†	-4273.8	-4248.0	[0.00]	ug/L	07:40:07
2	Ca 317.933Radial†	17.6	17.5	[0.00]	ug/L	07:39:00
2	Cd 226.502†	-163.4	-162.5	[0.00]	ug/L	07:40:27
2	Co 228.616†	-35.9	-35.6	[0.00]	ug/L	07:40:27
2	Cr 267.716†	87.7	87.2	[0.00]	ug/L	07:40:27
2	Cu 324.752†	6383.0	6344.5	[0.00]	ug/L	07:40:07
2	Fe 238.204 Radial†	8.6	8.5	[0.00]	ug/L	07:39:00
2	K 766.490 Radial†	2817.5	2800.9	[0.00]	ug/L	07:38:40
2	Mg 279.077 IEC†	2.0	2.0	[0.00]	ug/L	07:39:00
2	Mn 257.610†	445.5	442.8	[0.00]	ug/L	07:40:27
2	Mo 202.031†	16.5	16.4	[0.00]	ug/L	07:40:27
2	Na 589.592 Radial†	-464.4	-461.7	[0.00]	ug/L	07:38:40
2	Ni 231.604†	105.3	104.7	[0.00]	ug/L	07:40:27
2	P 214.914†	160.8	159.8	[0.00]	ug/L	07:40:27
2	Pb 220.353†	-53.7	-53.3	[0.00]	ug/L	07:40:27
2	S 181.975 Axial†	23.5	23.3	[0.00]	ug/L	07:40:27
2	Sb 206.836†	19.9	19.8	[0.00]	ug/L	07:40:27
2	Se 196.026†	-18.3	-18.2	[0.00]	ug/L	07:40:27
2	Si 251.611†	521.7	518.5	[0.00]	ug/L	07:40:27
2	Sn 189.927†	12.3	12.2	[0.00]	ug/L	07:40:27
2	Sr 421.552†	80.9	80.5	[0.00]	ug/L	07:38:40
2	Ti 334.940†	-1077.7	-1071.2	[0.00]	ug/L	07:40:07
2	Tl 190.801†	-25.6	-25.4	[0.00]	ug/L	07:40:27
2	U 409.014†	-1994.9	-1982.8	[0.00]	ug/L	07:40:02
2	V 292.402†	-1444.8	-1436.1	[0.00]	ug/L	07:40:07
2	Zn 213.857†	604.8	601.1	[0.00]	ug/L	07:40:27
2	SiO2†	559.1	555.7	[0.00]	ug/L	07:41:08
3	Sc 361.383	838516.4	838516.4	99.841	%	07:40:32
3	Sc Radial	4043.0	4043.0	100	%	07:39:25
3	Y 371.029	714407.8	714407.8	99.767	%	07:40:32
3	Y RADIAL	4527.9	4527.9	100.2	%	07:39:05

3	Ag 328.068†	267.8	268.2	[0.00]	ug/L	07:40:37
3	Al 396.153Radial†	-79.3	-79.1	[0.00]	ug/L	07:39:25
3	As 188.979†	-22.9	-22.9	[0.00]	ug/L	07:40:57
3	B 249.677†	-245.8	-246.2	[0.00]	ug/L	07:40:57
3	Ba 233.527†	18.4	18.4	[0.00]	ug/L	07:40:57
3	Be 313.107†	-4225.3	-4232.0	[0.00]	ug/L	07:40:37
3	Ca 317.933Radial†	19.1	19.0	[0.00]	ug/L	07:39:25
3	Cd 226.502†	-169.4	-169.7	[0.00]	ug/L	07:40:57
3	Co 228.616†	-39.9	-40.0	[0.00]	ug/L	07:40:57
3	Cr 267.716†	92.7	92.9	[0.00]	ug/L	07:40:57
3	Cu 324.752†	6389.7	6399.9	[0.00]	ug/L	07:40:37
3	Fe 238.204 Radial†	10.5	10.4	[0.00]	ug/L	07:39:25
3	K 766.490 Radial†	2702.5	2696.4	[0.00]	ug/L	07:39:05
3	Mg 279.077 IEC†	-0.4	-0.4	[0.00]	ug/L	07:39:25
3	Mn 257.610†	453.4	454.2	[0.00]	ug/L	07:40:57
3	Mo 202.031†	17.1	17.2	[0.00]	ug/L	07:40:57
3	Na 589.592 Radial†	-494.7	-493.6	[0.00]	ug/L	07:39:05
3	Ni 231.604†	79.5	79.6	[0.00]	ug/L	07:40:57
3	P 214.914†	169.7	169.9	[0.00]	ug/L	07:40:57
3	Pb 220.353†	-59.6	-59.7	[0.00]	ug/L	07:40:57
3	S 181.975 Axial†	23.0	23.1	[0.00]	ug/L	07:40:57
3	Sb 206.836†	26.4	26.4	[0.00]	ug/L	07:40:57
3	Se 196.026†	-15.2	-15.3	[0.00]	ug/L	07:40:57
3	Si 251.611†	517.6	518.4	[0.00]	ug/L	07:40:57
3	Sn 189.927†	-3.1	-3.1	[0.00]	ug/L	07:40:57
3	Sr 421.552†	72.7	72.6	[0.00]	ug/L	07:39:05
3	Ti 334.940†	-1053.0	-1054.7	[0.00]	ug/L	07:40:37
3	Tl 190.801†	-24.7	-24.7	[0.00]	ug/L	07:40:57
3	U 409.014†	-2131.2	-2134.6	[0.00]	ug/L	07:40:32
3	V 292.402†	-1454.6	-1456.9	[0.00]	ug/L	07:40:37
3	Zn 213.857†	606.1	607.1	[0.00]	ug/L	07:40:57
3	SiO2†	549.2	550.1	[0.00]	ug/L	07:41:13

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	839855.4	4571.41	0.54%	100.00 %
Sc Radial	4033.8	29.56	0.73%	100 %
Y 371.029	716074.8	3518.18	0.49%	100.00 %
Y RADIAL	4518.0	21.39	0.47%	100.0 %
Ag 328.068†	253.4	16.46	6.49%	[0.00] ug/L
Al 396.153Radial†	-79.6	1.10	1.38%	[0.00] ug/L
As 188.979†	-20.8	1.81	8.68%	[0.00] ug/L
B 249.677†	-250.2	4.55	1.82%	[0.00] ug/L
Ba 233.527†	18.5	0.73	3.95%	[0.00] ug/L
Be 313.107†	-4262.7	40.09	0.94%	[0.00] ug/L
Ca 317.933Radial†	17.2	2.01	11.71%	[0.00] ug/L
Cd 226.502†	-166.4	3.67	2.20%	[0.00] ug/L
Co 228.616†	-38.9	2.88	7.41%	[0.00] ug/L
Cr 267.716†	95.0	9.01	9.49%	[0.00] ug/L
Cu 324.752†	6352.8	43.63	0.69%	[0.00] ug/L
Fe 238.204 Radial†	9.0	1.27	14.16%	[0.00] ug/L
K 766.490 Radial†	2803.2	108.10	3.86%	[0.00] ug/L
Mg 279.077 IEC†	0.7	1.18	167.64%	[0.00] ug/L
Mn 257.610†	452.4	8.84	1.95%	[0.00] ug/L
Mo 202.031†	14.2	4.48	31.55%	[0.00] ug/L
Na 589.592 Radial†	-460.9	33.14	7.19%	[0.00] ug/L
Ni 231.604†	93.6	12.79	13.67%	[0.00] ug/L
P 214.914†	168.2	7.67	4.56%	[0.00] ug/L
Pb 220.353†	-58.8	5.11	8.68%	[0.00] ug/L
S 181.975 Axial†	24.4	2.06	8.46%	[0.00] ug/L
Sb 206.836†	26.6	6.94	26.07%	[0.00] ug/L
Se 196.026†	-16.9	1.52	8.98%	[0.00] ug/L
Si 251.611†	525.5	12.10	2.30%	[0.00] ug/L
Sn 189.927†	3.1	8.09	262.02%	[0.00] ug/L
Sr 421.552†	70.0	11.90	16.99%	[0.00] ug/L
Ti 334.940†	-1083.3	36.23	3.34%	[0.00] ug/L
Tl 190.801†	-25.1	0.36	1.43%	[0.00] ug/L
U 409.014†	-2035.2	86.16	4.23%	[0.00] ug/L
V 292.402†	-1427.5	34.43	2.41%	[0.00] ug/L

Zn 213.857†	606.4	5.02	0.83%	[0.00] ug/L
SiO2†	553.4	2.90	0.52%	[0.00] ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/25/2010 07:43:23
 Data Type: Reprocessed on 3/25/2010 09:41:36
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	821023.4	821023.4	97.758 %	07:46:32
1	Sc Radial	4127.0	4127.0	102 %	07:45:35
1	Y 371.029	698941.8	698941.8	97.607 %	07:46:32
1	Y RADIAL	4473.9	4473.9	99.02 %	07:45:35
1	Ag 328.068†	19878.5	20081.1	[100] ug/L	07:46:32
1	As 188.979†	160.7	185.2	[100] ug/L	07:46:52
1	B 249.677†	3185.5	3508.7	[100] ug/L	07:46:32
1	Ba 233.527†	10757.3	10985.5	[100] ug/L	07:46:32
1	Be 313.107†	240605.7	250387.2	[100] ug/L	07:46:32
1	Cd 226.502†	6844.8	7168.2	[100] ug/L	07:46:52
1	Co 228.616†	3880.7	4008.7	[100] ug/L	07:46:52
1	Cr 267.716†	7787.1	7870.8	[100] ug/L	07:46:32
1	Cu 324.752†	36784.8	31275.8	[100] ug/L	07:46:32
1	K 766.490 Radial†	7777.2	4798.4	[1000] ug/L	07:45:15
1	Mn 257.610†	77724.0	79054.4	[100] ug/L	07:46:32
1	Mo 202.031†	1161.8	1174.2	[100] ug/L	07:46:52
1	Ni 231.604†	3327.8	3310.5	[100] ug/L	07:46:52
1	P 214.914†	873.8	725.6	[500] ug/L	07:46:52
1	Pb 220.353†	616.2	689.1	[100] ug/L	07:46:52
1	S 181.975 Axial†	139.9	118.8	[200] ug/L	07:46:52
1	Sb 206.836†	258.3	237.6	[100] ug/L	07:46:52
1	Se 196.026†	101.3	120.6	[100] ug/L	07:46:52
1	Si 251.611†	13686.8	13475.3	[500] ug/L	07:46:32
1	Sn 189.927†	439.4	446.4	[100] ug/L	07:46:52
1	Sr 421.552†	12051.5	11709.4	[100] ug/L	07:45:35
1	Ti 334.940†	56390.3	58767.1	[100] ug/L	07:46:32
1	Tl 190.801†	240.2	270.7	[100] ug/L	07:46:52
1	U 409.014†	1416.4	3484.0	[100] ug/L	07:46:32
1	V 292.402†	11376.3	13064.8	[100] ug/L	07:46:32
1	Zn 213.857†	9118.3	8721.1	[100] ug/L	07:46:32
1	SiO2†	13925.9	13692.0	[1069.5] ug/L	07:47:49
2	Sc 361.383	833646.3	833646.3	99.261 %	07:46:58
2	Sc Radial	4215.1	4215.1	104 %	07:46:00
2	Y 371.029	709448.6	709448.6	99.075 %	07:46:58
2	Y RADIAL	4571.2	4571.2	101.2 %	07:46:00
2	Ag 328.068†	20388.2	20286.6	[100] ug/L	07:46:58
2	As 188.979†	167.6	189.7	[100] ug/L	07:47:18
2	B 249.677†	3281.4	3556.0	[100] ug/L	07:46:58
2	Ba 233.527†	10965.8	11029.0	[100] ug/L	07:46:58
2	Be 313.107†	244618.3	250703.0	[100] ug/L	07:46:58
2	Cd 226.502†	6846.9	7064.3	[100] ug/L	07:47:18
2	Co 228.616†	3867.5	3935.2	[100] ug/L	07:47:18
2	Cr 267.716†	7970.7	7935.1	[100] ug/L	07:46:58
2	Cu 324.752†	37206.7	31131.1	[100] ug/L	07:46:58
2	K 766.490 Radial†	7791.7	4653.3	[1000] ug/L	07:45:40
2	Mn 257.610†	79103.0	79239.7	[100] ug/L	07:46:58
2	Mo 202.031†	1167.4	1161.9	[100] ug/L	07:47:18
2	Ni 231.604†	3349.3	3280.7	[100] ug/L	07:47:18
2	P 214.914†	865.2	703.5	[500] ug/L	07:47:18
2	Pb 220.353†	606.9	670.3	[100] ug/L	07:47:18
2	S 181.975 Axial†	137.1	113.8	[200] ug/L	07:47:18
2	Sb 206.836†	264.7	240.1	[100] ug/L	07:47:18
2	Se 196.026†	104.6	122.3	[100] ug/L	07:47:18
2	Si 251.611†	13985.8	13564.6	[500] ug/L	07:46:58
2	Sn 189.927†	449.7	449.9	[100] ug/L	07:47:18
2	Sr 421.552†	12194.4	11599.9	[100] ug/L	07:46:00
2	Ti 334.940†	57297.6	58807.7	[100] ug/L	07:46:58
2	Tl 190.801†	231.4	258.2	[100] ug/L	07:47:18

2	U 409.014†	1429.1	3474.9	[100]	ug/L	07:46:58
2	V 292.402†	11662.7	13177.1	[100]	ug/L	07:46:58
2	Zn 213.857†	9192.0	8654.1	[100]	ug/L	07:46:58
2	SiO2†	13855.3	13405.1	[1069.5]	ug/L	07:47:54
3	Sc 361.383	828606.5	828606.5	98.661	%	07:47:23
3	Sc Radial	4193.1	4193.1	104	%	07:46:25
3	Y 371.029	705706.8	705706.8	98.552	%	07:47:23
3	Y RADIAL	4561.8	4561.8	101.0	%	07:46:25
3	Ag 328.068†	20096.1	20115.5	[100]	ug/L	07:47:23
3	As 188.979†	158.7	181.6	[100]	ug/L	07:47:43
3	B 249.677†	3312.5	3607.7	[100]	ug/L	07:47:23
3	Ba 233.527†	10875.7	11004.9	[100]	ug/L	07:47:23
3	Be 313.107†	242954.3	250515.2	[100]	ug/L	07:47:23
3	Cd 226.502†	6797.6	7056.3	[100]	ug/L	07:47:43
3	Co 228.616†	3855.2	3946.4	[100]	ug/L	07:47:43
3	Cr 267.716†	7892.1	7904.3	[100]	ug/L	07:47:23
3	Cu 324.752†	37148.2	31299.7	[100]	ug/L	07:47:23
3	K 766.490 Radial†	7733.6	4636.6	[1000]	ug/L	07:46:05
3	Mn 257.610†	78392.6	79004.4	[100]	ug/L	07:47:23
3	Mo 202.031†	1169.1	1170.7	[100]	ug/L	07:47:43
3	Ni 231.604†	3335.3	3287.0	[100]	ug/L	07:47:43
3	P 214.914†	868.7	712.3	[500]	ug/L	07:47:43
3	Pb 220.353†	611.1	678.2	[100]	ug/L	07:47:43
3	S 181.975 Axial†	137.4	114.8	[200]	ug/L	07:47:43
3	Sb 206.836†	250.1	226.8	[100]	ug/L	07:47:43
3	Se 196.026†	109.9	128.3	[100]	ug/L	07:47:43
3	Si 251.611†	13803.7	13465.7	[500]	ug/L	07:47:23
3	Sn 189.927†	455.0	458.1	[100]	ug/L	07:47:43
3	Sr 421.552†	12158.3	11626.4	[100]	ug/L	07:46:25
3	Ti 334.940†	56923.7	58779.8	[100]	ug/L	07:47:23
3	Tl 190.801†	234.4	262.7	[100]	ug/L	07:47:43
3	U 409.014†	1552.5	3608.7	[100]	ug/L	07:47:23
3	V 292.402†	11612.6	13197.8	[100]	ug/L	07:47:23
3	Zn 213.857†	9123.1	8640.5	[100]	ug/L	07:47:23
3	SiO2†	13861.8	13496.6	[1069.5]	ug/L	07:47:59

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	827758.8	6354.01	0.77%	98.560	%
Sc Radial	4178.4	45.87	1.10%	104	%
Y 371.029	704699.1	5325.39	0.76%	98.411	%
Y RADIAL	4535.6	53.66	1.18%	100.4	%
Ag 328.068†	20161.1	110.08	0.55%	[100]	ug/L
As 188.979†	185.5	4.04	2.18%	[100]	ug/L
B 249.677†	3557.4	49.51	1.39%	[100]	ug/L
Ba 233.527†	11006.5	21.74	0.20%	[100]	ug/L
Be 313.107†	250535.1	158.83	0.06%	[100]	ug/L
Cd 226.502†	7096.3	62.42	0.88%	[100]	ug/L
Co 228.616†	3963.5	39.55	1.00%	[100]	ug/L
Cr 267.716†	7903.4	32.18	0.41%	[100]	ug/L
Cu 324.752†	31235.5	91.26	0.29%	[100]	ug/L
K 766.490 Radial†	4696.1	88.99	1.90%	[1000]	ug/L
Mn 257.610†	79099.5	124.00	0.16%	[100]	ug/L
Mo 202.031†	1169.0	6.33	0.54%	[100]	ug/L
Ni 231.604†	3292.7	15.73	0.48%	[100]	ug/L
P 214.914†	713.8	11.16	1.56%	[500]	ug/L
Pb 220.353†	679.2	9.46	1.39%	[100]	ug/L
S 181.975 Axial†	115.8	2.62	2.26%	[200]	ug/L
Sb 206.836†	234.8	7.04	3.00%	[100]	ug/L
Se 196.026†	123.8	4.06	3.28%	[100]	ug/L
Si 251.611†	13501.8	54.53	0.40%	[500]	ug/L
Sn 189.927†	451.5	5.99	1.33%	[100]	ug/L
Sr 421.552†	11645.2	57.14	0.49%	[100]	ug/L
Ti 334.940†	58784.9	20.77	0.04%	[100]	ug/L
Tl 190.801†	263.9	6.35	2.41%	[100]	ug/L
U 409.014†	3522.6	74.79	2.12%	[100]	ug/L
V 292.402†	13146.5	71.54	0.54%	[100]	ug/L
Zn 213.857†	8671.9	43.13	0.50%	[100]	ug/L
SiO2†	13531.2	146.55	1.08%	[1069.5]	ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/25/2010 07:50:09
 Data Type: Reprocessed on 3/25/2010 09:41:41
 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	841974.3	841974.3	100.25 %	07:53:19
1	Sc Radial	4011.4	4011.4	99.4 %	07:52:22
1	Y 371.029	709346.7	709346.7	99.060 %	07:53:19
1	Y RADIAL	4397.0	4397.0	97.32 %	07:52:01
1	Ag 328.068†	99753.1	99248.7	[500] ug/L	07:53:24
1	Al 396.153Radial†	4657.2	4762.9	[5000] ug/L	07:52:01
1	As 188.979†	906.2	924.8	[500] ug/L	07:53:44
1	B 249.677†	17632.0	17837.8	[500] ug/L	07:53:24
1	Ba 233.527†	53079.4	52927.4	[500] ug/L	07:53:24
1	Be 313.107†	1232123.8	1233285.8	[500] ug/L	07:53:19
1	Ca 317.933Radial†	2536.9	2533.9	[5000] ug/L	07:52:22
1	Cd 226.502†	35169.9	35247.8	[500] ug/L	07:53:24
1	Co 228.616†	19413.5	19403.5	[500] ug/L	07:53:24
1	Cr 267.716†	38241.2	38050.0	[500] ug/L	07:53:24
1	Cu 324.752†	157681.8	150932.2	[500] ug/L	07:53:24
1	K 766.490 Radial†	27275.5	24624.7	[5000] ug/L	07:52:01
1	Mg 279.077 IEC†	121.8	121.8	[5000] ug/L	07:52:22
1	Mn 257.610†	373488.5	372096.1	[500] ug/L	07:53:24
1	Mo 202.031†	5711.5	5682.9	[500] ug/L	07:53:44
1	Ni 231.604†	16266.4	16131.9	[500] ug/L	07:53:24
1	P 214.914†	3611.5	3434.2	[2500] ug/L	07:53:44
1	Pb 220.353†	3231.1	3281.8	[500] ug/L	07:53:44
1	S 181.975 Axial†	604.7	578.8	[1000] ug/L	07:53:44
1	Sb 206.836†	1191.8	1162.1	[500] ug/L	07:53:44
1	Se 196.026†	609.3	624.7	[500] ug/L	07:53:44
1	Si 251.611†	67271.8	66577.1	[2500] ug/L	07:53:24
1	Sn 189.927†	2251.0	2242.2	[500] ug/L	07:53:44
1	Sr 421.552†	56646.1	56892.7	[500] ug/L	07:52:01
1	Ti 334.940†	284907.4	285273.7	[500] ug/L	07:53:24
1	Tl 190.801†	1245.3	1267.2	[500] ug/L	07:53:44
1	U 409.014†	15111.9	17109.0	[500] ug/L	07:53:24
1	V 292.402†	62766.6	64036.2	[500] ug/L	07:53:24
1	Zn 213.857†	42526.1	41812.6	[500] ug/L	07:53:24
1	SiO2†	67019.3	66297.3	[5347.5] ug/L	07:54:51
2	Sc 361.383	846719.0	846719.0	100.82 %	07:53:49
2	Sc Radial	3978.2	3978.2	98.6 %	07:52:47
2	Y 371.029	713643.5	713643.5	99.660 %	07:53:49
2	Y RADIAL	4546.4	4546.4	100.6 %	07:52:27
2	Ag 328.068†	99872.8	98809.9	[500] ug/L	07:53:55
2	Al 396.153Radial†	4808.0	4954.9	[5000] ug/L	07:52:27
2	As 188.979†	911.1	924.5	[500] ug/L	07:54:15
2	B 249.677†	17631.3	17738.5	[500] ug/L	07:53:55
2	Ba 233.527†	53130.5	52681.3	[500] ug/L	07:53:55
2	Be 313.107†	1239244.9	1233462.1	[500] ug/L	07:53:49
2	Ca 317.933Radial†	2531.7	2550.0	[5000] ug/L	07:52:47
2	Cd 226.502†	35234.8	35115.6	[500] ug/L	07:53:55
2	Co 228.616†	19493.5	19374.4	[500] ug/L	07:53:55
2	Cr 267.716†	38351.3	37945.4	[500] ug/L	07:53:55
2	Cu 324.752†	157772.5	150140.8	[500] ug/L	07:53:55
2	K 766.490 Radial†	27961.8	25549.9	[5000] ug/L	07:52:27
2	Mg 279.077 IEC†	119.2	120.2	[5000] ug/L	07:52:47
2	Mn 257.610†	374023.1	370538.8	[500] ug/L	07:53:55
2	Mo 202.031†	5721.5	5660.9	[500] ug/L	07:54:15
2	Ni 231.604†	16358.6	16132.4	[500] ug/L	07:53:55
2	P 214.914†	3606.1	3408.7	[2500] ug/L	07:54:15
2	Pb 220.353†	3227.3	3260.0	[500] ug/L	07:54:15
2	S 181.975 Axial†	589.5	560.4	[1000] ug/L	07:54:15
2	Sb 206.836†	1197.0	1160.6	[500] ug/L	07:54:15

2	Se 196.026†	611.3	623.3	[500]	ug/L	07:54:15
2	Si 251.611†	67305.9	66234.9	[2500]	ug/L	07:53:55
2	Sn 189.927†	2268.2	2246.7	[500]	ug/L	07:54:15
2	Sr 421.552†	58458.6	59206.8	[500]	ug/L	07:52:27
2	Ti 334.940†	285442.2	284211.7	[500]	ug/L	07:53:55
2	Tl 190.801†	1248.6	1263.5	[500]	ug/L	07:54:15
2	U 409.014†	15058.7	16971.8	[500]	ug/L	07:53:55
2	V 292.402†	62929.8	63847.2	[500]	ug/L	07:53:55
2	Zn 213.857†	42713.5	41760.9	[500]	ug/L	07:53:55
2	SiO2†	66614.6	65521.3	[5347.5]	ug/L	07:54:56
3	Sc 361.383	830346.7	830346.7	98.868	%	07:54:20
3	Sc Radial	4008.7	4008.7	99.4	%	07:53:12
3	Y 371.029	700001.2	700001.2	97.755	%	07:54:20
3	Y RADIAL	4446.3	4446.3	98.41	%	07:52:52
3	Ag 328.068†	100388.7	101284.9	[500]	ug/L	07:54:25
3	Al 396.153Radial†	4724.6	4833.9	[5000]	ug/L	07:52:52
3	As 188.979†	897.7	928.8	[500]	ug/L	07:54:45
3	B 249.677†	17814.4	18268.5	[500]	ug/L	07:54:25
3	Ba 233.527†	53124.2	53714.0	[500]	ug/L	07:54:25
3	Be 313.107†	1217307.0	1235509.6	[500]	ug/L	07:54:20
3	Ca 317.933Radial†	2533.4	2532.1	[5000]	ug/L	07:53:12
3	Cd 226.502†	35214.6	35784.2	[500]	ug/L	07:54:25
3	Co 228.616†	19467.0	19728.9	[500]	ug/L	07:54:25
3	Cr 267.716†	38440.6	38785.8	[500]	ug/L	07:54:25
3	Cu 324.752†	159005.1	154473.2	[500]	ug/L	07:54:25
3	K 766.490 Radial†	27457.7	24826.7	[5000]	ug/L	07:52:52
3	Mg 279.077 IEC†	119.3	119.4	[5000]	ug/L	07:53:12
3	Mn 257.610†	374717.1	378555.7	[500]	ug/L	07:54:25
3	Mo 202.031†	5739.1	5790.7	[500]	ug/L	07:54:45
3	Ni 231.604†	16327.5	16420.9	[500]	ug/L	07:54:25
3	P 214.914†	3606.4	3479.5	[2500]	ug/L	07:54:45
3	Pb 220.353†	3223.1	3318.8	[500]	ug/L	07:54:45
3	S 181.975 Axial†	597.5	580.0	[1000]	ug/L	07:54:45
3	Sb 206.836†	1202.1	1189.2	[500]	ug/L	07:54:45
3	Se 196.026†	603.7	627.5	[500]	ug/L	07:54:45
3	Si 251.611†	67670.2	67919.6	[2500]	ug/L	07:54:25
3	Sn 189.927†	2265.1	2288.0	[500]	ug/L	07:54:45
3	Sr 421.552†	57171.8	57460.4	[500]	ug/L	07:52:52
3	Ti 334.940†	286774.2	291141.6	[500]	ug/L	07:54:25
3	Tl 190.801†	1251.4	1290.8	[500]	ug/L	07:54:45
3	U 409.014†	15285.7	17495.9	[500]	ug/L	07:54:25
3	V 292.402†	63332.3	65485.1	[500]	ug/L	07:54:25
3	Zn 213.857†	42602.5	42483.9	[500]	ug/L	07:54:25
3	SiO2†	67335.3	67553.0	[5347.5]	ug/L	07:55:01

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	839680.0	8423.83	1.00%	99.979	%
Sc Radial	3999.4	18.47	0.46%	99.1	%
Y 371.029	707663.8	6975.11	0.99%	98.825	%
Y RADIAL	4463.2	76.14	1.71%	98.79	%
Ag 328.068†	99781.2	1320.62	1.32%	[500]	ug/L
Al 396.153Radial†	4850.6	97.12	2.00%	[5000]	ug/L
As 188.979†	926.0	2.43	0.26%	[500]	ug/L
B 249.677†	17948.3	281.73	1.57%	[500]	ug/L
Ba 233.527†	53107.6	539.46	1.02%	[500]	ug/L
Be 313.107†	1234085.9	1236.18	0.10%	[500]	ug/L
Ca 317.933Radial†	2538.7	9.87	0.39%	[5000]	ug/L
Cd 226.502†	35382.6	354.09	1.00%	[500]	ug/L
Co 228.616†	19502.3	196.78	1.01%	[500]	ug/L
Cr 267.716†	38260.4	458.03	1.20%	[500]	ug/L
Cu 324.752†	151848.7	2307.01	1.52%	[500]	ug/L
K 766.490 Radial†	25000.4	486.47	1.95%	[5000]	ug/L
Mg 279.077 IEC†	120.4	1.22	1.01%	[5000]	ug/L
Mn 257.610†	373730.2	4250.94	1.14%	[500]	ug/L
Mo 202.031†	5711.5	69.44	1.22%	[500]	ug/L
Ni 231.604†	16228.4	166.71	1.03%	[500]	ug/L
P 214.914†	3440.8	35.84	1.04%	[2500]	ug/L
Pb 220.353†	3286.9	29.77	0.91%	[500]	ug/L

S 181.975 Axial†	573.1	11.00	1.92%	[1000]	ug/L
Sb 206.836†	1170.7	16.08	1.37%	[500]	ug/L
Se 196.026†	625.2	2.13	0.34%	[500]	ug/L
Si 251.611†	66910.5	890.51	1.33%	[2500]	ug/L
Sn 189.927†	2259.0	25.23	1.12%	[500]	ug/L
Sr 421.552†	57853.3	1206.07	2.08%	[500]	ug/L
Ti 334.940†	286875.7	3732.34	1.30%	[500]	ug/L
Tl 190.801†	1273.9	14.82	1.16%	[500]	ug/L
U 409.014†	17192.2	271.83	1.58%	[500]	ug/L
V 292.402†	64456.1	896.08	1.39%	[500]	ug/L
Zn 213.857†	42019.1	403.33	0.96%	[500]	ug/L
SiO2†	66457.2	1025.28	1.54%	[5347.5]	ug/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/25/2010 07:57:12
 Data Type: Reprocessed on 3/25/2010 09:41:42
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	836028.2	836028.2	99.544 %	08:00:24
1	Sc Radial	3994.3	3994.3	99.0 %	07:59:25
1	Y 371.029	702397.8	702397.8	98.090 %	08:00:24
1	Y RADIAL	4515.2	4515.2	99.94 %	07:59:05
1	Ag 328.068†	197469.4	198119.9	[1000] ug/L	08:00:24
1	Al 396.153Radial†	9697.8	9873.3	[10000] ug/L	07:59:05
1	As 188.979†	1838.9	1868.2	[1000] ug/L	08:00:44
1	B 249.677†	36156.4	36572.1	[1000] ug/L	08:00:24
1	Ba 233.527†	106341.0	106809.3	[1000] ug/L	08:00:24
1	Be 313.107†	2447465.3	2462931.9	[1000] ug/L	08:00:24
1	Ca 317.933Radial†	5226.4	5260.9	[10000] ug/L	07:59:05
1	Cd 226.502†	70535.9	71025.2	[1000] ug/L	08:00:24
1	Co 228.616†	37910.1	38122.6	[1000] ug/L	08:00:44
1	Cr 267.716†	76637.1	76893.0	[1000] ug/L	08:00:24
1	Cu 324.752†	314991.4	310080.6	[1000] ug/L	08:00:24
1	Fe 238.204 Radial†	829.7	828.9	[10000] ug/L	07:59:25
1	K 766.490 Radial†	53321.8	51046.0	[10000] ug/L	07:59:05
1	Mg 279.077 IEC†	240.5	242.2	[10000] ug/L	07:59:25
1	Mn 257.610†	763213.2	766254.6	[1000] ug/L	08:00:24
1	Mo 202.031†	11272.6	11310.1	[1000] ug/L	08:00:44
1	Na 589.592 Radial†	25374.6	26086.5	[10000] ug/L	07:59:05
1	Ni 231.604†	31742.4	31794.1	[1000] ug/L	08:00:44
1	P 214.914†	7085.2	6949.4	[5000] ug/L	08:00:44
1	Pb 220.353†	6541.7	6630.4	[1000] ug/L	08:00:44
1	S 181.975 Axial†	1148.2	1129.1	[2000] ug/L	08:00:44
1	Sb 206.836†	2364.0	2348.2	[1000] ug/L	08:00:44
1	Se 196.026†	1226.1	1248.6	[1000] ug/L	08:00:44
1	Si 251.611†	134437.9	134527.9	[5000] ug/L	08:00:24
1	Sn 189.927†	4478.2	4495.7	[1000] ug/L	08:00:44
1	Sr 421.552†	119226.7	120335.9	[1000] ug/L	07:59:05
1	Ti 334.940†	579430.6	583166.5	[1000] ug/L	08:00:24
1	Tl 190.801†	2544.0	2580.7	[1000] ug/L	08:00:44
1	U 409.014†	31774.2	33954.8	[1000] ug/L	08:00:24
1	V 292.402†	128014.4	130027.9	[1000] ug/L	08:00:24
1	Zn 213.857†	84582.3	84363.1	[1000] ug/L	08:00:24
1	SiO2†	134145.3	134206.0	[10695] ug/L	08:01:44
2	Sc 361.383	836081.3	836081.3	99.551 %	08:00:52
2	Sc Radial	4034.2	4034.2	100 %	07:59:50
2	Y 371.029	701502.4	701502.4	97.965 %	08:00:52
2	Y RADIAL	4436.0	4436.0	98.18 %	07:59:30
2	Ag 328.068†	197172.0	197808.6	[1000] ug/L	08:00:52
2	Al 396.153Radial†	9444.3	9523.1	[10000] ug/L	07:59:30
2	As 188.979†	1834.8	1863.9	[1000] ug/L	08:01:12
2	B 249.677†	36051.8	36464.7	[1000] ug/L	08:00:52
2	Ba 233.527†	106428.6	106890.5	[1000] ug/L	08:00:52
2	Be 313.107†	2443182.4	2458473.5	[1000] ug/L	08:00:52
2	Ca 317.933Radial†	5131.6	5113.9	[10000] ug/L	07:59:30
2	Cd 226.502†	70504.1	70988.8	[1000] ug/L	08:00:52
2	Co 228.616†	38159.4	38370.5	[1000] ug/L	08:01:12
2	Cr 267.716†	76709.6	76960.9	[1000] ug/L	08:00:52
2	Cu 324.752†	313793.7	308857.4	[1000] ug/L	08:00:52
2	Fe 238.204 Radial†	828.9	819.8	[10000] ug/L	07:59:50
2	K 766.490 Radial†	52330.3	49522.1	[10000] ug/L	07:59:30
2	Mg 279.077 IEC†	243.7	243.0	[10000] ug/L	07:59:50
2	Mn 257.610†	763197.2	766189.8	[1000] ug/L	08:00:52
2	Mo 202.031†	11357.3	11394.4	[1000] ug/L	08:01:12
2	Na 589.592 Radial†	24781.1	25239.7	[10000] ug/L	07:59:30
2	Ni 231.604†	31956.8	32007.4	[1000] ug/L	08:01:12

2	P 214.914†	7127.7	6991.6	[5000]	ug/L	08:01:12
2	Pb 220.353†	6577.0	6665.5	[1000]	ug/L	08:01:12
2	S 181.975 Axial†	1167.6	1148.5	[2000]	ug/L	08:01:12
2	Sb 206.836†	2383.9	2368.0	[1000]	ug/L	08:01:12
2	Se 196.026†	1242.5	1265.0	[1000]	ug/L	08:01:12
2	Si 251.611†	134446.4	134527.9	[5000]	ug/L	08:00:52
2	Sn 189.927†	4509.1	4526.4	[1000]	ug/L	08:01:12
2	Sr 421.552†	116230.7	116149.7	[1000]	ug/L	07:59:30
2	Ti 334.940†	579678.4	583378.4	[1000]	ug/L	08:00:52
2	Tl 190.801†	2562.3	2598.9	[1000]	ug/L	08:01:12
2	U 409.014†	31634.3	33812.2	[1000]	ug/L	08:00:52
2	V 292.402†	127716.9	129720.9	[1000]	ug/L	08:00:52
2	Zn 213.857†	84422.3	84197.0	[1000]	ug/L	08:00:52
2	SiO2†	133295.9	133344.3	[10695]	ug/L	08:01:50
3	Sc 361.383	833096.1	833096.1	99.195	%	08:01:19
3	Sc Radial	4008.5	4008.5	99.4	%	08:00:15
3	Y 371.029	700484.3	700484.3	97.823	%	08:01:19
3	Y RADIAL	4465.3	4465.3	98.83	%	07:59:55
3	Ag 328.068†	196785.4	198128.7	[1000]	ug/L	08:01:19
3	Al 396.153Radial†	9492.4	9632.0	[10000]	ug/L	07:59:55
3	As 188.979†	1838.4	1874.1	[1000]	ug/L	08:01:39
3	B 249.677†	35948.9	36490.7	[1000]	ug/L	08:01:19
3	Ba 233.527†	105720.3	106559.5	[1000]	ug/L	08:01:19
3	Be 313.107†	2438545.2	2462592.9	[1000]	ug/L	08:01:19
3	Ca 317.933Radial†	5137.4	5152.7	[10000]	ug/L	07:59:55
3	Cd 226.502†	70062.2	70797.0	[1000]	ug/L	08:01:19
3	Co 228.616†	37950.4	38297.2	[1000]	ug/L	08:01:39
3	Cr 267.716†	76200.3	76723.6	[1000]	ug/L	08:01:19
3	Cu 324.752†	313478.5	309669.1	[1000]	ug/L	08:01:19
3	Fe 238.204 Radial†	827.7	823.9	[10000]	ug/L	08:00:15
3	K 766.490 Radial†	52343.1	49870.6	[10000]	ug/L	07:59:55
3	Mg 279.077 IEC†	239.0	239.8	[10000]	ug/L	08:00:15
3	Mn 257.610†	758515.2	764216.9	[1000]	ug/L	08:01:19
3	Mo 202.031†	11295.5	11372.9	[1000]	ug/L	08:01:39
3	Na 589.592 Radial†	24817.1	25434.8	[10000]	ug/L	07:59:55
3	Ni 231.604†	31760.6	31924.6	[1000]	ug/L	08:01:39
3	P 214.914†	7088.9	6978.2	[5000]	ug/L	08:01:39
3	Pb 220.353†	6530.7	6642.5	[1000]	ug/L	08:01:39
3	S 181.975 Axial†	1156.2	1141.2	[2000]	ug/L	08:01:39
3	Sb 206.836†	2361.3	2353.8	[1000]	ug/L	08:01:39
3	Se 196.026†	1227.7	1254.6	[1000]	ug/L	08:01:39
3	Si 251.611†	133582.1	134140.4	[5000]	ug/L	08:01:19
3	Sn 189.927†	4487.7	4521.0	[1000]	ug/L	08:01:39
3	Sr 421.552†	116468.3	117134.2	[1000]	ug/L	07:59:55
3	Ti 334.940†	576770.7	582533.7	[1000]	ug/L	08:01:19
3	Tl 190.801†	2561.0	2606.9	[1000]	ug/L	08:01:39
3	U 409.014†	31561.3	33852.5	[1000]	ug/L	08:01:19
3	V 292.402†	127502.9	129965.0	[1000]	ug/L	08:01:19
3	Zn 213.857†	83921.6	83996.1	[1000]	ug/L	08:01:19
3	SiO2†	134171.9	134707.1	[10695]	ug/L	08:01:55

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	835068.6	1708.41	0.20%	99.430 %
Sc Radial	4012.3	20.22	0.50%	99.5 %
Y 371.029	701461.5	957.39	0.14%	97.959 %
Y RADIAL	4472.2	40.09	0.90%	98.98 %
Ag 328.068†	198019.1	182.31	0.09%	[1000] ug/L
Al 396.153Radial†	9676.1	179.24	1.85%	[10000] ug/L
As 188.979†	1868.7	5.15	0.28%	[1000] ug/L
B 249.677†	36509.2	56.02	0.15%	[1000] ug/L
Ba 233.527†	106753.1	172.50	0.16%	[1000] ug/L
Be 313.107†	2461332.8	2481.99	0.10%	[1000] ug/L
Ca 317.933Radial†	5175.8	76.18	1.47%	[10000] ug/L
Cd 226.502†	70937.0	122.57	0.17%	[1000] ug/L
Co 228.616†	38263.4	127.38	0.33%	[1000] ug/L
Cr 267.716†	76859.2	122.25	0.16%	[1000] ug/L
Cu 324.752†	309535.7	622.39	0.20%	[1000] ug/L
Fe 238.204 Radial†	824.2	4.59	0.56%	[10000] ug/L

K 766.490 Radial†	50146.2	798.45	1.59%	[10000]	ug/L
Mg 279.077 IEC†	241.7	1.64	0.68%	[10000]	ug/L
Mn 257.610†	765553.8	1158.21	0.15%	[1000]	ug/L
Mo 202.031†	11359.1	43.82	0.39%	[1000]	ug/L
Na 589.592 Radial†	25587.0	443.45	1.73%	[10000]	ug/L
Ni 231.604†	31908.7	107.52	0.34%	[1000]	ug/L
P 214.914†	6973.1	21.55	0.31%	[5000]	ug/L
Pb 220.353†	6646.1	17.84	0.27%	[1000]	ug/L
S 181.975 Axial†	1139.6	9.78	0.86%	[2000]	ug/L
Sb 206.836†	2356.7	10.22	0.43%	[1000]	ug/L
Se 196.026†	1256.1	8.31	0.66%	[1000]	ug/L
Si 251.611†	134398.7	223.70	0.17%	[5000]	ug/L
Sn 189.927†	4514.4	16.43	0.36%	[1000]	ug/L
Sr 421.552†	117873.3	2188.78	1.86%	[1000]	ug/L
Ti 334.940†	583026.2	439.50	0.08%	[1000]	ug/L
Tl 190.801†	2595.5	13.42	0.52%	[1000]	ug/L
U 409.014†	33873.2	73.50	0.22%	[1000]	ug/L
V 292.402†	129904.6	162.16	0.12%	[1000]	ug/L
Zn 213.857†	84185.4	183.77	0.22%	[1000]	ug/L
SiO2†	134085.8	689.33	0.51%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/25/2010 08:04:05

Data Type: Reprocessed on 3/25/2010 09:41:43

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	814570.1	814570.1	96.989 %	08:07:16
1	Sc Radial	4084.3	4084.3	101 %	08:06:19
1	Y 371.029	681370.4	681370.4	95.154 %	08:07:16
1	Y RADIAL	4398.8	4398.8	97.36 %	08:06:19
1	Al 396.153Radial†	46686.9	46189.2	[50000] ug/L	08:05:59
1	Ca 317.933Radial†	24518.1	24197.7	[50000] ug/L	08:05:59
1	Fe 238.204 Radial†	1599.7	1570.9	[20000] ug/L	08:06:19
1	Mg 279.077 IEC†	1150.4	1135.5	[50000] ug/L	08:06:19
1	Na 589.592 Radial†	50513.9	50350.1	[20000] ug/L	08:05:59
2	Sc 361.383	811526.2	811526.2	96.627 %	08:07:22
2	Sc Radial	4063.0	4063.0	101 %	08:06:44
2	Y 371.029	679014.3	679014.3	94.824 %	08:07:22
2	Y RADIAL	4381.4	4381.4	96.98 %	08:06:44
2	Al 396.153Radial†	46908.1	46650.8	[50000] ug/L	08:06:24
2	Ca 317.933Radial†	24653.9	24459.6	[50000] ug/L	08:06:24
2	Fe 238.204 Radial†	1623.7	1603.0	[20000] ug/L	08:06:44
2	Mg 279.077 IEC†	1154.0	1145.0	[50000] ug/L	08:06:44
2	Na 589.592 Radial†	50550.6	50648.4	[20000] ug/L	08:06:24
3	Sc 361.383	813679.7	813679.7	96.883 %	08:07:27
3	Sc Radial	4043.8	4043.8	100 %	08:07:09
3	Y 371.029	680826.7	680826.7	95.078 %	08:07:27
3	Y RADIAL	4360.6	4360.6	96.52 %	08:07:09
3	Al 396.153Radial†	47719.4	47681.3	[50000] ug/L	08:06:49
3	Ca 317.933Radial†	25074.0	24995.0	[50000] ug/L	08:06:49
3	Fe 238.204 Radial†	1600.5	1587.6	[20000] ug/L	08:07:09
3	Mg 279.077 IEC†	1147.4	1143.9	[50000] ug/L	08:07:09
3	Na 589.592 Radial†	51265.0	51599.4	[20000] ug/L	08:06:49

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	813258.7	1565.00	0.19%	96.833 %
Sc Radial	4063.7	20.28	0.50%	101 %
Y 371.029	680403.8	1233.62	0.18%	95.019 %
Y RADIAL	4380.3	19.11	0.44%	96.95 %
Al 396.153Radial†	46840.5	763.94	1.63%	[50000] ug/L
Ca 317.933Radial†	24550.8	406.35	1.66%	[50000] ug/L
Fe 238.204 Radial†	1587.2	16.06	1.01%	[20000] ug/L
Mg 279.077 IEC†	1141.4	5.19	0.45%	[50000] ug/L
Na 589.592 Radial†	50866.0	652.44	1.28%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	198.4	0.00000	0.999994	
Al 396.153Radial	3	Lin Thru 0	0.0	0.9383	0.00000	0.999975	
As 188.979	3	Lin Thru 0	0.0	1.865	0.00000	0.999994	
B 249.677	3	Lin Thru 0	0.0	36.38	0.00000	0.999976	
Ba 233.527	3	Lin Thru 0	0.0	106.7	0.00000	0.999994	
Be 313.107	3	Lin Thru 0	0.0	2463	0.00000	0.999998	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.4922	0.00000	0.999942	
Cd 226.502	3	Lin Thru 0	0.0	70.90	0.00000	1.000000	
Co 228.616	3	Lin Thru 0	0.0	38.42	0.00000	0.999966	
Cr 267.716	3	Lin Thru 0	0.0	76.81	0.00000	0.999995	
Cu 324.752	3	Lin Thru 0	0.0	308.4	0.00000	0.999971	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0800	0.00000	0.999883	

K 766.490 Radial	3	Lin Thru 0	0.0	5.009	0.00000	0.999984
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0229	0.00000	0.999924
Mn 257.610	3	Lin Thru 0	0.0	762.2	0.00000	0.999950
Mo 202.031	3	Lin Thru 0	0.0	11.37	0.00000	0.999994
Na 589.592 Radia	2	Lin Thru 0	0.0	2.546	0.00000	0.999997
Ni 231.604	3	Lin Thru 0	0.0	32.03	0.00000	0.999974
P 214.914	3	Lin Thru 0	0.0	1.391	0.00000	0.999984
Pb 220.353	3	Lin Thru 0	0.0	6.633	0.00000	0.999988
S 181.975 Axial	3	Lin Thru 0	0.0	0.5705	0.00000	0.999997
Sb 206.836	3	Lin Thru 0	0.0	2.354	0.00000	0.999997
Se 196.026	3	Lin Thru 0	0.0	1.255	0.00000	0.999998
Si 251.611	3	Lin Thru 0	0.0	26.86	0.00000	0.999998
Sn 189.927	3	Lin Thru 0	0.0	4.515	0.00000	1.000000
Sr 421.552	3	Lin Thru 0	0.0	117.4	0.00000	0.999973
Ti 334.940	3	Lin Thru 0	0.0	581.2	0.00000	0.999979
Tl 190.801	3	Lin Thru 0	0.0	2.586	0.00000	0.999971
U 409.014	3	Lin Thru 0	0.0	33.99	0.00000	0.999977
V 292.402	3	Lin Thru 0	0.0	129.7	0.00000	0.999995
Zn 213.857	3	Lin Thru 0	0.0	84.18	0.00000	0.999996
SiO2	3	Lin Thru 0	0.0	12.52	0.00000	0.999993

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 3/25/2010 08:09:39
 Data Type: Reprocessed on 3/25/2010 09:41:43
 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	843298.4	843298.4	100.41 %		08:12:50
1	Sc Radial	4058.8	4058.8	101 %		08:11:52
1	Y 371.029	711724.4	711724.4	99.392 %		08:12:50
1	Y RADIAL	4543.6	4543.6	100.6 %		08:11:32
1	Ag 328.068†	50729.3	50268.8	256.51 ug/L	256.51 ppb	08:12:50
1	Al 396.153Radial†	4683.0	4733.8	5019.8 ug/L	5019.8 ppb	08:11:32
1	As 188.979†	850.7	868.1	469.50 ug/L	469.50 ppb	08:13:10
1	B 249.677†	18280.2	18455.8	505.05 ug/L	505.05 ppb	08:12:50
1	Ba 233.527†	53540.9	53303.8	500.94 ug/L	500.94 ppb	08:12:50
1	Be 313.107†	629873.9	631564.9	257.53 ug/L	257.53 ppb	08:12:50
1	Ca 317.933Radial†	2489.7	2457.2	4992.5 ug/L	4992.5 ppb	08:11:52
1	Cd 226.502†	34793.5	34817.8	490.96 ug/L	490.96 ppb	08:12:50
1	Co 228.616†	19521.9	19481.2	507.19 ug/L	507.19 ppb	08:12:50
1	Cr 267.716†	37001.8	36755.7	479.57 ug/L	479.57 ppb	08:12:50
1	Cu 324.752†	159928.8	152923.1	495.85 ug/L	495.85 ppb	08:12:50
1	Fe 238.204 Radial†	407.9	396.4	4971.6 ug/L	4971.6 ppb	08:11:52
1	K 766.490 Radial†	14878.9	11984.1	2389.0 ug/L	2389.0 ppb	08:11:32
1	Mg 279.077 IEC†	126.1	124.6	5444.5 ug/L	5444.5 ppb	08:11:52
1	Mn 257.610†	388057.6	386020.7	506.75 ug/L	506.75 ppb	08:12:50
1	Mo 202.031†	5979.0	5940.4	522.71 ug/L	522.71 ppb	08:13:10
1	Na 589.592 Radial†	5679.6	6105.5	2397.7 ug/L	2397.7 ppb	08:11:32
1	Ni 231.604†	16230.7	16070.8	501.51 ug/L	501.51 ppb	08:12:50
1	P 214.914†	3597.5	3414.5	2358.0 ug/L	2358.0 ppb	08:13:10
1	Pb 220.353†	3186.3	3232.1	488.77 ug/L	488.77 ppb	08:13:10
1	S 181.975 Axial†	1426.8	1396.5	2446.9 ug/L	2446.9 ppb	08:13:10
1	Sb 206.836†	1202.7	1171.1	516.46 ug/L	516.46 ppb	08:13:10
1	Se 196.026†	3154.3	3158.4	2535.2 ug/L	2535.2 ppb	08:13:10
1	Si 251.611†	130767.6	129708.3	4823.0 ug/L	4823.0 ppb	08:12:50
1	Sn 189.927†	2381.5	2368.7	525.23 ug/L	525.23 ppb	08:13:10
1	Sr 421.552†	60508.2	60066.0	511.46 ug/L	511.46 ppb	08:11:32
1	Ti 334.940†	283956.8	283880.8	488.25 ug/L	488.25 ppb	08:12:50
1	Tl 190.801†	1308.4	1328.1	516.81 ug/L	516.81 ppb	08:13:10
1	U 409.014†	14740.8	16715.8	490.22 ug/L	490.22 ppb	08:12:50
1	V 292.402†	63391.1	64559.8	504.70 ug/L	504.70 ppb	08:12:50
1	Zn 213.857†	43188.5	42405.7	499.16 ug/L	499.16 ppb	08:12:50
1	SiO2†	130561.9	129475.5	10330 ug/L	10330 ppb	08:14:07
2	Sc 361.383	842302.4	842302.4	100.29 %		08:13:16
2	Sc Radial	4067.3	4067.3	101 %		08:12:17
2	Y 371.029	712092.4	712092.4	99.444 %		08:13:16
2	Y RADIAL	4460.7	4460.7	98.73 %		08:11:57
2	Ag 328.068†	50524.5	50124.3	255.82 ug/L	255.82 ppb	08:13:16
2	Al 396.153Radial†	4620.0	4661.7	4942.8 ug/L	4942.8 ppb	08:11:57
2	As 188.979†	845.7	864.1	467.39 ug/L	467.39 ppb	08:13:36
2	B 249.677†	18250.8	18448.0	504.82 ug/L	504.82 ppb	08:13:16
2	Ba 233.527†	53459.3	53285.5	500.78 ug/L	500.78 ppb	08:13:16
2	Be 313.107†	628837.8	631273.6	257.41 ug/L	257.41 ppb	08:13:16
2	Ca 317.933Radial†	2509.4	2471.6	5021.6 ug/L	5021.6 ppb	08:12:17
2	Cd 226.502†	34635.2	34701.0	489.30 ug/L	489.30 ppb	08:13:16
2	Co 228.616†	19421.1	19403.6	505.17 ug/L	505.17 ppb	08:13:16
2	Cr 267.716†	36958.2	36755.9	479.58 ug/L	479.58 ppb	08:13:16
2	Cu 324.752†	159577.2	152760.8	495.33 ug/L	495.33 ppb	08:13:16
2	Fe 238.204 Radial†	418.6	406.1	5093.4 ug/L	5093.4 ppb	08:12:17
2	K 766.490 Radial†	14951.5	12025.2	2397.2 ug/L	2397.2 ppb	08:11:57
2	Mg 279.077 IEC†	122.9	121.1	5292.0 ug/L	5292.0 ppb	08:12:17
2	Mn 257.610†	386444.7	384869.6	505.25 ug/L	505.25 ppb	08:13:16
2	Mo 202.031†	5982.3	5950.7	523.62 ug/L	523.62 ppb	08:13:36
2	Na 589.592 Radial†	5628.5	6043.1	2373.2 ug/L	2373.2 ppb	08:11:57
2	Ni 231.604†	16204.1	16063.4	501.28 ug/L	501.28 ppb	08:13:16

2	P 214.914†	3559.1	3380.6	2333.6 ug/L	2333.6 ppb	08:13:36
2	Pb 220.353†	3179.4	3229.0	488.27 ug/L	488.27 ppb	08:13:36
2	S 181.975 Axial†	1405.2	1376.7	2412.2 ug/L	2412.2 ppb	08:13:36
2	Sb 206.836†	1195.3	1165.2	513.96 ug/L	513.96 ppb	08:13:36
2	Se 196.026†	3149.2	3157.0	2534.5 ug/L	2534.5 ppb	08:13:36
2	Si 251.611†	130475.1	129570.6	4817.9 ug/L	4817.9 ppb	08:13:16
2	Sn 189.927†	2382.9	2372.9	526.16 ug/L	526.16 ppb	08:13:36
2	Sr 421.552†	59644.2	59083.3	503.09 ug/L	503.09 ppb	08:11:57
2	Ti 334.940†	283263.7	283524.1	487.66 ug/L	487.66 ppb	08:13:16
2	Tl 190.801†	1313.2	1334.5	519.26 ug/L	519.26 ppb	08:13:36
2	U 409.014†	14719.5	16711.9	490.09 ug/L	490.09 ppb	08:13:16
2	V 292.402†	63393.4	64636.8	505.28 ug/L	505.28 ppb	08:13:16
2	Zn 213.857†	43022.0	42290.5	497.78 ug/L	497.78 ppb	08:13:16
2	SiO2†	130875.2	129941.7	10367 ug/L	10367 ppb	08:14:12
3	Sc 361.383	844277.2	844277.2	100.53 %		08:13:42
3	Sc Radial	4040.1	4040.1	100 %		08:12:42
3	Y 371.029	715025.4	715025.4	99.853 %		08:13:42
3	Y RADIAL	4511.5	4511.5	99.85 %		08:12:22
3	Ag 328.068†	50732.1	50213.0	256.25 ug/L	256.25 ppb	08:13:42
3	Al 396.153Radial†	4672.0	4744.4	5030.9 ug/L	5030.9 ppb	08:12:22
3	As 188.979†	859.7	876.0	473.77 ug/L	473.77 ppb	08:14:02
3	B 249.677†	18268.9	18423.4	504.15 ug/L	504.15 ppb	08:13:42
3	Ba 233.527†	53393.8	53095.7	498.99 ug/L	498.99 ppb	08:13:42
3	Be 313.107†	630940.7	631899.0	257.66 ug/L	257.66 ppb	08:13:42
3	Ca 317.933Radial†	2492.0	2471.0	5020.5 ug/L	5020.5 ppb	08:12:42
3	Cd 226.502†	34749.8	34734.2	489.78 ug/L	489.78 ppb	08:13:42
3	Co 228.616†	19515.8	19452.5	506.45 ug/L	506.45 ppb	08:13:42
3	Cr 267.716†	37132.6	36843.2	480.71 ug/L	480.71 ppb	08:13:42
3	Cu 324.752†	159808.9	152619.1	494.87 ug/L	494.87 ppb	08:13:42
3	Fe 238.204 Radial†	411.6	401.9	5041.1 ug/L	5041.1 ppb	08:12:42
3	K 766.490 Radial†	15096.1	12269.6	2446.0 ug/L	2446.0 ppb	08:12:22
3	Mg 279.077 IEC†	122.6	121.7	5315.4 ug/L	5315.4 ppb	08:12:42
3	Mn 257.610†	386713.6	384235.8	504.42 ug/L	504.42 ppb	08:13:42
3	Mo 202.031†	6019.8	5974.0	525.67 ug/L	525.67 ppb	08:14:02
3	Na 589.592 Radial†	5701.0	6153.1	2416.4 ug/L	2416.4 ppb	08:12:22
3	Ni 231.604†	16184.2	16005.8	499.48 ug/L	499.48 ppb	08:13:42
3	P 214.914†	3628.1	3440.9	2377.1 ug/L	2377.1 ppb	08:14:02
3	Pb 220.353†	3191.4	3233.5	488.99 ug/L	488.99 ppb	08:14:02
3	S 181.975 Axial†	1430.7	1398.8	2451.0 ug/L	2451.0 ppb	08:14:02
3	Sb 206.836†	1214.4	1181.4	520.96 ug/L	520.96 ppb	08:14:02
3	Se 196.026†	3167.2	3167.5	2542.7 ug/L	2542.7 ppb	08:14:02
3	Si 251.611†	130436.3	129227.7	4805.1 ug/L	4805.1 ppb	08:13:42
3	Sn 189.927†	2406.3	2390.6	530.07 ug/L	530.07 ppb	08:14:02
3	Sr 421.552†	60231.3	60068.5	511.48 ug/L	511.48 ppb	08:12:22
3	Ti 334.940†	283386.8	282985.9	486.73 ug/L	486.73 ppb	08:13:42
3	Tl 190.801†	1324.7	1342.8	522.49 ug/L	522.49 ppb	08:14:02
3	U 409.014†	14536.5	16495.5	483.73 ug/L	483.73 ppb	08:13:42
3	V 292.402†	63455.8	64551.0	504.65 ug/L	504.65 ppb	08:13:42
3	Zn 213.857†	43118.0	42285.8	497.74 ug/L	497.74 ppb	08:13:42
3	SiO2†	130153.9	128918.9	10286 ug/L	10286 ppb	08:14:17

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843292.7	100.41 %	0.118			0.12%
Sc Radial	4055.4	101 %	0.3			0.34%
Y 371.029	712947.4	99.563 %	0.2526			0.25%
Y RADIAL	4505.2	99.72 %	0.925			0.93%
Ag 328.068†	50202.0	256.19 ug/L	0.348	256.19 ppb	0.348	0.14%
QC value within limits for Ag 328.068 Recovery = 102.48%						
Al 396.153Radial†	4713.3	4997.9 ug/L	47.98	4997.9 ppb	47.98	0.96%
QC value within limits for Al 396.153Radial Recovery = 99.96%						
As 188.979†	869.4	470.22 ug/L	3.249	470.22 ppb	3.249	0.69%
QC value within limits for As 188.979 Recovery = 94.04%						
B 249.677†	18442.4	504.67 ug/L	0.467	504.67 ppb	0.467	0.09%
QC value within limits for B 249.677 Recovery = 100.93%						
Ba 233.527†	53228.3	500.24 ug/L	1.080	500.24 ppb	1.080	0.22%
QC value within limits for Ba 233.527 Recovery = 100.05%						
Be 313.107†	631579.2	257.53 ug/L	0.126	257.53 ppb	0.126	0.05%
QC value within limits for Be 313.107 Recovery = 103.01%						

Ca 317.933Radial†	2466.6	5011.5 ug/L	16.52	5011.5 ppb	16.52	0.33%
QC value within limits for Ca 317.933Radial Recovery = 100.23%						
Cd 226.502†	34751.0	490.01 ug/L	0.856	490.01 ppb	0.856	0.17%
QC value within limits for Cd 226.502 Recovery = 98.00%						
Co 228.616†	19445.8	506.27 ug/L	1.020	506.27 ppb	1.020	0.20%
QC value within limits for Co 228.616 Recovery = 101.25%						
Cr 267.716†	36784.9	479.95 ug/L	0.659	479.95 ppb	0.659	0.14%
QC value within limits for Cr 267.716 Recovery = 95.99%						
Cu 324.752†	152767.7	495.35 ug/L	0.489	495.35 ppb	0.489	0.10%
QC value within limits for Cu 324.752 Recovery = 99.07%						
Fe 238.204 Radial†	401.5	5035.3 ug/L	61.10	5035.3 ppb	61.10	1.21%
QC value within limits for Fe 238.204 Radial Recovery = 100.71%						
K 766.490 Radial†	12093.0	2410.7 ug/L	30.80	2410.7 ppb	30.80	1.28%
QC value within limits for K 766.490 Radial Recovery = 96.43%						
Mg 279.077 IEC†	122.5	5350.6 ug/L	82.15	5350.6 ppb	82.15	1.54%
QC value within limits for Mg 279.077 IEC Recovery = 107.01%						
Mn 257.610†	385042.1	505.47 ug/L	1.180	505.47 ppb	1.180	0.23%
QC value within limits for Mn 257.610 Recovery = 101.09%						
Mo 202.031†	5955.1	524.00 ug/L	1.515	524.00 ppb	1.515	0.29%
QC value within limits for Mo 202.031 Recovery = 104.80%						
Na 589.592 Radial†	6100.6	2395.8 ug/L	21.67	2395.8 ppb	21.67	0.90%
QC value within limits for Na 589.592 Radial Recovery = 95.83%						
Ni 231.604†	16046.7	500.75 ug/L	1.111	500.75 ppb	1.111	0.22%
QC value within limits for Ni 231.604 Recovery = 100.15%						
P 214.914†	3412.0	2356.2 ug/L	21.83	2356.2 ppb	21.83	0.93%
QC value within limits for P 214.914 Recovery = 94.25%						
Pb 220.353†	3231.5	488.68 ug/L	0.368	488.68 ppb	0.368	0.08%
QC value within limits for Pb 220.353 Recovery = 97.74%						
S 181.975 Axial†	1390.7	2436.7 ug/L	21.32	2436.7 ppb	21.32	0.88%
QC value within limits for S 181.975 Axial Recovery = 97.47%						
Sb 206.836†	1172.6	517.12 ug/L	3.550	517.12 ppb	3.550	0.69%
QC value within limits for Sb 206.836 Recovery = 103.42%						
Se 196.026†	3161.0	2537.5 ug/L	4.58	2537.5 ppb	4.58	0.18%
QC value within limits for Se 196.026 Recovery = 101.50%						
Si 251.611†	129502.2	4815.3 ug/L	9.23	4815.3 ppb	9.23	0.19%
QC value within limits for Si 251.611 Recovery = 96.31%						
Sn 189.927†	2377.4	527.15 ug/L	2.570	527.15 ppb	2.570	0.49%
QC value within limits for Sn 189.927 Recovery = 105.43%						
Sr 421.552†	59739.3	508.68 ug/L	4.837	508.68 ppb	4.837	0.95%
QC value within limits for Sr 421.552 Recovery = 101.74%						
Ti 334.940†	283463.6	487.55 ug/L	0.767	487.55 ppb	0.767	0.16%
QC value within limits for Ti 334.940 Recovery = 97.51%						
Tl 190.801†	1335.1	519.52 ug/L	2.846	519.52 ppb	2.846	0.55%
QC value within limits for Tl 190.801 Recovery = 103.90%						
U 409.014†	16641.1	488.01 ug/L	3.711	488.01 ppb	3.711	0.76%
QC value within limits for U 409.014 Recovery = 97.60%						
V 292.402†	64582.5	504.87 ug/L	0.354	504.87 ppb	0.354	0.07%
QC value within limits for V 292.402 Recovery = 100.97%						
Zn 213.857†	42327.3	498.23 ug/L	0.810	498.23 ppb	0.810	0.16%
QC value within limits for Zn 213.857 Recovery = 99.65%						
SiO2†	129445.3	10328 ug/L	40.9	10328 ppb	40.9	0.40%
QC value within limits for SiO2 Recovery = 96.57%						
All analyte(s) passed QC.						

Sequence No.: 7

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/25/2010 08:16:28

Data Type: Reprocessed on 3/25/2010 09:41:45

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	790407.3	790407.3	94.112 %		08:19:38
1	Sc Radial	4085.3	4085.3	101 %		08:18:21
1	Y 371.029	672726.6	672726.6	93.946 %		08:19:38
1	Y RADIAL	4469.1	4469.1	98.92 %		08:18:21
1	Ag 328.068†	171.1	-71.6	-0.3723 ug/L	-0.3723 ppb	08:19:38
1	Al 396.153Radial†	-77.5	3.1	3.3017 ug/L	3.3017 ppb	08:18:41
1	As 188.979†	-21.4	-1.9	-1.0528 ug/L	-1.0528 ppb	08:19:58
1	B 249.677†	-128.4	113.7	3.1337 ug/L	3.1337 ppb	08:19:58
1	Ba 233.527†	14.7	-2.9	-0.0292 ug/L	-0.0292 ppb	08:19:58
1	Be 313.107†	-4306.4	-313.1	-0.1274 ug/L	-0.1274 ppb	08:19:38
1	Ca 317.933Radial†	20.1	2.7	5.4300 ug/L	5.4300 ppb	08:18:41
1	Cd 226.502†	-179.0	-23.8	-0.3316 ug/L	-0.3316 ppb	08:19:58
1	Co 228.616†	-30.3	6.7	0.1761 ug/L	0.1761 ppb	08:19:58
1	Cr 267.716†	113.5	25.6	0.3303 ug/L	0.3303 ppb	08:19:58
1	Cu 324.752†	6430.7	480.2	1.5584 ug/L	1.5584 ppb	08:19:38
1	Fe 238.204 Radial†	5.1	-4.0	-49.564 ug/L	-49.564 ppb	08:18:41
1	K 766.490 Radial†	2825.1	-13.8	-2.7431 ug/L	-2.7431 ppb	08:18:21
1	Mg 279.077 IEC†	1.3	0.6	27.162 ug/L	27.162 ppb	08:18:41
1	Mn 257.610†	519.0	99.1	0.1240 ug/L	0.1240 ppb	08:19:58
1	Mo 202.031†	19.9	7.0	0.6106 ug/L	0.6106 ppb	08:19:58
1	Na 589.592 Radial†	-530.1	-62.5	-24.563 ug/L	-24.563 ppb	08:18:21
1	Ni 231.604†	74.4	-14.6	-0.4549 ug/L	-0.4549 ppb	08:19:58
1	P 214.914†	187.1	30.5	21.713 ug/L	21.713 ppb	08:19:58
1	Pb 220.353†	-67.1	-12.5	-1.8733 ug/L	-1.8733 ppb	08:19:58
1	S 181.975 Axial†	28.4	5.8	10.227 ug/L	10.227 ppb	08:19:58
1	Sb 206.836†	27.4	2.5	1.1290 ug/L	1.1290 ppb	08:19:58
1	Se 196.026†	-18.2	-2.3	-2.0135 ug/L	-2.0135 ppb	08:19:58
1	Si 251.611†	517.2	24.1	0.8896 ug/L	0.8896 ppb	08:19:58
1	Sn 189.927†	14.0	11.7	2.6045 ug/L	2.6045 ppb	08:19:58
1	Sr 421.552†	37.5	-33.0	-0.2810 ug/L	-0.2810 ppb	08:18:21
1	Ti 334.940†	-1088.6	-73.4	-0.1248 ug/L	-0.1248 ppb	08:19:38
1	Tl 190.801†	-24.7	-1.2	-0.4711 ug/L	-0.4711 ppb	08:19:58
1	U 409.014†	-2143.0	-241.9	-7.1127 ug/L	-7.1127 ppb	08:19:38
1	V 292.402†	-1389.8	-49.2	-0.3767 ug/L	-0.3767 ppb	08:19:38
1	Zn 213.857†	570.5	-0.2	0.0054 ug/L	0.0054 ppb	08:19:58
1	SiO2†	545.1	25.9	2.0515 ug/L	2.0515 ppb	08:20:54
2	Sc 361.383	841118.2	841118.2	100.15 %		08:20:03
2	Sc Radial	4098.1	4098.1	102 %		08:18:46
2	Y 371.029	717854.0	717854.0	100.25 %		08:20:03
2	Y RADIAL	4508.9	4508.9	99.80 %		08:18:46
2	Ag 328.068†	221.7	-32.0	-0.1764 ug/L	-0.1764 ppb	08:20:03
2	Al 396.153Radial†	-75.4	5.4	5.7212 ug/L	5.7212 ppb	08:19:06
2	As 188.979†	-24.6	-3.7	-2.0054 ug/L	-2.0054 ppb	08:20:23
2	B 249.677†	-114.4	135.9	3.7419 ug/L	3.7419 ppb	08:20:23
2	Ba 233.527†	27.1	8.6	0.0792 ug/L	0.0792 ppb	08:20:23
2	Be 313.107†	-4276.6	-7.4	-0.0032 ug/L	-0.0032 ppb	08:20:03
2	Ca 317.933Radial†	19.8	2.3	4.5979 ug/L	4.5979 ppb	08:19:06
2	Cd 226.502†	-159.5	7.2	0.1060 ug/L	0.1060 ppb	08:20:23
2	Co 228.616†	-39.1	-0.1	-0.0013 ug/L	-0.0013 ppb	08:20:23
2	Cr 267.716†	119.8	24.7	0.3154 ug/L	0.3154 ppb	08:20:23
2	Cu 324.752†	6337.5	-24.8	-0.0847 ug/L	-0.0847 ppb	08:20:03
2	Fe 238.204 Radial†	6.0	-3.1	-38.632 ug/L	-38.632 ppb	08:19:06
2	K 766.490 Radial†	2787.7	-59.3	-11.836 ug/L	-11.836 ppb	08:18:46
2	Mg 279.077 IEC†	0.2	-0.6	-24.083 ug/L	-24.083 ppb	08:19:06
2	Mn 257.610†	685.8	232.3	0.3020 ug/L	0.3020 ppb	08:20:23
2	Mo 202.031†	17.5	3.2	0.2819 ug/L	0.2819 ppb	08:20:23
2	Na 589.592 Radial†	-513.1	-44.2	-17.340 ug/L	-17.340 ppb	08:18:46
2	Ni 231.604†	92.7	-1.0	-0.0313 ug/L	-0.0313 ppb	08:20:23

2	P 214.914†	180.2	11.7	8.4942 ug/L	8.4942 ppb	08:20:23
2	Pb 220.353†	-61.2	-2.3	-0.3437 ug/L	-0.3437 ppb	08:20:23
2	S 181.975 Axial†	27.3	2.8	4.9851 ug/L	4.9851 ppb	08:20:23
2	Sb 206.836†	33.5	6.8	2.9086 ug/L	2.9086 ppb	08:20:23
2	Se 196.026†	-20.0	-3.0	-2.4887 ug/L	-2.4887 ppb	08:20:23
2	Si 251.611†	525.2	-1.1	-0.0427 ug/L	-0.0427 ppb	08:20:23
2	Sn 189.927†	7.1	4.0	0.8900 ug/L	0.8900 ppb	08:20:23
2	Sr 421.552†	86.9	15.5	0.1316 ug/L	0.1316 ppb	08:18:46
2	Ti 334.940†	-1128.2	-43.2	-0.0737 ug/L	-0.0737 ppb	08:20:03
2	Tl 190.801†	-26.6	-1.5	-0.5673 ug/L	-0.5673 ppb	08:20:23
2	U 409.014†	-1895.5	142.5	4.1969 ug/L	4.1969 ppb	08:20:03
2	V 292.402†	-1419.6	10.1	0.0948 ug/L	0.0948 ppb	08:20:03
2	Zn 213.857†	616.1	8.8	0.1102 ug/L	0.1102 ppb	08:20:23
2	SiO2†	520.2	-34.0	-2.7225 ug/L	-2.7225 ppb	08:20:59
3	Sc 361.383	829519.0	829519.0	98.769 %		08:20:28
3	Sc Radial	4117.3	4117.3	102 %		08:19:11
3	Y 371.029	708342.3	708342.3	98.920 %		08:20:28
3	Y RADIAL	4472.5	4472.5	98.99 %		08:19:11
3	Ag 328.068†	92.8	-159.5	-0.8146 ug/L	-0.8146 ppb	08:20:28
3	Al 396.153Radial†	-80.7	0.6	0.6253 ug/L	0.6253 ppb	08:19:31
3	As 188.979†	-21.3	-0.8	-0.4168 ug/L	-0.4168 ppb	08:20:48
3	B 249.677†	-143.8	104.5	2.8773 ug/L	2.8773 ppb	08:20:48
3	Ba 233.527†	18.6	0.3	0.0023 ug/L	0.0023 ppb	08:20:48
3	Be 313.107†	-4215.8	-5.7	-0.0027 ug/L	-0.0027 ppb	08:20:28
3	Ca 317.933Radial†	13.6	-3.8	-7.7871 ug/L	-7.7871 ppb	08:19:31
3	Cd 226.502†	-164.1	0.3	0.0070 ug/L	0.0070 ppb	08:20:48
3	Co 228.616†	-38.9	-0.4	-0.0107 ug/L	-0.0107 ppb	08:20:48
3	Cr 267.716†	106.4	12.8	0.1620 ug/L	0.1620 ppb	08:20:48
3	Cu 324.752†	6387.0	113.8	0.3654 ug/L	0.3654 ppb	08:20:28
3	Fe 238.204 Radial†	7.4	-1.8	-22.253 ug/L	-22.253 ppb	08:19:31
3	K 766.490 Radial†	2798.2	-61.8	-12.318 ug/L	-12.318 ppb	08:19:11
3	Mg 279.077 IEC†	2.7	1.9	83.821 ug/L	83.821 ppb	08:19:31
3	Mn 257.610†	712.2	268.6	0.3468 ug/L	0.3468 ppb	08:20:48
3	Mo 202.031†	15.6	1.6	0.1355 ug/L	0.1355 ppb	08:20:48
3	Na 589.592 Radial†	-535.8	-64.1	-25.159 ug/L	-25.159 ppb	08:19:11
3	Ni 231.604†	84.0	-8.5	-0.2657 ug/L	-0.2657 ppb	08:20:48
3	P 214.914†	171.3	5.2	3.6896 ug/L	3.6896 ppb	08:20:48
3	Pb 220.353†	-60.4	-2.3	-0.3440 ug/L	-0.3440 ppb	08:20:48
3	S 181.975 Axial†	28.4	4.4	7.6424 ug/L	7.6424 ppb	08:20:48
3	Sb 206.836†	25.7	-0.6	-0.2250 ug/L	-0.2250 ppb	08:20:48
3	Se 196.026†	-14.2	2.6	2.0180 ug/L	2.0180 ppb	08:20:48
3	Si 251.611†	514.6	-4.4	-0.1658 ug/L	-0.1658 ppb	08:20:48
3	Sn 189.927†	11.4	8.4	1.8702 ug/L	1.8702 ppb	08:20:48
3	Sr 421.552†	53.4	-17.8	-0.1511 ug/L	-0.1511 ppb	08:19:11
3	Ti 334.940†	-1164.3	-95.4	-0.1742 ug/L	-0.1742 ppb	08:20:28
3	Tl 190.801†	-18.9	5.9	2.3009 ug/L	2.3009 ppb	08:20:48
3	U 409.014†	-1857.5	154.5	4.5476 ug/L	4.5476 ppb	08:20:28
3	V 292.402†	-1414.0	-4.1	-0.0160 ug/L	-0.0160 ppb	08:20:28
3	Zn 213.857†	614.0	15.2	0.1852 ug/L	0.1852 ppb	08:20:48
3	SiO2†	522.5	-24.3	-1.9476 ug/L	-1.9476 ppb	08:21:04

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820348.2	97.677 %	3.1637			3.24%
Sc Radial	4100.3	102 %	0.4			0.39%
Y 371.029	699641.0	97.705 %	3.3221			3.40%
Y RADIAL	4483.5	99.24 %	0.489			0.49%
Ag 328.068†	-87.7	-0.4544 ug/L	0.32692	-0.4544 ppb	0.32692	71.94%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.0	3.2161 ug/L	2.54903	3.2161 ppb	2.54903	79.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.1	-1.1583 ug/L	0.79954	-1.1583 ppb	0.79954	69.03%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	118.1	3.2509 ug/L	0.44409	3.2509 ppb	0.44409	13.66%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.0	0.0174 ug/L	0.05575	0.0174 ppb	0.05575	319.65%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-108.7	-0.0444 ug/L	0.07187	-0.0444 ppb	0.07187	161.79%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	0.4	0.7469 ug/L	7.40238	0.7469 ppb	7.40238 991.03%
QC value within limits for Ca 317.933Radial Recovery = Not calculated					
Cd 226.502†	-5.4	-0.0729 ug/L	0.22944	-0.0729 ppb	0.22944 314.90%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	2.0	0.0547 ug/L	0.10521	0.0547 ppb	0.10521 192.38%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	21.0	0.2692 ug/L	0.09313	0.2692 ppb	0.09313 34.59%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	189.8	0.6130 ug/L	0.84911	0.6130 ppb	0.84911 138.51%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-2.9	-36.816 ug/L	13.7461	-36.816 ppb	13.7461 37.34%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-45.0	-8.9659 ug/L	5.39443	-8.9659 ppb	5.39443 60.17%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.7	28.967 ug/L	53.9747	28.967 ppb	53.9747 186.33%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	200.0	0.2576 ug/L	0.11789	0.2576 ppb	0.11789 45.77%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	3.9	0.3427 ug/L	0.24331	0.3427 ppb	0.24331 71.00%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-56.9	-22.354 ug/L	4.3525	-22.354 ppb	4.3525 19.47%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-8.0	-0.2506 ug/L	0.21219	-0.2506 ppb	0.21219 84.66%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	15.8	11.299 ug/L	9.3331	11.299 ppb	9.3331 82.60%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-5.7	-0.8537 ug/L	0.88298	-0.8537 ppb	0.88298 103.43%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	4.3	7.6181 ug/L	2.62088	7.6181 ppb	2.62088 34.40%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	2.9	1.2709 ug/L	1.57162	1.2709 ppb	1.57162 123.67%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-0.9	-0.8281 ug/L	2.47623	-0.8281 ppb	2.47623 299.03%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	6.2	0.2270 ug/L	0.57709	0.2270 ppb	0.57709 254.19%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	8.1	1.7882 ug/L	0.86018	1.7882 ppb	0.86018 48.10%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-11.8	-0.1001 ug/L	0.21098	-0.1001 ppb	0.21098 210.68%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-70.7	-0.1242 ug/L	0.05025	-0.1242 ppb	0.05025 40.46%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	1.1	0.4208 ug/L	1.62893	0.4208 ppb	1.62893 387.08%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	18.4	0.5439 ug/L	6.63313	0.5439 ppb	6.63313 >999.9%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-14.4	-0.0993 ug/L	0.24658	-0.0993 ppb	0.24658 248.34%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	7.9	0.1003 ug/L	0.09034	0.1003 ppb	0.09034 90.10%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	-10.8	-0.8729 ug/L	2.56207	-0.8729 ppb	2.56207 293.52%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/25/2010 08:23:16

Data Type: Reprocessed on 3/25/2010 09:41:46

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	826591.3	826591.3	98.421 %		08:26:26
1	Sc Radial	4083.8	4083.8	101 %		08:25:29
1	Y 371.029	704089.2	704089.2	98.326 %		08:26:26
1	Y RADIAL	4492.1	4492.1	99.43 %		08:25:09
1	Ag 328.068†	1237.8	1004.3	5.0643 ug/L	5.0643 ppb	08:26:26
1	Al 396.153Radial†	142.0	219.9	233.80 ug/L	233.80 ppb	08:25:29
1	As 188.979†	36.5	57.9	31.095 ug/L	31.095 ppb	08:26:46
1	B 249.677†	1658.1	1934.9	53.156 ug/L	53.156 ppb	08:26:26
1	Ba 233.527†	584.7	575.5	5.4105 ug/L	5.4105 ppb	08:26:46
1	Be 313.107†	8113.8	12506.7	5.0891 ug/L	5.0891 ppb	08:26:26
1	Ca 317.933Radial†	129.3	110.6	224.64 ug/L	224.64 ppb	08:25:29
1	Cd 226.502†	183.3	352.6	4.9786 ug/L	4.9786 ppb	08:26:46
1	Co 228.616†	161.1	202.6	5.2870 ug/L	5.2870 ppb	08:26:46
1	Cr 267.716†	498.8	411.9	5.3572 ug/L	5.3572 ppb	08:26:46
1	Cu 324.752†	9495.9	3295.5	10.660 ug/L	10.660 ppb	08:26:26
1	Fe 238.204 Radial†	16.1	6.9	86.363 ug/L	86.363 ppb	08:25:29
1	K 766.490 Radial†	3493.6	647.6	129.08 ug/L	129.08 ppb	08:25:09
1	Mg 279.077 IEC†	8.3	7.5	328.39 ug/L	328.39 ppb	08:25:29
1	Mn 257.610†	8546.9	8231.6	10.795 ug/L	10.795 ppb	08:26:26
1	Mo 202.031†	134.6	122.5	10.782 ug/L	10.782 ppb	08:26:46
1	Na 589.592 Radial†	287.2	744.6	292.42 ug/L	292.42 ppb	08:25:09
1	Ni 231.604†	267.3	178.0	5.5534 ug/L	5.5534 ppb	08:26:46
1	P 214.914†	386.4	224.4	159.26 ug/L	159.26 ppb	08:26:46
1	Pb 220.353†	11.1	70.1	10.627 ug/L	10.627 ppb	08:26:46
1	S 181.975 Axial†	89.4	66.4	116.42 ug/L	116.42 ppb	08:26:46
1	Sb 206.836†	45.6	19.7	8.7750 ug/L	8.7750 ppb	08:26:46
1	Se 196.026†	28.6	46.0	37.067 ug/L	37.067 ppb	08:26:46
1	Si 251.611†	3151.9	2677.0	99.542 ug/L	99.542 ppb	08:26:46
1	Sn 189.927†	54.3	52.0	11.563 ug/L	11.563 ppb	08:26:46
1	Sr 421.552†	611.9	534.4	4.5492 ug/L	4.5492 ppb	08:25:09
1	Ti 334.940†	1796.7	2908.9	4.9818 ug/L	4.9818 ppb	08:26:26
1	Tl 190.801†	22.0	47.5	18.406 ug/L	18.406 ppb	08:26:46
1	U 409.014†	-149.1	1883.7	55.405 ug/L	55.405 ppb	08:26:26
1	V 292.402†	-682.7	733.8	5.9020 ug/L	5.9020 ppb	08:26:26
1	Zn 213.857†	1588.8	1007.8	11.910 ug/L	11.910 ppb	08:26:46
1	SiO2†	3354.8	2855.3	227.83 ug/L	227.83 ppb	08:27:42
2	Sc 361.383	843989.6	843989.6	100.49 %		08:26:51
2	Sc Radial	4077.7	4077.7	101 %		08:25:54
2	Y 371.029	720812.2	720812.2	100.66 %		08:26:51
2	Y RADIAL	4503.9	4503.9	99.69 %		08:25:34
2	Ag 328.068†	1216.8	957.4	4.8345 ug/L	4.8345 ppb	08:26:51
2	Al 396.153Radial†	128.8	207.0	220.15 ug/L	220.15 ppb	08:25:54
2	As 188.979†	33.2	53.9	28.929 ug/L	28.929 ppb	08:27:11
2	B 249.677†	1632.7	1874.8	51.503 ug/L	51.503 ppb	08:26:51
2	Ba 233.527†	567.8	546.5	5.1377 ug/L	5.1377 ppb	08:27:11
2	Be 313.107†	8455.7	12677.0	5.1586 ug/L	5.1586 ppb	08:26:51
2	Ca 317.933Radial†	124.1	105.6	214.51 ug/L	214.51 ppb	08:25:54
2	Cd 226.502†	205.4	370.8	5.2324 ug/L	5.2324 ppb	08:27:11
2	Co 228.616†	162.5	200.6	5.2316 ug/L	5.2316 ppb	08:27:11
2	Cr 267.716†	493.2	395.8	5.1505 ug/L	5.1505 ppb	08:27:11
2	Cu 324.752†	9723.9	3323.5	10.753 ug/L	10.753 ppb	08:26:51
2	Fe 238.204 Radial†	17.5	8.3	104.33 ug/L	104.33 ppb	08:25:54
2	K 766.490 Radial†	3613.2	771.1	153.75 ug/L	153.75 ppb	08:25:34
2	Mg 279.077 IEC†	9.0	8.2	360.01 ug/L	360.01 ppb	08:25:54
2	Mn 257.610†	8853.5	8357.7	10.961 ug/L	10.961 ppb	08:26:51
2	Mo 202.031†	127.6	112.8	9.9272 ug/L	9.9272 ppb	08:27:11
2	Na 589.592 Radial†	237.5	695.8	273.25 ug/L	273.25 ppb	08:25:34
2	Ni 231.604†	272.0	177.1	5.5256 ug/L	5.5256 ppb	08:27:11

2	P 214.914†	387.6	217.4	154.23 ug/L	154.23 ppb	08:27:11
2	Pb 220.353†	4.9	63.7	9.6539 ug/L	9.6539 ppb	08:27:11
2	S 181.975 Axial†	85.8	61.0	106.83 ug/L	106.83 ppb	08:27:11
2	Sb 206.836†	55.7	28.8	12.616 ug/L	12.616 ppb	08:27:11
2	Se 196.026†	14.8	31.6	25.644 ug/L	25.644 ppb	08:27:11
2	Si 251.611†	3105.2	2564.6	95.364 ug/L	95.364 ppb	08:27:11
2	Sn 189.927†	52.9	49.5	11.005 ug/L	11.005 ppb	08:27:11
2	Sr 421.552†	608.3	531.7	4.5264 ug/L	4.5264 ppb	08:25:34
2	Ti 334.940†	1927.8	3001.7	5.1391 ug/L	5.1391 ppb	08:26:51
2	Tl 190.801†	26.9	51.9	20.124 ug/L	20.124 ppb	08:27:11
2	U 409.014†	-263.9	1772.6	52.133 ug/L	52.133 ppb	08:26:51
2	V 292.402†	-760.9	670.3	5.3920 ug/L	5.3920 ppb	08:26:51
2	Zn 213.857†	1593.0	978.8	11.563 ug/L	11.563 ppb	08:27:11
2	SiO2†	3254.6	2685.3	214.27 ug/L	214.27 ppb	08:27:47
3	Sc 361.383	821797.4	821797.4	97.850 %		08:27:17
3	Sc Radial	4060.7	4060.7	101 %		08:26:19
3	Y 371.029	700918.2	700918.2	97.883 %		08:27:17
3	Y RADIAL	4461.2	4461.2	98.74 %		08:25:59
3	Ag 328.068†	1158.2	930.2	4.6763 ug/L	4.6763 ppb	08:27:17
3	Al 396.153Radial†	124.0	202.9	215.75 ug/L	215.75 ppb	08:26:19
3	As 188.979†	31.7	53.2	28.563 ug/L	28.563 ppb	08:27:37
3	B 249.677†	1551.8	1836.1	50.446 ug/L	50.446 ppb	08:27:17
3	Ba 233.527†	564.1	558.0	5.2415 ug/L	5.2415 ppb	08:27:37
3	Be 313.107†	8184.9	12627.4	5.1382 ug/L	5.1382 ppb	08:27:17
3	Ca 317.933Radial†	128.6	110.6	224.68 ug/L	224.68 ppb	08:26:19
3	Cd 226.502†	205.8	376.7	5.3210 ug/L	5.3210 ppb	08:27:37
3	Co 228.616†	154.1	196.4	5.1221 ug/L	5.1221 ppb	08:27:37
3	Cr 267.716†	503.6	419.7	5.4548 ug/L	5.4548 ppb	08:27:37
3	Cu 324.752†	9498.3	3354.2	10.849 ug/L	10.849 ppb	08:27:17
3	Fe 238.204 Radial†	13.6	4.5	56.847 ug/L	56.847 ppb	08:26:19
3	K 766.490 Radial†	3627.6	800.3	159.57 ug/L	159.57 ppb	08:25:59
3	Mg 279.077 IEC†	9.5	8.7	381.64 ug/L	381.64 ppb	08:26:19
3	Mn 257.610†	8517.2	8251.9	10.817 ug/L	10.817 ppb	08:27:17
3	Mo 202.031†	120.8	109.3	9.6162 ug/L	9.6162 ppb	08:27:37
3	Na 589.592 Radial†	232.9	692.2	271.84 ug/L	271.84 ppb	08:25:59
3	Ni 231.604†	261.8	174.0	5.4295 ug/L	5.4295 ppb	08:27:37
3	P 214.914†	381.5	221.7	157.29 ug/L	157.29 ppb	08:27:37
3	Pb 220.353†	17.2	76.4	11.584 ug/L	11.584 ppb	08:27:37
3	S 181.975 Axial†	91.3	69.0	120.85 ug/L	120.85 ppb	08:27:37
3	Sb 206.836†	47.9	22.4	9.8400 ug/L	9.8400 ppb	08:27:37
3	Se 196.026†	24.8	42.3	33.989 ug/L	33.989 ppb	08:27:37
3	Si 251.611†	3145.0	2688.6	99.988 ug/L	99.988 ppb	08:27:37
3	Sn 189.927†	44.5	42.4	9.4196 ug/L	9.4196 ppb	08:27:37
3	Sr 421.552†	628.9	554.7	4.7217 ug/L	4.7217 ppb	08:25:59
3	Ti 334.940†	1804.1	2927.1	5.0089 ug/L	5.0089 ppb	08:27:17
3	Tl 190.801†	26.5	52.2	20.234 ug/L	20.234 ppb	08:27:37
3	U 409.014†	-157.1	1874.7	55.142 ug/L	55.142 ppb	08:27:17
3	V 292.402†	-863.1	545.4	4.4378 ug/L	4.4378 ppb	08:27:17
3	Zn 213.857†	1592.8	1021.4	12.076 ug/L	12.076 ppb	08:27:37
3	SiO2†	3297.8	2816.9	224.80 ug/L	224.80 ppb	08:27:52

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830792.8	98.921 %		1.3904			1.41%
Sc Radial	4074.1	101 %		0.3			0.29%
Y 371.029	708606.5	98.957 %		1.4927			1.51%
Y RADIAL	4485.7	99.29 %		0.489			0.49%
Ag 328.068†	964.0	4.8584 ug/L		0.19512	4.8584 ppb	0.19512	4.02%
QC value within limits for Ag 328.068 Recovery = 97.17%							
Al 396.153Radial†	209.9	223.23 ug/L		9.413	223.23 ppb	9.413	4.22%
QC value within limits for Al 396.153Radial Recovery = 111.62%							
As 188.979†	55.0	29.529 ug/L		1.3688	29.529 ppb	1.3688	4.64%
QC value within limits for As 188.979 Recovery = 98.43%							
B 249.677†	1881.9	51.702 ug/L		1.3663	51.702 ppb	1.3663	2.64%
QC value within limits for B 249.677 Recovery = 103.40%							
Ba 233.527†	560.0	5.2632 ug/L		0.13771	5.2632 ppb	0.13771	2.62%
QC value within limits for Ba 233.527 Recovery = 105.26%							
Be 313.107†	12603.7	5.1286 ug/L		0.03571	5.1286 ppb	0.03571	0.70%
QC value within limits for Be 313.107 Recovery = 102.57%							

Ca 317.933Radial†	108.9	221.27 ug/L	5.862	221.27 ppb	5.862	2.65%
QC value within limits for Ca 317.933Radial Recovery = 110.64%						
Cd 226.502†	366.7	5.1773 ug/L	0.17772	5.1773 ppb	0.17772	3.43%
QC value within limits for Cd 226.502 Recovery = 103.55%						
Co 228.616†	199.9	5.2136 ug/L	0.08388	5.2136 ppb	0.08388	1.61%
QC value within limits for Co 228.616 Recovery = 104.27%						
Cr 267.716†	409.1	5.3208 ug/L	0.15539	5.3208 ppb	0.15539	2.92%
QC value within limits for Cr 267.716 Recovery = 106.42%						
Cu 324.752†	3324.4	10.754 ug/L	0.0945	10.754 ppb	0.0945	0.88%
QC value within limits for Cu 324.752 Recovery = 107.54%						
Fe 238.204 Radial†	6.6	82.514 ug/L	23.9757	82.514 ppb	23.9757	29.06%
QC value within limits for Fe 238.204 Radial Recovery = 82.51%						
K 766.490 Radial†	739.7	147.46 ug/L	16.187	147.46 ppb	16.187	10.98%
QC value within limits for K 766.490 Radial Recovery = 98.31%						
Mg 279.077 IEC†	8.2	356.68 ug/L	26.784	356.68 ppb	26.784	7.51%
QC value within limits for Mg 279.077 IEC Recovery = 118.89%						
Mn 257.610†	8280.4	10.858 ug/L	0.0902	10.858 ppb	0.0902	0.83%
QC value within limits for Mn 257.610 Recovery = 108.58%						
Mo 202.031†	114.9	10.109 ug/L	0.6038	10.109 ppb	0.6038	5.97%
QC value within limits for Mo 202.031 Recovery = 101.09%						
Na 589.592 Radial†	710.9	279.17 ug/L	11.495	279.17 ppb	11.495	4.12%
QC value within limits for Na 589.592 Radial Recovery = 93.06%						
Ni 231.604†	176.3	5.5028 ug/L	0.06498	5.5028 ppb	0.06498	1.18%
QC value within limits for Ni 231.604 Recovery = 110.06%						
P 214.914†	221.2	156.93 ug/L	2.535	156.93 ppb	2.535	1.62%
QC value within limits for P 214.914 Recovery = 104.62%						
Pb 220.353†	70.1	10.622 ug/L	0.9648	10.622 ppb	0.9648	9.08%
QC value within limits for Pb 220.353 Recovery = 106.22%						
S 181.975 Axial†	65.5	114.70 ug/L	7.165	114.70 ppb	7.165	6.25%
QC value within limits for S 181.975 Axial Recovery = 114.70%						
Sb 206.836†	23.6	10.410 ug/L	1.9829	10.410 ppb	1.9829	19.05%
QC value within limits for Sb 206.836 Recovery = 104.10%						
Se 196.026†	40.0	32.233 ug/L	5.9104	32.233 ppb	5.9104	18.34%
QC value within limits for Se 196.026 Recovery = 107.44%						
Si 251.611†	2643.4	98.298 ug/L	2.5503	98.298 ppb	2.5503	2.59%
QC value within limits for Si 251.611 Recovery = 98.30%						
Sn 189.927†	48.0	10.662 ug/L	1.1118	10.662 ppb	1.1118	10.43%
QC value within limits for Sn 189.927 Recovery = 106.62%						
Sr 421.552†	540.3	4.5991 ug/L	0.10680	4.5991 ppb	0.10680	2.32%
QC value within limits for Sr 421.552 Recovery = 91.98%						
Ti 334.940†	2945.9	5.0433 ug/L	0.08408	5.0433 ppb	0.08408	1.67%
QC value within limits for Ti 334.940 Recovery = 100.87%						
Tl 190.801†	50.5	19.588 ug/L	1.0253	19.588 ppb	1.0253	5.23%
QC value within limits for Tl 190.801 Recovery = 97.94%						
U 409.014†	1843.6	54.227 ug/L	1.8176	54.227 ppb	1.8176	3.35%
QC value within limits for U 409.014 Recovery = 108.45%						
V 292.402†	649.9	5.2439 ug/L	0.74321	5.2439 ppb	0.74321	14.17%
QC value within limits for V 292.402 Recovery = 104.88%						
Zn 213.857†	1002.7	11.850 ug/L	0.2620	11.850 ppb	0.2620	2.21%
QC value within limits for Zn 213.857 Recovery = 118.50%						
SiO2†	2785.8	222.30 ug/L	7.114	222.30 ppb	7.114	3.20%
QC value within limits for SiO2 Recovery = 104.37%						
All analyte(s) passed QC.						

Sequence No.: 9

Sample ID: ICSA

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/25/2010 08:30:04

Data Type: Reprocessed on 3/25/2010 09:41:47

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	707696.0	707696.0	84.264 %			08:33:14
1	Sc Radial	3753.1	3753.1	93.0 %			08:32:17
1	Y 371.029	589906.4	589906.4	82.381 %			08:33:14
1	Y RADIAL	4073.2	4073.2	90.15 %			08:32:17
1	Ag 328.068†	-8912.7	-10830.5	-4.1156 ug/L		-4.1156 ppb	08:33:14
1	Al 396.153Radial†	455601.1	489757.3	521960 ug/L		521960 ppb	08:31:57
1	As 188.979†	-62.6	-53.5	14.358 ug/L		14.358 ppb	08:33:34
1	B 249.677†	263.9	563.3	-14.460 ug/L		-14.460 ppb	08:33:14
1	Ba 233.527†	-536.4	-655.1	-0.5012 ug/L		-0.5012 ppb	08:33:34
1	Be 313.107†	-4506.7	-1085.6	-0.4961 ug/L		-0.4961 ppb	08:33:14
1	Ca 317.933Radial†	220929.8	237437.0	482410 ug/L		482410 ppb	08:31:57
1	Cd 226.502†	1030.2	1389.0	0.5556 ug/L		0.5556 ppb	08:33:34
1	Co 228.616†	19.2	61.6	-1.0498 ug/L		-1.0498 ppb	08:33:34
1	Cr 267.716†	-1281.9	-1616.3	-1.5033 ug/L		-1.5033 ppb	08:33:34
1	Cu 324.752†	3398.9	-2319.2	2.2207 ug/L		2.2207 ppb	08:33:14
1	Fe 238.204 Radial†	13726.1	14743.7	184360 ug/L		184360 ppb	08:32:17
1	K 766.490 Radial†	2382.7	-242.3	-209.78 ug/L		-209.78 ppb	08:31:57
1	Mg 279.077 IEC†	10343.0	11115.9	485390 ug/L		485390 ppb	08:32:17
1	Mn 257.610†	-816.6	-1421.5	-3.5103 ug/L		-3.5103 ppb	08:33:14
1	Mo 202.031†	-189.3	-238.9	-0.9493 ug/L		-0.9493 ppb	08:33:34
1	Na 589.592 Radial†	-88.5	365.7	143.63 ug/L		143.63 ppb	08:32:17
1	Ni 231.604†	177.7	117.2	3.6595 ug/L		3.6595 ppb	08:33:34
1	P 214.914†	159.7	21.4	-2.2902 ug/L		-2.2902 ppb	08:33:34
1	Pb 220.353†	-662.3	-727.2	-13.675 ug/L		-13.675 ppb	08:33:34
1	S 181.975 Axial†	36.9	19.5	-63.706 ug/L		-63.706 ppb	08:33:34
1	Sb 206.836†	49.0	31.5	-4.3685 ug/L		-4.3685 ppb	08:33:34
1	Se 196.026†	-821.2	-957.6	-17.279 ug/L		-17.279 ppb	08:33:34
1	Si 251.611†	433.5	-10.9	-0.1488 ug/L		-0.1488 ppb	08:33:34
1	Sn 189.927†	-315.6	-377.7	-8.5258 ug/L		-8.5258 ppb	08:33:34
1	Sr 421.552†	418.8	380.1	-0.3651 ug/L		-0.3651 ppb	08:32:17
1	Ti 334.940†	-12845.8	-14161.4	0.6710 ug/L		0.6710 ppb	08:33:14
1	Tl 190.801†	-67.0	-54.5	-21.310 ug/L		-21.310 ppb	08:33:34
1	U 409.014†	-796.6	1089.8	11.096 ug/L		11.096 ppb	08:33:14
1	V 292.402†	330.5	1819.7	-3.6472 ug/L		-3.6472 ppb	08:33:34
1	Zn 213.857†	2633.3	2518.6	2.3177 ug/L		2.3177 ppb	08:33:34
1	SiO2†	557.1	107.7	9.1800 ug/L		9.1800 ppb	08:34:31
2	Sc 361.383	714756.1	714756.1	85.105 %			08:33:40
2	Sc Radial	3804.1	3804.1	94.3 %			08:32:42
2	Y 371.029	595723.2	595723.2	83.193 %			08:33:40
2	Y RADIAL	4134.7	4134.7	91.52 %			08:32:42
2	Ag 328.068†	-8924.4	-10739.8	-4.2222 ug/L		-4.2222 ppb	08:33:40
2	Al 396.153Radial†	448737.6	475911.1	507210 ug/L		507210 ppb	08:32:22
2	As 188.979†	-68.6	-59.8	10.430 ug/L		10.430 ppb	08:34:00
2	B 249.677†	386.0	703.7	-10.206 ug/L		-10.206 ppb	08:33:40
2	Ba 233.527†	-533.4	-645.3	-0.4834 ug/L		-0.4834 ppb	08:34:00
2	Be 313.107†	-4542.5	-1074.8	-0.4899 ug/L		-0.4899 ppb	08:33:40
2	Ca 317.933Radial†	217322.3	230426.6	468170 ug/L		468170 ppb	08:32:22
2	Cd 226.502†	1040.9	1389.5	0.8138 ug/L		0.8138 ppb	08:34:00
2	Co 228.616†	11.0	51.9	-1.2697 ug/L		-1.2697 ppb	08:34:00
2	Cr 267.716†	-1297.6	-1619.6	-1.8072 ug/L		-1.8072 ppb	08:34:00
2	Cu 324.752†	3504.0	-2235.4	2.3596 ug/L		2.3596 ppb	08:33:40
2	Fe 238.204 Radial†	13729.5	14549.4	181940 ug/L		181940 ppb	08:32:42
2	K 766.490 Radial†	2512.3	-139.3	-184.44 ug/L		-184.44 ppb	08:32:22
2	Mg 279.077 IEC†	10344.2	10968.0	478940 ug/L		478940 ppb	08:32:42
2	Mn 257.610†	-957.2	-1577.1	-3.6903 ug/L		-3.6903 ppb	08:33:40
2	Mo 202.031†	-184.9	-231.4	-0.6508 ug/L		-0.6508 ppb	08:34:00
2	Na 589.592 Radial†	-121.0	332.5	130.60 ug/L		130.60 ppb	08:32:42
2	Ni 231.604†	149.0	81.5	2.5433 ug/L		2.5433 ppb	08:34:00

2	P 214.914†	158.1	17.6	-6.7776 ug/L	-6.7776 ppb	08:34:00
2	Pb 220.353†	-674.8	-734.1	-17.837 ug/L	-17.837 ppb	08:34:00
2	S 181.975 Axial†	47.8	31.8	-39.291 ug/L	-39.291 ppb	08:34:00
2	Sb 206.836†	52.4	35.0	-2.4608 ug/L	-2.4608 ppb	08:34:00
2	Se 196.026†	-823.9	-951.2	-25.025 ug/L	-25.025 ppb	08:34:00
2	Si 251.611†	401.0	-54.3	-1.7698 ug/L	-1.7698 ppb	08:34:00
2	Sn 189.927†	-326.2	-386.4	-12.851 ug/L	-12.851 ppb	08:34:00
2	Sr 421.552†	438.9	395.4	-0.1289 ug/L	-0.1289 ppb	08:32:42
2	Ti 334.940†	-12588.1	-13708.0	0.0650 ug/L	0.0650 ppb	08:33:40
2	Tl 190.801†	-67.8	-54.5	-21.325 ug/L	-21.325 ppb	08:34:00
2	U 409.014†	-592.5	1338.9	18.703 ug/L	18.703 ppb	08:33:40
2	V 292.402†	320.5	1804.1	-3.5155 ug/L	-3.5155 ppb	08:34:00
2	Zn 213.857†	2633.7	2488.2	2.3265 ug/L	2.3265 ppb	08:34:00
2	SiO2†	390.5	-94.6	-7.0021 ug/L	-7.0021 ppb	08:34:36
3	Sc 361.383	718206.8	718206.8	85.516 %		08:34:05
3	Sc Radial	3716.1	3716.1	92.1 %		08:33:08
3	Y 371.029	599800.3	599800.3	83.762 %		08:34:05
3	Y RADIAL	4026.8	4026.8	89.13 %		08:33:08
3	Ag 328.068†	-8750.4	-10485.9	-1.7967 ug/L	-1.7967 ppb	08:34:05
3	Al 396.153Radial†	454483.4	493428.6	525880 ug/L	525880 ppb	08:32:48
3	As 188.979†	-69.4	-60.3	11.167 ug/L	11.167 ppb	08:34:25
3	B 249.677†	175.8	455.8	-17.734 ug/L	-17.734 ppb	08:34:05
3	Ba 233.527†	-510.9	-616.0	-0.0760 ug/L	-0.0760 ppb	08:34:25
3	Be 313.107†	-4449.2	-940.1	-0.4338 ug/L	-0.4338 ppb	08:34:05
3	Ca 317.933Radial†	219506.8	238260.9	484090 ug/L	484090 ppb	08:32:48
3	Cd 226.502†	1083.8	1433.8	0.9837 ug/L	0.9837 ppb	08:34:25
3	Co 228.616†	13.0	54.1	-1.2866 ug/L	-1.2866 ppb	08:34:25
3	Cr 267.716†	-1257.6	-1565.5	-0.6353 ug/L	-0.6353 ppb	08:34:25
3	Cu 324.752†	3439.7	-2330.4	2.2881 ug/L	2.2881 ppb	08:34:05
3	Fe 238.204 Radial†	13734.9	14900.4	186320 ug/L	186320 ppb	08:33:08
3	K 766.490 Radial†	2358.7	-242.9	-210.45 ug/L	-210.45 ppb	08:32:48
3	Mg 279.077 IEC†	10357.7	11242.7	490930 ug/L	490930 ppb	08:33:08
3	Mn 257.610†	-898.5	-1503.1	-3.6504 ug/L	-3.6504 ppb	08:34:05
3	Mo 202.031†	-225.8	-278.3	-4.2410 ug/L	-4.2410 ppb	08:34:25
3	Na 589.592 Radial†	-58.3	397.6	156.14 ug/L	156.14 ppb	08:33:08
3	Ni 231.604†	162.8	96.8	3.0218 ug/L	3.0218 ppb	08:34:25
3	P 214.914†	159.0	17.7	-5.5359 ug/L	-5.5359 ppb	08:34:25
3	Pb 220.353†	-672.9	-728.0	-13.198 ug/L	-13.198 ppb	08:34:25
3	S 181.975 Axial†	44.1	27.2	-50.803 ug/L	-50.803 ppb	08:34:25
3	Sb 206.836†	36.8	16.4	-11.023 ug/L	-11.023 ppb	08:34:25
3	Se 196.026†	-835.6	-960.1	-12.044 ug/L	-12.044 ppb	08:34:25
3	Si 251.611†	412.3	-43.3	-1.3118 ug/L	-1.3118 ppb	08:34:25
3	Sn 189.927†	-328.3	-387.0	-10.417 ug/L	-10.417 ppb	08:34:25
3	Sr 421.552†	443.5	411.4	-0.1117 ug/L	-0.1117 ppb	08:33:08
3	Ti 334.940†	-12329.2	-13334.2	1.8662 ug/L	1.8662 ppb	08:34:05
3	Tl 190.801†	-76.6	-64.5	-25.163 ug/L	-25.163 ppb	08:34:25
3	U 409.014†	-818.9	1077.5	10.510 ug/L	10.510 ppb	08:34:05
3	V 292.402†	275.1	1749.2	-4.4206 ug/L	-4.4206 ppb	08:34:25
3	Zn 213.857†	2658.4	2502.3	1.8341 ug/L	1.8341 ppb	08:34:25
3	SiO2†	405.7	-79.0	-5.6448 ug/L	-5.6448 ppb	08:34:41

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	713553.0	84.961 %	0.6379			0.75%
Sc Radial	3757.8	93.2 %	1.10			1.18%
Y 371.029	595143.3	83.112 %	0.6944			0.84%
Y RADIAL	4078.2	90.27 %	1.199			1.33%
Ag 328.068†	-10685.4	-3.3782 ug/L	1.37061	-3.3782 ppb	1.37061	40.57%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	486365.7	518350 ug/L	9845.7	518350 ppb	9845.7	1.90%
QC value within limits for Al 396.153Radial Recovery = 103.67%						
As 188.979†	-57.8	11.985 ug/L	2.0881	11.985 ppb	2.0881	17.42%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	574.3	-14.133 ug/L	3.7749	-14.133 ppb	3.7749	26.71%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-638.8	-0.3536 ug/L	0.24052	-0.3536 ppb	0.24052	68.03%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1033.5	-0.4733 ug/L	0.03435	-0.4733 ppb	0.03435	7.26%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	235374.9	478220 ug/L	8746.8	478220 ppb	8746.8	1.83%
QC value within limits for Ca 317.933Radial Recovery = 95.64%						
Cd 226.502†	1404.1	0.7843 ug/L	0.21554	0.7843 ppb	0.21554	27.48%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	55.9	-1.2020 ug/L	0.13207	-1.2020 ppb	0.13207	10.99%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1600.5	-1.3153 ug/L	0.60814	-1.3153 ppb	0.60814	46.24%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2295.0	2.2895 ug/L	0.06944	2.2895 ppb	0.06944	3.03%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	14731.2	184210 ug/L	2198.7	184210 ppb	2198.7	1.19%
QC value within limits for Fe 238.204 Radial Recovery = 92.10%						
K 766.490 Radial†	-208.2	-201.56 ug/L	14.827	-201.56 ppb	14.827	7.36%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	11108.9	485090 ug/L	6003.0	485090 ppb	6003.0	1.24%
QC value within limits for Mg 279.077 IEC Recovery = 97.02%						
Mn 257.610†	-1500.6	-3.6170 ug/L	0.09450	-3.6170 ppb	0.09450	2.61%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-249.5	-1.9470 ug/L	1.99223	-1.9470 ppb	1.99223	102.32%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	365.3	143.46 ug/L	12.774	143.46 ppb	12.774	8.90%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	98.5	3.0749 ug/L	0.55994	3.0749 ppb	0.55994	18.21%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	18.9	-4.8679 ug/L	2.31708	-4.8679 ppb	2.31708	47.60%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-729.8	-14.903 ug/L	2.5520	-14.903 ppb	2.5520	17.12%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	26.2	-51.267 ug/L	12.2141	-51.267 ppb	12.2141	23.82%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	27.6	-5.9509 ug/L	4.49522	-5.9509 ppb	4.49522	75.54%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-956.3	-18.116 ug/L	6.5308	-18.116 ppb	6.5308	36.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-36.2	-1.0768 ug/L	0.83565	-1.0768 ppb	0.83565	77.61%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-383.7	-10.598 ug/L	2.1685	-10.598 ppb	2.1685	20.46%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	395.6	-0.2019 ug/L	0.14157	-0.2019 ppb	0.14157	70.12%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-13734.5	0.8674 ug/L	0.91650	0.8674 ppb	0.91650	105.66%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-57.8	-22.599 ug/L	2.2199	-22.599 ppb	2.2199	9.82%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1168.7	13.436 ug/L	4.5709	13.436 ppb	4.5709	34.02%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	1791.0	-3.8611 ug/L	0.48896	-3.8611 ppb	0.48896	12.66%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2503.0	2.1594 ug/L	0.28177	2.1594 ppb	0.28177	13.05%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-21.9	-1.1556 ug/L	8.97661	-1.1556 ppb	8.97661	776.77%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/25/2010 08:36:52
 Data Type: Reprocessed on 3/25/2010 09:41:48

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	731947.1	731947.1	87.152 %		08:40:03
1	Sc Radial	3686.7	3686.7	91.4 %		08:39:05
1	Y 371.029	608253.7	608253.7	84.943 %		08:40:03
1	Y RADIAL	4011.7	4011.7	88.79 %		08:39:05
1	Ag 328.068†	38604.6	44042.6	273.97 ug/L	273.97 ppb	08:40:03
1	Al 396.153Radial†	451258.7	493832.2	526280 ug/L	526280 ppb	08:38:44
1	As 188.979†	785.8	922.5	540.67 ug/L	540.67 ppb	08:40:23
1	B 249.677†	16965.2	19716.5	510.79 ug/L	510.79 ppb	08:40:03
1	Ba 233.527†	45857.1	52599.1	499.83 ug/L	499.83 ppb	08:40:03
1	Be 313.107†	531262.2	613847.0	250.34 ug/L	250.34 ppb	08:40:03
1	Ca 317.933Radial†	217204.1	237640.5	482830 ug/L	482830 ppb	08:38:44
1	Cd 226.502†	30418.6	35069.6	476.04 ug/L	476.04 ppb	08:40:23
1	Co 228.616†	15580.1	17916.0	463.77 ug/L	463.77 ppb	08:40:23
1	Cr 267.716†	31475.2	36020.5	488.95 ug/L	488.95 ppb	08:40:03
1	Cu 324.752†	153032.6	169240.9	558.20 ug/L	558.20 ppb	08:40:03
1	Fe 238.204 Radial†	13436.2	14692.5	183740 ug/L	183740 ppb	08:39:05
1	K 766.490 Radial†	26780.1	26498.7	5125.7 ug/L	5125.7 ppb	08:38:44
1	Mg 279.077 IEC†	10232.0	11194.8	488850 ug/L	488850 ppb	08:39:05
1	Mn 257.610†	324387.0	371757.8	485.92 ug/L	485.92 ppb	08:40:03
1	Mo 202.031†	4774.1	5463.7	500.36 ug/L	500.36 ppb	08:40:23
1	Na 589.592 Radial†	11878.6	13458.1	5285.2 ug/L	5285.2 ppb	08:39:05
1	Ni 231.604†	13130.4	14972.5	467.24 ug/L	467.24 ppb	08:40:23
1	P 214.914†	3322.0	3643.6	2497.1 ug/L	2497.1 ppb	08:40:23
1	Pb 220.353†	2024.7	2382.0	457.06 ug/L	457.06 ppb	08:40:23
1	S 181.975 Axial†	1389.0	1569.4	2652.3 ug/L	2652.3 ppb	08:40:23
1	Sb 206.836†	1194.0	1343.4	571.06 ug/L	571.06 ppb	08:40:23
1	Se 196.026†	2072.2	2394.7	2655.6 ug/L	2655.6 ppb	08:40:23
1	Si 251.611†	124966.7	142864.7	5313.4 ug/L	5313.4 ppb	08:40:03
1	Sn 189.927†	1636.0	1874.0	490.29 ug/L	490.29 ppb	08:40:23
1	Sr 421.552†	52392.6	57256.2	483.96 ug/L	483.96 ppb	08:38:44
1	Ti 334.940†	247324.4	284869.9	514.53 ug/L	514.53 ppb	08:40:03
1	Tl 190.801†	986.7	1157.2	450.80 ug/L	450.80 ppb	08:40:23
1	U 409.014†	13890.4	17973.3	506.86 ug/L	506.86 ppb	08:40:03
1	V 292.402†	57579.1	67495.3	510.11 ug/L	510.11 ppb	08:40:03
1	Zn 213.857†	39794.3	45054.6	504.03 ug/L	504.03 ppb	08:40:03
1	SiO2†	125037.6	142918.1	11405 ug/L	11405 ppb	08:41:20
2	Sc 361.383	726270.1	726270.1	86.476 %		08:40:29
2	Sc Radial	3712.5	3712.5	92.0 %		08:39:30
2	Y 371.029	605012.0	605012.0	84.490 %		08:40:29
2	Y RADIAL	4050.3	4050.3	89.65 %		08:39:30
2	Ag 328.068†	38325.1	44065.5	273.90 ug/L	273.90 ppb	08:40:29
2	Al 396.153Radial†	452648.0	491907.7	524230 ug/L	524230 ppb	08:39:10
2	As 188.979†	772.0	913.6	535.72 ug/L	535.72 ppb	08:40:49
2	B 249.677†	16808.9	19687.9	510.12 ug/L	510.12 ppb	08:40:29
2	Ba 233.527†	45343.2	52416.1	498.09 ug/L	498.09 ppb	08:40:29
2	Be 313.107†	525880.1	612388.0	249.74 ug/L	249.74 ppb	08:40:29
2	Ca 317.933Radial†	217159.2	235938.7	479370 ug/L	479370 ppb	08:39:10
2	Cd 226.502†	30255.0	35153.1	477.29 ug/L	477.29 ppb	08:40:49
2	Co 228.616†	15533.4	18001.6	466.01 ug/L	466.01 ppb	08:40:49
2	Cr 267.716†	31159.2	35937.4	487.79 ug/L	487.79 ppb	08:40:29
2	Cu 324.752†	151880.2	169280.8	558.29 ug/L	558.29 ppb	08:40:29
2	Fe 238.204 Radial†	13472.9	14630.1	182960 ug/L	182960 ppb	08:39:30
2	K 766.490 Radial†	26782.6	26297.5	5086.7 ug/L	5086.7 ppb	08:39:10
2	Mg 279.077 IEC†	10249.7	11136.1	486290 ug/L	486290 ppb	08:39:30
2	Mn 257.610†	321017.8	370771.1	484.65 ug/L	484.65 ppb	08:40:29
2	Mo 202.031†	4738.4	5465.2	500.39 ug/L	500.39 ppb	08:40:49
2	Na 589.592 Radial†	11844.4	13330.5	5235.1 ug/L	5235.1 ppb	08:39:30
2	Ni 231.604†	13090.2	15043.8	469.46 ug/L	469.46 ppb	08:40:49

2	P 214.914†	3342.8	3697.3	2535.9 ug/L	2535.9 ppb	08:40:49
2	Pb 220.353†	2071.4	2454.2	467.55 ug/L	467.55 ppb	08:40:49
2	S 181.975 Axial†	1379.2	1570.5	2654.6 ug/L	2654.6 ppb	08:40:49
2	Sb 206.836†	1214.6	1377.9	585.94 ug/L	585.94 ppb	08:40:49
2	Se 196.026†	2040.9	2377.1	2638.4 ug/L	2638.4 ppb	08:40:49
2	Si 251.611†	123593.1	142397.0	5296.0 ug/L	5296.0 ppb	08:40:29
2	Sn 189.927†	1659.8	1916.3	499.07 ug/L	499.07 ppb	08:40:49
2	Sr 421.552†	52401.1	56866.8	480.67 ug/L	480.67 ppb	08:39:10
2	Ti 334.940†	245240.4	284678.1	513.95 ug/L	513.95 ppb	08:40:29
2	Tl 190.801†	996.2	1177.1	458.45 ug/L	458.45 ppb	08:40:49
2	U 409.014†	13633.2	17800.6	501.87 ug/L	501.87 ppb	08:40:29
2	V 292.402†	57302.5	67691.9	511.68 ug/L	511.68 ppb	08:40:29
2	Zn 213.857†	39339.8	44886.0	502.12 ug/L	502.12 ppb	08:40:29
2	SiO2†	125387.7	144444.3	11527 ug/L	11527 ppb	08:41:26
3	Sc 361.383	739054.8	739054.8	87.998 %		08:40:55
3	Sc Radial	3705.3	3705.3	91.9 %		08:39:55
3	Y 371.029	615574.4	615574.4	85.965 %		08:40:55
3	Y RADIAL	4045.5	4045.5	89.54 %		08:39:55
3	Ag 328.068†	38824.9	43866.9	272.86 ug/L	272.86 ppb	08:40:55
3	Al 396.153Radial†	452407.0	492598.0	524970 ug/L	524970 ppb	08:39:35
3	As 188.979†	783.2	910.8	534.23 ug/L	534.23 ppb	08:41:15
3	B 249.677†	17193.6	19788.8	512.93 ug/L	512.93 ppb	08:40:55
3	Ba 233.527†	45966.4	52217.3	496.22 ug/L	496.22 ppb	08:40:55
3	Be 313.107†	533966.0	611057.0	249.20 ug/L	249.20 ppb	08:40:55
3	Ca 317.933Radial†	216685.0	235879.6	479250 ug/L	479250 ppb	08:39:35
3	Cd 226.502†	30422.4	34738.2	471.45 ug/L	471.45 ppb	08:41:15
3	Co 228.616†	15569.1	17731.5	458.97 ug/L	458.97 ppb	08:41:15
3	Cr 267.716†	31541.7	35748.8	485.32 ug/L	485.32 ppb	08:40:55
3	Cu 324.752†	154118.1	168785.7	556.68 ug/L	556.68 ppb	08:40:55
3	Fe 238.204 Radial†	13441.9	14624.7	182890 ug/L	182890 ppb	08:39:55
3	K 766.490 Radial†	26905.6	26487.9	5124.7 ug/L	5124.7 ppb	08:39:35
3	Mg 279.077 IEC†	10230.8	11137.2	486330 ug/L	486330 ppb	08:39:55
3	Mn 257.610†	324939.0	368805.5	482.06 ug/L	482.06 ppb	08:40:55
3	Mo 202.031†	4757.7	5392.5	493.99 ug/L	493.99 ppb	08:41:15
3	Na 589.592 Radial†	11858.3	13370.6	5250.8 ug/L	5250.8 ppb	08:39:55
3	Ni 231.604†	13199.8	14906.5	465.18 ug/L	465.18 ppb	08:41:15
3	P 214.914†	3313.3	3597.0	2464.3 ug/L	2464.3 ppb	08:41:15
3	Pb 220.353†	2043.2	2380.7	456.63 ug/L	456.63 ppb	08:41:15
3	S 181.975 Axial†	1387.2	1552.0	2622.0 ug/L	2622.0 ppb	08:41:15
3	Sb 206.836†	1198.8	1335.7	567.77 ug/L	567.77 ppb	08:41:15
3	Se 196.026†	2046.5	2342.6	2611.0 ug/L	2611.0 ppb	08:41:15
3	Si 251.611†	125437.0	142020.1	5282.0 ug/L	5282.0 ppb	08:40:55
3	Sn 189.927†	1668.0	1892.4	493.78 ug/L	493.78 ppb	08:41:15
3	Sr 421.552†	52363.5	56936.1	481.26 ug/L	481.26 ppb	08:39:35
3	Ti 334.940†	249088.0	284144.8	513.01 ug/L	513.01 ppb	08:40:55
3	Tl 190.801†	978.1	1136.5	442.79 ug/L	442.79 ppb	08:41:15
3	U 409.014†	14115.4	18075.8	509.98 ug/L	509.98 ppb	08:40:55
3	V 292.402†	57975.4	67310.2	508.68 ug/L	508.68 ppb	08:40:55
3	Zn 213.857†	39856.0	44685.6	499.78 ug/L	499.78 ppb	08:40:55
3	SiO2†	124757.2	141219.7	11270 ug/L	11270 ppb	08:41:31

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	732424.0	87.208 %	0.7627			0.87%
Sc Radial	3701.5	91.8 %	0.33			0.36%
Y 371.029	609613.4	85.133 %	0.7556			0.89%
Y RADIAL	4035.8	89.33 %	0.465			0.52%
Ag 328.068†	43991.7	273.57 ug/L	0.621	273.57 ppb	0.621	0.23%
QC value within limits for Ag 328.068 Recovery = 109.43%						
Al 396.153Radial†	492779.3	525160 ug/L	1039.1	525160 ppb	1039.1	0.20%
QC value within limits for Al 396.153Radial Recovery = 105.03%						
As 188.979†	915.6	536.87 ug/L	3.374	536.87 ppb	3.374	0.63%
QC value within limits for As 188.979 Recovery = 107.37%						
B 249.677†	19731.1	511.28 ug/L	1.465	511.28 ppb	1.465	0.29%
QC value within limits for B 249.677 Recovery = 102.26%						
Ba 233.527†	52410.9	498.04 ug/L	1.805	498.04 ppb	1.805	0.36%
QC value within limits for Ba 233.527 Recovery = 99.61%						
Be 313.107†	612430.7	249.76 ug/L	0.568	249.76 ppb	0.568	0.23%
QC value within limits for Be 313.107 Recovery = 99.90%						

Ca 317.933Radial†	236486.3	480480 ug/L	2031.8	480480 ppb	2031.8	0.42%
QC value within limits for Ca 317.933Radial Recovery = 96.10%						
Cd 226.502†	34986.9	474.93 ug/L	3.077	474.93 ppb	3.077	0.65%
QC value within limits for Cd 226.502 Recovery = 94.99%						
Co 228.616†	17883.0	462.92 ug/L	3.598	462.92 ppb	3.598	0.78%
QC value within limits for Co 228.616 Recovery = 92.58%						
Cr 267.716†	35902.2	487.35 ug/L	1.855	487.35 ppb	1.855	0.38%
QC value within limits for Cr 267.716 Recovery = 97.47%						
Cu 324.752†	169102.5	557.73 ug/L	0.906	557.73 ppb	0.906	0.16%
QC value within limits for Cu 324.752 Recovery = 111.55%						
Fe 238.204 Radial†	14649.1	183200 ug/L	471.1	183200 ppb	471.1	0.26%
QC value within limits for Fe 238.204 Radial Recovery = 91.60%						
K 766.490 Radial†	26428.0	5112.4 ug/L	22.24	5112.4 ppb	22.24	0.43%
QC value within limits for K 766.490 Radial Recovery = 102.25%						
Mg 279.077 IEC†	11156.1	487160 ug/L	1465.9	487160 ppb	1465.9	0.30%
QC value within limits for Mg 279.077 IEC Recovery = 97.43%						
Mn 257.610†	370444.8	484.21 ug/L	1.965	484.21 ppb	1.965	0.41%
QC value within limits for Mn 257.610 Recovery = 96.84%						
Mo 202.031†	5440.5	498.24 ug/L	3.689	498.24 ppb	3.689	0.74%
QC value within limits for Mo 202.031 Recovery = 99.65%						
Na 589.592 Radial†	13386.4	5257.0 ug/L	25.62	5257.0 ppb	25.62	0.49%
QC value within limits for Na 589.592 Radial Recovery = 105.14%						
Ni 231.604†	14974.3	467.29 ug/L	2.143	467.29 ppb	2.143	0.46%
QC value within limits for Ni 231.604 Recovery = 93.46%						
P 214.914†	3646.0	2499.1 ug/L	35.85	2499.1 ppb	35.85	1.43%
QC value within limits for P 214.914 Recovery = 99.96%						
Pb 220.353†	2405.6	460.41 ug/L	6.185	460.41 ppb	6.185	1.34%
QC value within limits for Pb 220.353 Recovery = 92.08%						
S 181.975 Axial†	1564.0	2643.0 ug/L	18.19	2643.0 ppb	18.19	0.69%
QC value within limits for S 181.975 Axial Recovery = 105.72%						
Sb 206.836†	1352.3	574.93 ug/L	9.682	574.93 ppb	9.682	1.68%
QC value within limits for Sb 206.836 Recovery = 114.99%						
Se 196.026†	2371.5	2635.0 ug/L	22.45	2635.0 ppb	22.45	0.85%
QC value within limits for Se 196.026 Recovery = 105.40%						
Si 251.611†	142427.3	5297.1 ug/L	15.72	5297.1 ppb	15.72	0.30%
QC value within limits for Si 251.611 Recovery = 105.94%						
Sn 189.927†	1894.3	494.38 ug/L	4.421	494.38 ppb	4.421	0.89%
QC value within limits for Sn 189.927 Recovery = 98.88%						
Sr 421.552†	57019.7	481.97 ug/L	1.754	481.97 ppb	1.754	0.36%
QC value within limits for Sr 421.552 Recovery = 96.39%						
Ti 334.940†	284564.3	513.83 ug/L	0.768	513.83 ppb	0.768	0.15%
QC value within limits for Ti 334.940 Recovery = 102.77%						
Tl 190.801†	1156.9	450.68 ug/L	7.830	450.68 ppb	7.830	1.74%
QC value within limits for Tl 190.801 Recovery = 90.14%						
U 409.014†	17949.9	506.24 ug/L	4.092	506.24 ppb	4.092	0.81%
QC value within limits for U 409.014 Recovery = 101.25%						
V 292.402†	67499.1	510.16 ug/L	1.503	510.16 ppb	1.503	0.29%
QC value within limits for V 292.402 Recovery = 102.03%						
Zn 213.857†	44875.4	501.98 ug/L	2.125	501.98 ppb	2.125	0.42%
QC value within limits for Zn 213.857 Recovery = 100.40%						
SiO2†	142860.7	11401 ug/L	128.8	11401 ppb	128.8	1.13%
QC value within limits for SiO2 Recovery = 106.60%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 3/25/2010 08:43:41

Data Type: Reprocessed on 3/25/2010 09:41:49

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	711857.2	711857.2	84.759 %		08:46:52
1	Sc Radial	3681.3	3681.3	91.3 %		08:45:53
1	Y 371.029	594108.5	594108.5	82.967 %		08:46:52
1	Y RADIAL	3991.6	3991.6	88.35 %		08:45:53
1	Ag 328.068†	-20543.7	-24491.0	-7.8650 ug/L	-7.8650 ppb	08:46:52
1	Al 396.153Radial†	443336.2	485867.5	517820 ug/L	517820 ppb	08:45:33
1	As 188.979†	-164.4	-173.1	8.7453 ug/L	8.7453 ppb	08:47:12
1	B 249.677†	922.3	1338.3	-33.691 ug/L	-33.691 ppb	08:46:52
1	Ba 233.527†	-1452.7	-1732.4	-2.9986 ug/L	-2.9986 ppb	08:47:12
1	Be 313.107†	-10237.9	-7816.1	-3.2264 ug/L	-3.2264 ppb	08:46:52
1	Ca 317.933Radial†	214725.2	235269.0	478010 ug/L	478010 ppb	08:45:33
1	Cd 226.502†	2750.0	3410.9	6.1923 ug/L	6.1923 ppb	08:47:12
1	Co 228.616†	198.6	273.2	0.7944 ug/L	0.7944 ppb	08:47:12
1	Cr 267.716†	-1135.8	-1435.0	21.413 ug/L	21.413 ppb	08:47:12
1	Cu 324.752†	973.8	-5203.9	-2.1446 ug/L	-2.1446 ppb	08:46:52
1	Fe 238.204 Radial†	31672.7	34696.5	433870 ug/L	433870 ppb	08:45:53
1	K 766.490 Radial†	2599.3	45.0	-348.42 ug/L	-348.42 ppb	08:45:33
1	Mg 279.077 IEC†	10181.8	11156.0	486890 ug/L	486890 ppb	08:45:53
1	Mn 257.610†	-22008.4	-26418.1	-11.736 ug/L	-11.736 ppb	08:46:52
1	Mo 202.031†	-395.3	-480.6	-2.8814 ug/L	-2.8814 ppb	08:47:12
1	Na 589.592 Radial†	1176582.1	1289706.4	506490 ug/L	506490 ppb	08:45:33
1	Ni 231.604†	246.7	197.5	6.1626 ug/L	6.1626 ppb	08:47:12
1	P 214.914†	494.5	415.2	80.601 ug/L	80.601 ppb	08:47:12
1	Pb 220.353†	-499.0	-529.9	-20.454 ug/L	-20.454 ppb	08:47:12
1	S 181.975 Axial†	57.3	43.2	-21.265 ug/L	-21.265 ppb	08:47:12
1	Sb 206.836†	50.2	32.6	-7.1174 ug/L	-7.1174 ppb	08:47:12
1	Se 196.026†	-1949.4	-2283.0	-336.68 ug/L	-336.68 ppb	08:47:12
1	Si 251.611†	-435.7	-1039.5	-38.184 ug/L	-38.184 ppb	08:47:12
1	Sn 189.927†	-350.7	-416.8	-32.309 ug/L	-32.309 ppb	08:47:12
1	Sr 421.552†	1325.2	1382.0	8.1995 ug/L	8.1995 ppb	08:45:53
1	Ti 334.940†	-12424.5	-13575.2	-5.5739 ug/L	-5.5739 ppb	08:46:52
1	Tl 190.801†	-86.2	-76.7	-30.062 ug/L	-30.062 ppb	08:47:12
1	U 409.014†	426790.6	505566.5	14827 ug/L	14827 ppb	08:46:52
1	V 292.402†	870.6	2454.7	-6.9500 ug/L	-6.9500 ppb	08:47:12
1	Zn 213.857†	4731.4	4975.7	-5.8344 ug/L	-5.8344 ppb	08:47:12
1	SiO2†	-529.5	-1178.0	-92.967 ug/L	-92.967 ppb	08:48:09
2	Sc 361.383	721124.0	721124.0	85.863 %		08:47:17
2	Sc Radial	3662.5	3662.5	90.8 %		08:46:19
2	Y 371.029	601501.5	601501.5	84.000 %		08:47:17
2	Y RADIAL	3991.4	3991.4	88.34 %		08:46:19
2	Ag 328.068†	-20684.4	-24343.4	-7.5856 ug/L	-7.5856 ppb	08:47:17
2	Al 396.153Radial†	442847.6	487828.1	519910 ug/L	519910 ppb	08:45:59
2	As 188.979†	-139.2	-141.2	25.482 ug/L	25.482 ppb	08:47:37
2	B 249.677†	828.6	1215.2	-36.839 ug/L	-36.839 ppb	08:47:17
2	Ba 233.527†	-1439.5	-1695.0	-2.6918 ug/L	-2.6918 ppb	08:47:37
2	Be 313.107†	-10342.6	-7782.8	-3.2116 ug/L	-3.2116 ppb	08:47:17
2	Ca 317.933Radial†	214684.4	236434.3	480380 ug/L	480380 ppb	08:45:59
2	Cd 226.502†	2717.2	3331.0	5.2101 ug/L	5.2101 ppb	08:47:37
2	Co 228.616†	182.9	251.9	0.2557 ug/L	0.2557 ppb	08:47:37
2	Cr 267.716†	-1167.8	-1455.1	21.005 ug/L	21.005 ppb	08:47:37
2	Cu 324.752†	940.0	-5258.0	-2.3864 ug/L	-2.3864 ppb	08:47:17
2	Fe 238.204 Radial†	31405.6	34580.8	432420 ug/L	432420 ppb	08:46:19
2	K 766.490 Radial†	2463.5	-89.9	-377.28 ug/L	-377.28 ppb	08:45:59
2	Mg 279.077 IEC†	10063.0	11082.6	483680 ug/L	483680 ppb	08:46:19
2	Mn 257.610†	-22280.9	-26401.8	-11.727 ug/L	-11.727 ppb	08:47:17
2	Mo 202.031†	-425.8	-510.2	-5.5667 ug/L	-5.5667 ppb	08:47:37
2	Na 589.592 Radial†	1177257.6	1297082.2	509380 ug/L	509380 ppb	08:45:59
2	Ni 231.604†	237.2	182.6	5.6974 ug/L	5.6974 ppb	08:47:37

2	P 214.914†	500.6	414.9	82.084 ug/L	82.084 ppb	08:47:37
2	Pb 220.353†	-521.4	-548.4	-22.552 ug/L	-22.552 ppb	08:47:37
2	S 181.975 Axial†	49.0	32.7	-40.116 ug/L	-40.116 ppb	08:47:37
2	Sb 206.836†	50.9	32.7	-7.1244 ug/L	-7.1244 ppb	08:47:37
2	Se 196.026†	-1966.1	-2272.9	-332.09 ug/L	-332.09 ppb	08:47:37
2	Si 251.611†	-425.5	-1021.0	-37.462 ug/L	-37.462 ppb	08:47:37
2	Sn 189.927†	-343.4	-403.0	-28.748 ug/L	-28.748 ppb	08:47:37
2	Sr 421.552†	1324.2	1388.4	8.2363 ug/L	8.2363 ppb	08:46:19
2	Ti 334.940†	-12302.2	-13244.4	-4.4174 ug/L	-4.4174 ppb	08:47:17
2	Tl 190.801†	-82.5	-71.0	-27.860 ug/L	-27.860 ppb	08:47:37
2	U 409.014†	431811.6	504943.6	14808 ug/L	14808 ppb	08:47:17
2	V 292.402†	881.1	2453.7	-6.8812 ug/L	-6.8812 ppb	08:47:37
2	Zn 213.857†	4757.6	4934.5	-6.1042 ug/L	-6.1042 ppb	08:47:37
2	SiO2†	-476.6	-1108.4	-87.335 ug/L	-87.335 ppb	08:48:14
3	Sc 361.383	722835.2	722835.2	86.067 %		08:47:43
3	Sc Radial	3672.1	3672.1	91.0 %		08:46:45
3	Y 371.029	604237.5	604237.5	84.382 %		08:47:43
3	Y RADIAL	3981.0	3981.0	88.11 %		08:46:45
3	Ag 328.068†	-20560.4	-24142.3	-6.7567 ug/L	-6.7567 ppb	08:47:43
3	Al 396.153Radial†	443426.7	487192.4	519230 ug/L	519230 ppb	08:46:25
3	As 188.979†	-149.3	-152.6	19.234 ug/L	19.234 ppb	08:48:03
3	B 249.677†	886.9	1280.6	-34.941 ug/L	-34.941 ppb	08:47:43
3	Ba 233.527†	-1462.5	-1717.7	-2.9251 ug/L	-2.9251 ppb	08:48:03
3	Be 313.107†	-10370.4	-7786.5	-3.2130 ug/L	-3.2130 ppb	08:47:43
3	Ca 317.933Radial†	214504.7	235620.4	478720 ug/L	478720 ppb	08:46:25
3	Cd 226.502†	2750.2	3361.9	5.7134 ug/L	5.7134 ppb	08:48:03
3	Co 228.616†	188.8	258.3	0.4327 ug/L	0.4327 ppb	08:48:03
3	Cr 267.716†	-1144.2	-1424.4	21.333 ug/L	21.333 ppb	08:48:03
3	Cu 324.752†	859.0	-5354.7	-2.7414 ug/L	-2.7414 ppb	08:47:43
3	Fe 238.204 Radial†	31442.4	34531.0	431800 ug/L	431800 ppb	08:46:45
3	K 766.490 Radial†	2333.3	-240.0	-404.63 ug/L	-404.63 ppb	08:46:25
3	Mg 279.077 IEC†	10110.8	11106.2	484710 ug/L	484710 ppb	08:46:45
3	Mn 257.610†	-22398.3	-26476.8	-11.929 ug/L	-11.929 ppb	08:47:43
3	Mo 202.031†	-414.6	-495.9	-4.3775 ug/L	-4.3775 ppb	08:48:03
3	Na 589.592 Radial†	1168111.1	1283653.3	504110 ug/L	504110 ppb	08:46:25
3	Ni 231.604†	246.2	192.5	6.0067 ug/L	6.0067 ppb	08:48:03
3	P 214.914†	482.8	392.7	66.538 ug/L	66.538 ppb	08:48:03
3	Pb 220.353†	-481.1	-500.2	-15.363 ug/L	-15.363 ppb	08:48:03
3	S 181.975 Axial†	59.8	45.2	-18.162 ug/L	-18.162 ppb	08:48:03
3	Sb 206.836†	57.2	39.9	-4.0511 ug/L	-4.0511 ppb	08:48:03
3	Se 196.026†	-1982.7	-2286.7	-345.21 ug/L	-345.21 ppb	08:48:03
3	Si 251.611†	-403.4	-994.2	-36.480 ug/L	-36.480 ppb	08:48:03
3	Sn 189.927†	-351.9	-411.9	-30.979 ug/L	-30.979 ppb	08:48:03
3	Sr 421.552†	1320.8	1380.9	8.1845 ug/L	8.1845 ppb	08:46:45
3	Ti 334.940†	-12323.6	-13235.3	-4.7145 ug/L	-4.7145 ppb	08:47:43
3	Tl 190.801†	-75.0	-62.1	-24.436 ug/L	-24.436 ppb	08:48:03
3	U 409.014†	433283.5	505463.2	14824 ug/L	14824 ppb	08:47:43
3	V 292.402†	812.1	2371.1	-7.3602 ug/L	-7.3602 ppb	08:48:03
3	Zn 213.857†	4774.0	4940.5	-5.9415 ug/L	-5.9415 ppb	08:48:03
3	SiO2†	-461.5	-1089.6	-85.867 ug/L	-85.867 ppb	08:48:19

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	718605.5	85.563 %	0.7033			0.82%
Sc Radial	3672.0	91.0 %	0.23			0.26%
Y 371.029	599949.2	83.783 %	0.7318			0.87%
Y RADIAL	3988.0	88.27 %	0.134			0.15%
Ag 328.068†	-24325.6	-7.4024 ug/L	0.57646	-7.4024 ppb	0.57646	7.79%
Al 396.153Radial†	486962.6	518990 ug/L	1066.1	518990 ppb	1066.1	0.21%
QC value within limits for Al 396.153Radial Recovery = 103.80%						
As 188.979†	-155.6	17.820 ug/L	8.4574	17.820 ppb	8.4574	47.46%
B 249.677†	1278.0	-35.157 ug/L	1.5851	-35.157 ppb	1.5851	4.51%
Ba 233.527†	-1715.1	-2.8718 ug/L	0.16021	-2.8718 ppb	0.16021	5.58%
Be 313.107†	-7795.1	-3.2170 ug/L	0.00816	-3.2170 ppb	0.00816	0.25%
Ca 317.933Radial†	235774.6	479030 ug/L	1214.6	479030 ppb	1214.6	0.25%
QC value within limits for Ca 317.933Radial Recovery = 95.81%						
Cd 226.502†	3367.9	5.7053 ug/L	0.49116	5.7053 ppb	0.49116	8.61%
Co 228.616†	261.1	0.4943 ug/L	0.27454	0.4943 ppb	0.27454	55.54%
Cr 267.716†	-1438.1	21.251 ug/L	0.2161	21.251 ppb	0.2161	1.02%

Cu 324.752†	-5272.2	-2.4241 ug/L	0.30018	-2.4241 ppb	0.30018	12.38%
Fe 238.204 Radial†	34602.8	432700 ug/L	1061.5	432700 ppb	1061.5	0.25%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 86.54%						
K 766.490 Radial†	-95.0	-376.78 ug/L	28.109	-376.78 ppb	28.109	7.46%
Mg 279.077 IEC†	11115.0	485090 ug/L	1635.1	485090 ppb	1635.1	0.34%
QC value within limits for Mg 279.077 IEC Recovery = 97.02%						
Mn 257.610†	-26432.3	-11.797 ug/L	0.1140	-11.797 ppb	0.1140	0.97%
Mo 202.031†	-495.5	-4.2752 ug/L	1.34557	-4.2752 ppb	1.34557	31.47%
Na 589.592 Radial†	1290147.3	506660 ug/L	2641.1	506660 ppb	2641.1	0.52%
QC value within limits for Na 589.592 Radial Recovery = 101.33%						
Ni 231.604†	190.9	5.9556 ug/L	0.23676	5.9556 ppb	0.23676	3.98%
P 214.914†	407.6	76.408 ug/L	8.5794	76.408 ppb	8.5794	11.23%
Pb 220.353†	-526.1	-19.456 ug/L	3.6968	-19.456 ppb	3.6968	19.00%
S 181.975 Axial†	40.4	-26.514 ug/L	11.8808	-26.514 ppb	11.8808	44.81%
Sb 206.836†	35.0	-6.0976 ug/L	1.77238	-6.0976 ppb	1.77238	29.07%
Se 196.026†	-2280.9	-337.99 ug/L	6.661	-337.99 ppb	6.661	1.97%
Si 251.611†	-1018.2	-37.375 ug/L	0.8554	-37.375 ppb	0.8554	2.29%
Sn 189.927†	-410.6	-30.679 ug/L	1.7993	-30.679 ppb	1.7993	5.86%
Sr 421.552†	1383.8	8.2068 ug/L	0.02664	8.2068 ppb	0.02664	0.32%
Ti 334.940†	-13351.6	-4.9019 ug/L	0.60061	-4.9019 ppb	0.60061	12.25%
Tl 190.801†	-69.9	-27.453 ug/L	2.8354	-27.453 ppb	2.8354	10.33%
U 409.014†	505324.4	14820 ug/L	9.8	14820 ppb	9.8	0.07%
QC value within limits for U 409.014 Recovery = 98.80%						
V 292.402†	2426.5	-7.0638 ug/L	0.25897	-7.0638 ppb	0.25897	3.67%
Zn 213.857†	4950.2	-5.9600 ug/L	0.13581	-5.9600 ppb	0.13581	2.28%
SiO2†	-1125.4	-88.723 ug/L	3.7479	-88.723 ppb	3.7479	4.22%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/25/2010 08:50:29

Data Type: Reprocessed on 3/25/2010 09:41:51

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	812279.4	812279.4	96.717 %		08:54:04
1	Sc Radial	3955.8	3955.8	98.1 %		08:52:46
1	Y 371.029	676098.6	676098.6	94.417 %		08:54:04
1	Y RADIAL	4424.0	4424.0	97.92 %		08:52:26
1	Ag 328.068†	-6263.1	-6729.2	7.3024 ug/L	7.3024 ppb	08:54:09
1	Al 396.153Radial†	367.2	454.1	7.4579 ug/L	7.4579 ppb	08:52:26
1	As 188.979†	18091.6	18726.6	10102 ug/L	10102 ppb	08:54:09
1	B 249.677†	180345.8	186718.6	5104.0 ug/L	5104.0 ppb	08:54:04
1	Ba 233.527†	1403478.1	1451106.2	13626 ug/L	13626 ppb	08:54:04
1	Be 313.107†	6974964.5	7216019.8	2952.4 ug/L	2952.4 ppb	08:53:57
1	Ca 317.933Radial†	26.3	9.6	19.505 ug/L	19.505 ppb	08:52:46
1	Cd 226.502†	684169.4	707562.6	9985.8 ug/L	9985.8 ppb	08:54:04
1	Co 228.616†	370123.3	382727.5	9958.8 ug/L	9958.8 ppb	08:54:04
1	Cr 267.716†	1830402.4	1892447.7	24653 ug/L	24653 ppb	08:54:04
1	Cu 324.752†	6126605.9	6328244.9	20520 ug/L	20520 ppb	08:53:57
1	Fe 238.204 Radial†	-14.3	-23.6	2.8032 ug/L	2.8032 ppb	08:52:46
1	K 766.490 Radial†	1440001.9	1465592.8	292560 ug/L	292560 ppb	08:52:21
1	Mg 279.077 IEC†	-2.8	-3.6	-54.541 ug/L	-54.541 ppb	08:52:46
1	Mn 257.610†	7138329.9	7380216.2	9683.2 ug/L	9683.2 ppb	08:53:57
1	Mo 202.031†	108110.2	111766.3	9826.1 ug/L	9826.1 ppb	08:54:09
1	Na 589.592 Radial†	-250.3	205.7	80.765 ug/L	80.765 ppb	08:52:26
1	Ni 231.604†	315536.1	326154.6	10178 ug/L	10178 ppb	08:54:04
1	P 214.914†	24218.5	24872.5	13899 ug/L	13899 ppb	08:54:09
1	Pb 220.353†	159235.5	164700.2	24843 ug/L	24843 ppb	08:54:04
1	S 181.975 Axial†	29031.7	29992.9	52572 ug/L	52572 ppb	08:54:09
1	Sb 206.836†	24646.6	25456.7	11182 ug/L	11182 ppb	08:54:09
1	Se 196.026†	12628.1	13073.8	10448 ug/L	10448 ppb	08:54:09
1	Si 251.611†	1260845.0	1303123.9	48398 ug/L	48398 ppb	08:54:04
1	Sn 189.927†	45186.1	46717.1	10347 ug/L	10347 ppb	08:54:09
1	Sr 421.552†	1105470.7	1127198.5	9598.7 ug/L	9598.7 ppb	08:52:21
1	Ti 334.940†	5624582.6	5816614.5	9998.6 ug/L	9998.6 ppb	08:53:57
1	Tl 190.801†	24638.2	25499.7	9925.7 ug/L	9925.7 ppb	08:54:09
1	U 409.014†	-1132.4	864.4	-29.670 ug/L	-29.670 ppb	08:54:04
1	V 292.402†	1281143.8	1326064.8	10342 ug/L	10342 ppb	08:54:04
1	Zn 213.857†	1174558.1	1213826.7	14327 ug/L	14327 ppb	08:54:04
1	SiO2†	1262426.2	1304730.9	103970 ug/L	103970 ppb	08:54:55
2	Sc 361.383	814009.4	814009.4	96.923 %		08:54:24
2	Sc Radial	3913.2	3913.2	97.0 %		08:53:17
2	Y 371.029	678170.9	678170.9	94.707 %		08:54:24
2	Y RADIAL	4253.2	4253.2	94.14 %		08:52:57
2	Ag 328.068†	-6157.9	-6606.8	7.8844 ug/L	7.8844 ppb	08:54:29
2	Al 396.153Radial†	372.2	463.4	20.453 ug/L	20.453 ppb	08:52:57
2	As 188.979†	18020.8	18613.8	10041 ug/L	10041 ppb	08:54:29
2	B 249.677†	180762.6	186752.2	5105.0 ug/L	5105.0 ppb	08:54:24
2	Ba 233.527†	1401802.7	1446293.5	13581 ug/L	13581 ppb	08:54:24
2	Be 313.107†	6895609.3	7118818.2	2912.6 ug/L	2912.6 ppb	08:54:17
2	Ca 317.933Radial†	33.3	17.1	34.749 ug/L	34.749 ppb	08:53:17
2	Cd 226.502†	683767.0	705644.1	9958.7 ug/L	9958.7 ppb	08:54:24
2	Co 228.616†	369980.6	381767.0	9934.0 ug/L	9934.0 ppb	08:54:24
2	Cr 267.716†	1830442.2	1888466.5	24601 ug/L	24601 ppb	08:54:24
2	Cu 324.752†	6043359.2	6228892.4	20197 ug/L	20197 ppb	08:54:17
2	Fe 238.204 Radial†	-13.5	-22.9	11.052 ug/L	11.052 ppb	08:53:17
2	K 766.490 Radial†	1472184.0	1514764.8	302380 ug/L	302380 ppb	08:52:52
2	Mg 279.077 IEC†	-3.6	-4.5	-92.002 ug/L	-92.002 ppb	08:53:17
2	Mn 257.610†	7053872.4	7277391.2	9548.3 ug/L	9548.3 ppb	08:54:17
2	Mo 202.031†	107630.0	111033.3	9761.6 ug/L	9761.6 ppb	08:54:29
2	Na 589.592 Radial†	-249.3	203.9	80.091 ug/L	80.091 ppb	08:52:57
2	Ni 231.604†	315372.4	325292.4	10151 ug/L	10151 ppb	08:54:24

2	P 214.914†	23937.2	24529.0	13716 ug/L	13716 ppb	08:54:29
2	Pb 220.353†	159055.2	164164.2	24763 ug/L	24763 ppb	08:54:24
2	S 181.975 Axial†	28822.7	29713.5	52082 ug/L	52082 ppb	08:54:29
2	Sb 206.836†	24558.9	25312.0	11119 ug/L	11119 ppb	08:54:29
2	Se 196.026†	12577.3	12993.6	10384 ug/L	10384 ppb	08:54:29
2	Si 251.611†	1261622.6	1301155.6	48326 ug/L	48326 ppb	08:54:24
2	Sn 189.927†	44942.3	46366.2	10269 ug/L	10269 ppb	08:54:29
2	Sr 421.552†	1131511.6	1166323.5	9931.9 ug/L	9931.9 ppb	08:52:52
2	Ti 334.940†	5554927.7	5732388.4	9853.7 ug/L	9853.7 ppb	08:54:17
2	Tl 190.801†	24530.7	25334.7	9860.1 ug/L	9860.1 ppb	08:54:29
2	U 409.014†	-1171.5	826.5	-30.670 ug/L	-30.670 ppb	08:54:24
2	V 292.402†	1282675.7	1324830.1	10331 ug/L	10331 ppb	08:54:24
2	Zn 213.857†	1173982.9	1210652.2	14290 ug/L	14290 ppb	08:54:24
2	SiO2†	1266015.6	1305660.1	104050 ug/L	104050 ppb	08:55:01
3	Sc 361.383	821266.5	821266.5	97.787 %		08:54:44
3	Sc Radial	3880.0	3880.0	96.2 %		08:53:47
3	Y 371.029	684193.0	684193.0	95.548 %		08:54:44
3	Y RADIAL	4285.6	4285.6	94.85 %		08:53:27
3	Ag 328.068†	-6093.6	-6484.9	8.3627 ug/L	8.3627 ppb	08:54:49
3	Al 396.153Radial†	392.8	488.1	49.154 ug/L	49.154 ppb	08:53:27
3	As 188.979†	18125.4	18556.5	10009 ug/L	10009 ppb	08:54:49
3	B 249.677†	182320.5	186697.4	5103.7 ug/L	5103.7 ppb	08:54:44
3	Ba 233.527†	1408455.1	1440316.1	13525 ug/L	13525 ppb	08:54:44
3	Be 313.107†	6894710.6	7055030.9	2886.5 ug/L	2886.5 ppb	08:54:37
3	Ca 317.933Radial†	30.7	14.8	30.016 ug/L	30.016 ppb	08:53:47
3	Cd 226.502†	685592.0	701276.4	9897.1 ug/L	9897.1 ppb	08:54:44
3	Co 228.616†	371200.3	379641.1	9878.8 ug/L	9878.8 ppb	08:54:44
3	Cr 267.716†	1838924.4	1880452.4	24496 ug/L	24496 ppb	08:54:44
3	Cu 324.752†	6052121.7	6182755.1	20048 ug/L	20048 ppb	08:54:37
3	Fe 238.204 Radial†	-13.5	-23.1	7.3386 ug/L	7.3386 ppb	08:53:47
3	K 766.490 Radial†	1438587.6	1492816.4	298000 ug/L	298000 ppb	08:53:22
3	Mg 279.077 IEC†	-4.5	-5.4	-132.03 ug/L	-132.03 ppb	08:53:47
3	Mn 257.610†	7043105.3	7202069.3	9449.5 ug/L	9449.5 ppb	08:54:37
3	Mo 202.031†	108041.4	110472.6	9712.4 ug/L	9712.4 ppb	08:54:49
3	Na 589.592 Radial†	-280.4	169.3	66.495 ug/L	66.495 ppb	08:53:27
3	Ni 231.604†	316613.4	323686.2	10101 ug/L	10101 ppb	08:54:44
3	P 214.914†	23953.5	24327.5	13600 ug/L	13600 ppb	08:54:49
3	Pb 220.353†	159583.1	163253.9	24625 ug/L	24625 ppb	08:54:44
3	S 181.975 Axial†	28828.9	29457.0	51632 ug/L	51632 ppb	08:54:49
3	Sb 206.836†	24681.7	25213.7	11075 ug/L	11075 ppb	08:54:49
3	Se 196.026†	12609.6	12912.0	10319 ug/L	10319 ppb	08:54:49
3	Si 251.611†	1271592.0	1299848.3	48278 ug/L	48278 ppb	08:54:44
3	Sn 189.927†	45045.3	46061.8	10202 ug/L	10202 ppb	08:54:49
3	Sr 421.552†	1101788.6	1145398.4	9753.7 ug/L	9753.7 ppb	08:53:22
3	Ti 334.940†	5553643.8	5680430.5	9764.4 ug/L	9764.4 ppb	08:54:37
3	Tl 190.801†	24547.3	25127.9	9779.3 ug/L	9779.3 ppb	08:54:49
3	U 409.014†	-917.8	1096.6	-22.488 ug/L	-22.488 ppb	08:54:44
3	V 292.402†	1290058.0	1320685.2	10299 ug/L	10299 ppb	08:54:44
3	Zn 213.857†	1178398.8	1204464.7	14217 ug/L	14217 ppb	08:54:44
3	SiO2†	1258708.4	1286645.1	102530 ug/L	102530 ppb	08:55:07

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	815851.7	97.142 %	0.5678			0.58%
Sc Radial	3916.3	97.1 %	0.94			0.97%
Y 371.029	679487.5	94.891 %	0.5872			0.62%
Y RADIAL	4320.9	95.64 %	2.008			2.10%
Ag 328.068†	-6606.9	7.8499 ug/L	0.53098	7.8499 ppb	0.53098	6.76%
Al 396.153Radial†	468.5	25.688 ug/L	21.3352	25.688 ppb	21.3352	83.05%
As 188.979†	18632.3	10051 ug/L	47.3	10051 ppb	47.3	0.47%
QC value within limits for As 188.979 Recovery = 100.51%						
B 249.677†	186722.7	5104.2 ug/L	0.70	5104.2 ppb	0.70	0.01%
QC value within limits for B 249.677 Recovery = 102.08%						
Ba 233.527†	1445905.3	13577 ug/L	50.7	13577 ppb	50.7	0.37%
QC value within limits for Ba 233.527 Recovery = 90.51%						
Be 313.107†	7129956.3	2917.2 ug/L	33.18	2917.2 ppb	33.18	1.14%
QC value within limits for Be 313.107 Recovery = 97.24%						
Ca 317.933Radial†	13.8	28.090 ug/L	7.8020	28.090 ppb	7.8020	27.77%
Cd 226.502†	704827.7	9947.2 ug/L	45.46	9947.2 ppb	45.46	0.46%

QC value within limits for Cd 226.502 Recovery = 99.47%							
Co 228.616†	381378.6	9923.9 ug/L	40.99	9923.9 ppb	40.99	0.41%	
QC value within limits for Co 228.616 Recovery = 99.24%							
Cr 267.716†	1887122.2	24583 ug/L	79.6	24583 ppb	79.6	0.32%	
QC value within limits for Cr 267.716 Recovery = 98.33%							
Cu 324.752†	6246630.8	20255 ug/L	241.1	20255 ppb	241.1	1.19%	
QC value within limits for Cu 324.752 Recovery = 101.27%							
Fe 238.204 Radial†	-23.2	7.0647 ug/L	4.13135	7.0647 ppb	4.13135	58.48%	
K 766.490 Radial†	1491058.0	297650 ug/L	4917.6	297650 ppb	4917.6	1.65%	
QC value within limits for K 766.490 Radial Recovery = 99.22%							
Mg 279.077 IEC†	-4.5	-92.859 ug/L	38.7538	-92.859 ppb	38.7538	41.73%	
Mn 257.610†	7286558.9	9560.3 ug/L	117.33	9560.3 ppb	117.33	1.23%	
QC value within limits for Mn 257.610 Recovery = 95.60%							
Mo 202.031†	111090.7	9766.7 ug/L	57.03	9766.7 ppb	57.03	0.58%	
QC value within limits for Mo 202.031 Recovery = 97.67%							
Na 589.592 Radial†	193.0	75.783 ug/L	8.0510	75.783 ppb	8.0510	10.62%	
Ni 231.604†	325044.4	10144 ug/L	39.1	10144 ppb	39.1	0.39%	
QC value within limits for Ni 231.604 Recovery = 101.44%							
P 214.914†	24576.3	13738 ug/L	151.0	13738 ppb	151.0	1.10%	
QC value within limits for P 214.914 Recovery = 91.59%							
Pb 220.353†	164039.5	24744 ug/L	110.2	24744 ppb	110.2	0.45%	
QC value within limits for Pb 220.353 Recovery = 98.98%							
S 181.975 Axial†	29721.1	52095 ug/L	469.8	52095 ppb	469.8	0.90%	
QC value within limits for S 181.975 Axial Recovery = 104.19%							
Sb 206.836†	25327.5	11125 ug/L	53.9	11125 ppb	53.9	0.48%	
QC value greater than the upper limit for Sb 206.836 Recovery = 111.25%							
Se 196.026†	12993.1	10384 ug/L	64.6	10384 ppb	64.6	0.62%	
QC value within limits for Se 196.026 Recovery = 103.84%							
Si 251.611†	1301376.0	48334 ug/L	60.7	48334 ppb	60.7	0.13%	
QC value within limits for Si 251.611 Recovery = 96.67%							
Sn 189.927†	46381.7	10273 ug/L	72.6	10273 ppb	72.6	0.71%	
QC value within limits for Sn 189.927 Recovery = 102.73%							
Sr 421.552†	1146306.8	9761.4 ug/L	166.72	9761.4 ppb	166.72	1.71%	
QC value within limits for Sr 421.552 Recovery = 97.61%							
Ti 334.940†	5743144.5	9872.2 ug/L	118.21	9872.2 ppb	118.21	1.20%	
QC value within limits for Ti 334.940 Recovery = 98.72%							
Tl 190.801†	25320.8	9855.0 ug/L	73.32	9855.0 ppb	73.32	0.74%	
QC value within limits for Tl 190.801 Recovery = 98.55%							
U 409.014†	929.1	-27.609 ug/L	4.4632	-27.609 ppb	4.4632	16.17%	
V 292.402†	1323860.1	10324 ug/L	22.3	10324 ppb	22.3	0.22%	
QC value within limits for V 292.402 Recovery = 103.24%							
Zn 213.857†	1209647.8	14278 ug/L	56.0	14278 ppb	56.0	0.39%	
QC value within limits for Zn 213.857 Recovery = 95.19%							
SiO2†	1299012.0	103520 ug/L	855.2	103520 ppb	855.2	0.83%	
QC value within limits for SiO2 Recovery = 96.75%							
QC Failed. Continue with analysis.							

Sequence No.: 13

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 08:57:17

Data Type: Reprocessed on 3/25/2010 09:41:52

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	836331.0	836331.0	99.580 %		09:00:27
1	Sc Radial	4071.9	4071.9	101 %		08:59:10
1	Y 371.029	703534.7	703534.7	98.249 %		09:00:27
1	Y RADIAL	4405.5	4405.5	97.51 %		08:59:10
1	Ag 328.068†	99414.4	99580.0	505.08 ug/L	505.08 ppb	09:00:32
1	Al 396.153Radial†	4621.1	4657.5	4939.4 ug/L	4939.4 ppb	08:59:10
1	As 188.979†	920.5	945.2	510.95 ug/L	510.95 ppb	09:00:52
1	B 249.677†	18573.3	18901.8	517.31 ug/L	517.31 ppb	09:00:32
1	Ba 233.527†	52725.7	52929.4	497.43 ug/L	497.43 ppb	09:00:32
1	Be 313.107†	1217293.2	1226685.7	499.16 ug/L	499.16 ppb	09:00:27
1	Ca 317.933Radial†	2486.5	2446.1	4969.9 ug/L	4969.9 ppb	08:59:30
1	Cd 226.502†	35189.7	35504.4	500.66 ug/L	500.66 ppb	09:00:32
1	Co 228.616†	19391.9	19512.5	507.94 ug/L	507.94 ppb	09:00:32
1	Cr 267.716†	38169.5	38235.4	498.82 ug/L	498.82 ppb	09:00:32
1	Cu 324.752†	157569.5	151880.7	492.46 ug/L	492.46 ppb	09:00:32
1	Fe 238.204 Radial†	407.6	394.8	4951.7 ug/L	4951.7 ppb	08:59:30
1	K 766.490 Radial†	27689.4	24627.3	4910.2 ug/L	4910.2 ppb	08:59:10
1	Mg 279.077 IEC†	119.6	117.8	5145.2 ug/L	5145.2 ppb	08:59:30
1	Mn 257.610†	372082.1	373197.6	489.93 ug/L	489.93 ppb	09:00:32
1	Mo 202.031†	5695.2	5705.0	502.00 ug/L	502.00 ppb	09:00:52
1	Na 589.592 Radial†	24391.1	24623.9	9670.2 ug/L	9670.2 ppb	08:59:10
1	Ni 231.604†	16261.8	16236.7	506.68 ug/L	506.68 ppb	09:00:32
1	P 214.914†	3605.4	3452.4	2385.7 ug/L	2385.7 ppb	09:00:52
1	Pb 220.353†	3222.0	3294.4	498.11 ug/L	498.11 ppb	09:00:52
1	S 181.975 Axial†	602.2	580.3	1016.3 ug/L	1016.3 ppb	09:00:52
1	Sb 206.836†	1222.6	1201.1	528.49 ug/L	528.49 ppb	09:00:52
1	Se 196.026†	601.8	621.3	513.15 ug/L	513.15 ppb	09:00:52
1	Si 251.611†	67255.1	67013.0	2488.9 ug/L	2488.9 ppb	09:00:32
1	Sn 189.927†	2283.0	2289.5	507.69 ug/L	507.69 ppb	09:00:52
1	Sr 421.552†	56836.9	56235.5	478.84 ug/L	478.84 ppb	08:59:10
1	Ti 334.940†	283842.6	286122.1	492.12 ug/L	492.12 ppb	09:00:32
1	Tl 190.801†	1260.1	1290.5	502.22 ug/L	502.22 ppb	09:00:52
1	U 409.014†	14989.6	17088.0	501.13 ug/L	501.13 ppb	09:00:32
1	V 292.402†	62583.2	64274.5	502.21 ug/L	502.21 ppb	09:00:32
1	Zn 213.857†	42536.9	42109.7	495.62 ug/L	495.62 ppb	09:00:32
1	SiO2†	67074.5	66803.8	5323.6 ug/L	5323.6 ppb	09:01:59
2	Sc 361.383	839277.7	839277.7	99.931 %		09:00:58
2	Sc Radial	4031.5	4031.5	99.9 %		08:59:35
2	Y 371.029	706790.4	706790.4	98.703 %		09:00:58
2	Y RADIAL	4384.6	4384.6	97.05 %		08:59:35
2	Ag 328.068†	99540.7	99355.8	503.96 ug/L	503.96 ppb	09:01:03
2	Al 396.153Radial†	4593.8	4676.1	4959.2 ug/L	4959.2 ppb	08:59:35
2	As 188.979†	921.7	943.2	509.84 ug/L	509.84 ppb	09:01:23
2	B 249.677†	18546.9	18809.8	514.78 ug/L	514.78 ppb	09:01:03
2	Ba 233.527†	52937.6	52955.5	497.67 ug/L	497.67 ppb	09:01:03
2	Be 313.107†	1217217.1	1222317.7	497.38 ug/L	497.38 ppb	09:00:58
2	Ca 317.933Radial†	2498.7	2482.9	5044.6 ug/L	5044.6 ppb	08:59:55
2	Cd 226.502†	35272.6	35463.3	500.07 ug/L	500.07 ppb	09:01:03
2	Co 228.616†	19428.8	19481.1	507.12 ug/L	507.12 ppb	09:01:03
2	Cr 267.716†	38329.1	38260.5	499.15 ug/L	499.15 ppb	09:01:03
2	Cu 324.752†	157723.5	151479.3	491.16 ug/L	491.16 ppb	09:01:03
2	Fe 238.204 Radial†	407.6	398.8	5002.1 ug/L	5002.1 ppb	08:59:55
2	K 766.490 Radial†	27525.6	24738.1	4932.3 ug/L	4932.3 ppb	08:59:35
2	Mg 279.077 IEC†	119.7	119.0	5199.2 ug/L	5199.2 ppb	08:59:55
2	Mn 257.610†	373227.8	373032.3	489.72 ug/L	489.72 ppb	09:01:03
2	Mo 202.031†	5718.0	5707.7	502.25 ug/L	502.25 ppb	09:01:23
2	Na 589.592 Radial†	24074.7	24549.3	9640.9 ug/L	9640.9 ppb	08:59:35
2	Ni 231.604†	16240.3	16157.8	504.22 ug/L	504.22 ppb	09:01:03

2	P 214.914†	3604.4	3438.7	2376.0 ug/L	2376.0 ppb	09:01:23
2	Pb 220.353†	3214.0	3275.0	495.18 ug/L	495.18 ppb	09:01:23
2	S 181.975 Axial†	610.1	586.1	1026.4 ug/L	1026.4 ppb	09:01:23
2	Sb 206.836†	1221.3	1195.5	526.09 ug/L	526.09 ppb	09:01:23
2	Se 196.026†	614.1	631.5	521.48 ug/L	521.48 ppb	09:01:23
2	Si 251.611†	67431.9	66952.8	2486.7 ug/L	2486.7 ppb	09:01:03
2	Sn 189.927†	2285.9	2284.4	506.55 ug/L	506.55 ppb	09:01:23
2	Sr 421.552†	56365.4	56327.5	479.62 ug/L	479.62 ppb	08:59:35
2	Ti 334.940†	284759.4	286038.7	491.98 ug/L	491.98 ppb	09:01:03
2	Tl 190.801†	1265.9	1291.9	502.76 ug/L	502.76 ppb	09:01:23
2	U 409.014†	15114.9	17160.4	503.25 ug/L	503.25 ppb	09:01:03
2	V 292.402†	62728.6	64199.3	501.63 ug/L	501.63 ppb	09:01:03
2	Zn 213.857†	42594.5	42017.4	494.53 ug/L	494.53 ppb	09:01:03
2	SiO2†	67156.0	66648.9	5311.2 ug/L	5311.2 ppb	09:02:04
3	Sc 361.383	832252.8	832252.8	99.095 %		09:01:29
3	Sc Radial	4065.9	4065.9	101 %		09:00:00
3	Y 371.029	702327.0	702327.0	98.080 %		09:01:29
3	Y RADIAL	4429.2	4429.2	98.03 %		09:00:00
3	Ag 328.068†	98485.3	99131.6	502.80 ug/L	502.80 ppb	09:01:34
3	Al 396.153Radial†	4606.7	4650.0	4931.3 ug/L	4931.3 ppb	09:00:00
3	As 188.979†	906.8	935.9	505.93 ug/L	505.93 ppb	09:01:54
3	B 249.677†	18277.3	18694.4	511.63 ug/L	511.63 ppb	09:01:34
3	Ba 233.527†	52088.7	52546.1	493.83 ug/L	493.83 ppb	09:01:34
3	Be 313.107†	1209095.1	1224402.8	498.22 ug/L	498.22 ppb	09:01:29
3	Ca 317.933Radial†	2491.8	2455.0	4987.9 ug/L	4987.9 ppb	09:00:20
3	Cd 226.502†	34681.5	35164.7	495.87 ug/L	495.87 ppb	09:01:34
3	Co 228.616†	19152.6	19366.5	504.15 ug/L	504.15 ppb	09:01:34
3	Cr 267.716†	37860.8	38111.7	497.20 ug/L	497.20 ppb	09:01:34
3	Cu 324.752†	155749.7	150819.7	489.02 ug/L	489.02 ppb	09:01:34
3	Fe 238.204 Radial†	404.4	392.2	4919.8 ug/L	4919.8 ppb	09:00:20
3	K 766.490 Radial†	27518.2	24498.0	4884.4 ug/L	4884.4 ppb	09:00:00
3	Mg 279.077 IEC†	120.5	118.8	5191.1 ug/L	5191.1 ppb	09:00:20
3	Mn 257.610†	367873.2	370781.3	486.76 ug/L	486.76 ppb	09:01:34
3	Mo 202.031†	5710.5	5748.5	505.83 ug/L	505.83 ppb	09:01:54
3	Na 589.592 Radial†	23956.7	24228.8	9515.0 ug/L	9515.0 ppb	09:00:00
3	Ni 231.604†	16036.2	16089.1	502.08 ug/L	502.08 ppb	09:01:34
3	P 214.914†	3564.1	3428.5	2369.2 ug/L	2369.2 ppb	09:01:54
3	Pb 220.353†	3221.2	3309.4	500.38 ug/L	500.38 ppb	09:01:54
3	S 181.975 Axial†	595.6	576.6	1009.8 ug/L	1009.8 ppb	09:01:54
3	Sb 206.836†	1209.7	1194.1	525.59 ug/L	525.59 ppb	09:01:54
3	Se 196.026†	608.9	631.4	521.19 ug/L	521.19 ppb	09:01:54
3	Si 251.611†	66356.3	66437.0	2467.4 ug/L	2467.4 ppb	09:01:34
3	Sn 189.927†	2270.2	2287.9	507.32 ug/L	507.32 ppb	09:01:54
3	Sr 421.552†	56465.8	55950.6	476.41 ug/L	476.41 ppb	09:00:00
3	Ti 334.940†	280862.1	284511.1	489.35 ug/L	489.35 ppb	09:01:34
3	Tl 190.801†	1254.5	1291.1	502.42 ug/L	502.42 ppb	09:01:54
3	U 409.014†	14961.8	17133.6	502.48 ug/L	502.48 ppb	09:01:34
3	V 292.402†	62013.6	64007.6	500.22 ug/L	500.22 ppb	09:01:34
3	Zn 213.857†	42074.0	41851.9	492.60 ug/L	492.60 ppb	09:01:34
3	SiO2†	66952.8	67011.0	5340.1 ug/L	5340.1 ppb	09:02:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835953.9	99.535 %		0.4200			0.42%
Sc Radial	4056.4	101 %		0.5			0.54%
Y 371.029	704217.4	98.344 %		0.3224			0.33%
Y RADIAL	4406.4	97.53 %		0.494			0.51%
Ag 328.068†	99355.8	503.95 ug/L		1.140	503.95 ppb	1.140	0.23%
QC value within limits for Ag 328.068 Recovery = 100.79%							
Al 396.153Radial†	4661.2	4943.3 ug/L		14.38	4943.3 ppb	14.38	0.29%
QC value within limits for Al 396.153Radial Recovery = 98.87%							
As 188.979†	941.4	508.91 ug/L		2.639	508.91 ppb	2.639	0.52%
QC value within limits for As 188.979 Recovery = 101.78%							
B 249.677†	18802.0	514.57 ug/L		2.847	514.57 ppb	2.847	0.55%
QC value within limits for B 249.677 Recovery = 102.91%							
Ba 233.527†	52810.3	496.31 ug/L		2.152	496.31 ppb	2.152	0.43%
QC value within limits for Ba 233.527 Recovery = 99.26%							
Be 313.107†	1224468.7	498.25 ug/L		0.887	498.25 ppb	0.887	0.18%
QC value within limits for Be 313.107 Recovery = 99.65%							

Ca 317.933Radial†	2461.3	5000.8 ug/L	39.02	5000.8 ppb	39.02	0.78%
QC value within limits for Ca 317.933Radial Recovery = 100.02%						
Cd 226.502†	35377.5	498.86 ug/L	2.613	498.86 ppb	2.613	0.52%
QC value within limits for Cd 226.502 Recovery = 99.77%						
Co 228.616†	19453.4	506.41 ug/L	1.993	506.41 ppb	1.993	0.39%
QC value within limits for Co 228.616 Recovery = 101.28%						
Cr 267.716†	38202.5	498.39 ug/L	1.043	498.39 ppb	1.043	0.21%
QC value within limits for Cr 267.716 Recovery = 99.68%						
Cu 324.752†	151393.2	490.88 ug/L	1.739	490.88 ppb	1.739	0.35%
QC value within limits for Cu 324.752 Recovery = 98.18%						
Fe 238.204 Radial†	395.3	4957.9 ug/L	41.53	4957.9 ppb	41.53	0.84%
QC value within limits for Fe 238.204 Radial Recovery = 99.16%						
K 766.490 Radial†	24621.1	4909.0 ug/L	23.95	4909.0 ppb	23.95	0.49%
QC value within limits for K 766.490 Radial Recovery = 98.18%						
Mg 279.077 IEC†	118.5	5178.5 ug/L	29.10	5178.5 ppb	29.10	0.56%
QC value within limits for Mg 279.077 IEC Recovery = 103.57%						
Mn 257.610†	372337.1	488.80 ug/L	1.775	488.80 ppb	1.775	0.36%
QC value within limits for Mn 257.610 Recovery = 97.76%						
Mo 202.031†	5720.4	503.36 ug/L	2.142	503.36 ppb	2.142	0.43%
QC value within limits for Mo 202.031 Recovery = 100.67%						
Na 589.592 Radial†	24467.3	9608.7 ug/L	82.45	9608.7 ppb	82.45	0.86%
QC value within limits for Na 589.592 Radial Recovery = 96.09%						
Ni 231.604†	16161.2	504.33 ug/L	2.305	504.33 ppb	2.305	0.46%
QC value within limits for Ni 231.604 Recovery = 100.87%						
P 214.914†	3439.8	2377.0 ug/L	8.28	2377.0 ppb	8.28	0.35%
QC value within limits for P 214.914 Recovery = 95.08%						
Pb 220.353†	3293.0	497.89 ug/L	2.604	497.89 ppb	2.604	0.52%
QC value within limits for Pb 220.353 Recovery = 99.58%						
S 181.975 Axial†	581.0	1017.5 ug/L	8.38	1017.5 ppb	8.38	0.82%
QC value within limits for S 181.975 Axial Recovery = 101.75%						
Sb 206.836†	1196.9	526.72 ug/L	1.550	526.72 ppb	1.550	0.29%
QC value within limits for Sb 206.836 Recovery = 105.34%						
Se 196.026†	628.1	518.61 ug/L	4.727	518.61 ppb	4.727	0.91%
QC value within limits for Se 196.026 Recovery = 103.72%						
Si 251.611†	66801.0	2481.0 ug/L	11.82	2481.0 ppb	11.82	0.48%
QC value within limits for Si 251.611 Recovery = 99.24%						
Sn 189.927†	2287.3	507.19 ug/L	0.580	507.19 ppb	0.580	0.11%
QC value within limits for Sn 189.927 Recovery = 101.44%						
Sr 421.552†	56171.2	478.29 ug/L	1.673	478.29 ppb	1.673	0.35%
QC value within limits for Sr 421.552 Recovery = 95.66%						
Ti 334.940†	285557.3	491.15 ug/L	1.563	491.15 ppb	1.563	0.32%
QC value within limits for Ti 334.940 Recovery = 98.23%						
Tl 190.801†	1291.1	502.47 ug/L	0.273	502.47 ppb	0.273	0.05%
QC value within limits for Tl 190.801 Recovery = 100.49%						
U 409.014†	17127.4	502.29 ug/L	1.076	502.29 ppb	1.076	0.21%
QC value within limits for U 409.014 Recovery = 100.46%						
V 292.402†	64160.5	501.35 ug/L	1.025	501.35 ppb	1.025	0.20%
QC value within limits for V 292.402 Recovery = 100.27%						
Zn 213.857†	41993.0	494.25 ug/L	1.532	494.25 ppb	1.532	0.31%
QC value within limits for Zn 213.857 Recovery = 98.85%						
SiO2†	66821.2	5325.0 ug/L	14.46	5325.0 ppb	14.46	0.27%
QC value within limits for SiO2 Recovery = 99.58%						
All analyte(s) passed QC.						

Sequence No.: 14

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/25/2010 09:04:20

Data Type: Reprocessed on 3/25/2010 09:41:53

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 361.383	842439.2	842439.2	100.31 %			09:07:29
1	Sc Radial	4139.7	4139.7	103 %			09:06:12
1	Y 371.029	717387.2	717387.2	100.18 %			09:07:29
1	Y RADIAL	4507.2	4507.2	99.76 %			09:06:12
1	Ag 328.068†	265.3	11.1	0.0489 ug/L		0.0489 ppb	09:07:34
1	Al 396.153Radial†	-71.3	10.2	10.789 ug/L		10.789 ppb	09:06:32
1	As 188.979†	-9.1	11.7	6.2734 ug/L		6.2734 ppb	09:07:54
1	B 249.677†	393.9	642.8	17.675 ug/L		17.675 ppb	09:07:54
1	Ba 233.527†	16.1	-2.5	-0.0241 ug/L		-0.0241 ppb	09:07:54
1	Be 313.107†	-4212.9	62.8	0.0256 ug/L		0.0256 ppb	09:07:34
1	Ca 317.933Radial†	20.8	3.1	6.3583 ug/L		6.3583 ppb	09:06:32
1	Cd 226.502†	-149.0	17.9	0.2544 ug/L		0.2544 ppb	09:07:54
1	Co 228.616†	-42.6	-3.5	-0.0896 ug/L		-0.0896 ppb	09:07:54
1	Cr 267.716†	134.2	38.8	0.5032 ug/L		0.5032 ppb	09:07:54
1	Cu 324.752†	6481.6	109.0	0.3530 ug/L		0.3530 ppb	09:07:34
1	Fe 238.204 Radial†	6.8	-2.4	-29.670 ug/L		-29.670 ppb	09:06:32
1	K 766.490 Radial†	3232.7	346.8	69.217 ug/L		69.217 ppb	09:06:12
1	Mg 279.077 IEC†	2.6	1.8	79.581 ug/L		79.581 ppb	09:06:32
1	Mn 257.610†	461.8	8.0	0.0043 ug/L		0.0043 ppb	09:07:54
1	Mo 202.031†	26.3	12.0	1.0533 ug/L		1.0533 ppb	09:07:54
1	Na 589.592 Radial†	-444.6	27.6	10.853 ug/L		10.853 ppb	09:06:12
1	Ni 231.604†	89.7	-4.2	-0.1312 ug/L		-0.1312 ppb	09:07:54
1	P 214.914†	174.9	6.1	4.3938 ug/L		4.3938 ppb	09:07:54
1	Pb 220.353†	-50.6	8.3	1.2660 ug/L		1.2660 ppb	09:07:54
1	S 181.975 Axial†	26.0	1.6	2.7730 ug/L		2.7730 ppb	09:07:54
1	Sb 206.836†	36.8	10.0	4.3630 ug/L		4.3630 ppb	09:07:54
1	Se 196.026†	-16.8	0.2	0.0771 ug/L		0.0771 ppb	09:07:54
1	Si 251.611†	567.4	40.2	1.4837 ug/L		1.4837 ppb	09:07:54
1	Sn 189.927†	24.3	21.2	4.6907 ug/L		4.6907 ppb	09:07:54
1	Sr 421.552†	48.6	-22.6	-0.1928 ug/L		-0.1928 ppb	09:06:12
1	Ti 334.940†	-1061.9	24.7	0.0376 ug/L		0.0376 ppb	09:07:34
1	Tl 190.801†	-23.2	2.0	0.7560 ug/L		0.7560 ppb	09:07:54
1	U 409.014†	-2114.3	-72.6	-2.1340 ug/L		-2.1340 ppb	09:07:29
1	V 292.402†	-1411.5	20.3	0.1732 ug/L		0.1732 ppb	09:07:34
1	Zn 213.857†	640.7	32.3	0.3891 ug/L		0.3891 ppb	09:07:54
1	SiO2†	604.2	49.0	3.8880 ug/L		3.8880 ppb	09:09:00
2	Sc 361.383	840798.0	840798.0	100.11 %			09:07:59
2	Sc Radial	4133.7	4133.7	102 %			09:06:37
2	Y 371.029	716874.3	716874.3	100.11 %			09:07:59
2	Y RADIAL	4509.6	4509.6	99.81 %			09:06:37
2	Ag 328.068†	242.1	-11.6	-0.0616 ug/L		-0.0616 ppb	09:08:04
2	Al 396.153Radial†	-74.7	6.8	7.1934 ug/L		7.1934 ppb	09:06:57
2	As 188.979†	-8.9	12.0	6.4216 ug/L		6.4216 ppb	09:08:24
2	B 249.677†	359.0	608.8	16.736 ug/L		16.736 ppb	09:08:24
2	Ba 233.527†	36.1	17.6	0.1662 ug/L		0.1662 ppb	09:08:24
2	Be 313.107†	-3886.6	380.5	0.1549 ug/L		0.1549 ppb	09:08:04
2	Ca 317.933Radial†	21.0	3.3	6.7320 ug/L		6.7320 ppb	09:06:57
2	Cd 226.502†	-149.9	16.7	0.2373 ug/L		0.2373 ppb	09:08:24
2	Co 228.616†	-41.6	-2.6	-0.0658 ug/L		-0.0658 ppb	09:08:24
2	Cr 267.716†	127.7	32.6	0.4226 ug/L		0.4226 ppb	09:08:24
2	Cu 324.752†	7561.2	1200.0	3.8892 ug/L		3.8892 ppb	09:08:04
2	Fe 238.204 Radial†	7.8	-1.4	-17.408 ug/L		-17.408 ppb	09:06:57
2	K 766.490 Radial†	3137.9	258.8	51.665 ug/L		51.665 ppb	09:06:37
2	Mg 279.077 IEC†	0.2	-0.5	-22.131 ug/L		-22.131 ppb	09:06:57
2	Mn 257.610†	455.9	2.9	0.0030 ug/L		0.0030 ppb	09:08:24
2	Mo 202.031†	23.4	9.2	0.8034 ug/L		0.8034 ppb	09:08:24
2	Na 589.592 Radial†	-460.3	11.7	4.5957 ug/L		4.5957 ppb	09:06:37
2	Ni 231.604†	83.2	-10.5	-0.3270 ug/L		-0.3270 ppb	09:08:24

2	P 214.914†	178.2	9.7	6.2800 ug/L	6.2800 ppb	09:08:24
2	Pb 220.353†	-54.6	4.2	0.6429 ug/L	0.6429 ppb	09:08:24
2	S 181.975 Axial†	32.0	7.6	13.271 ug/L	13.271 ppb	09:08:24
2	Sb 206.836†	44.0	17.3	7.4230 ug/L	7.4230 ppb	09:08:24
2	Se 196.026†	-16.0	1.0	0.7162 ug/L	0.7162 ppb	09:08:24
2	Si 251.611†	582.3	56.2	2.0819 ug/L	2.0819 ppb	09:08:24
2	Sn 189.927†	17.5	14.4	3.1977 ug/L	3.1977 ppb	09:08:24
2	Sr 421.552†	33.0	-37.8	-0.3221 ug/L	-0.3221 ppb	09:06:37
2	Ti 334.940†	-973.8	110.6	0.1922 ug/L	0.1922 ppb	09:08:04
2	Tl 190.801†	-25.1	-0.0	-0.0175 ug/L	-0.0175 ppb	09:08:24
2	U 409.014†	-1978.0	59.4	1.7484 ug/L	1.7484 ppb	09:07:59
2	V 292.402†	-1312.7	116.3	0.9129 ug/L	0.9129 ppb	09:08:04
2	Zn 213.857†	652.8	45.7	0.5420 ug/L	0.5420 ppb	09:08:24
2	SiO2†	600.9	46.8	3.7196 ug/L	3.7196 ppb	09:09:05
3	Sc 361.383	845201.4	845201.4	100.64 %		09:08:29
3	Sc Radial	4198.2	4198.2	104 %		09:07:02
3	Y 371.029	720627.3	720627.3	100.64 %		09:08:29
3	Y RADIAL	4568.3	4568.3	101.1 %		09:07:02
3	Ag 328.068†	293.1	37.9	0.1890 ug/L	0.1890 ppb	09:08:34
3	Al 396.153Radial†	-74.3	8.2	8.7407 ug/L	8.7407 ppb	09:07:22
3	As 188.979†	-20.8	0.2	0.0975 ug/L	0.0975 ppb	09:08:54
3	B 249.677†	357.1	605.0	16.631 ug/L	16.631 ppb	09:08:54
3	Ba 233.527†	36.3	17.5	0.1641 ug/L	0.1641 ppb	09:08:54
3	Be 313.107†	-4263.0	26.7	0.0110 ug/L	0.0110 ppb	09:08:34
3	Ca 317.933Radial†	18.3	0.4	0.7437 ug/L	0.7437 ppb	09:07:22
3	Cd 226.502†	-140.2	27.1	0.3827 ug/L	0.3827 ppb	09:08:54
3	Co 228.616†	-37.1	2.1	0.0545 ug/L	0.0545 ppb	09:08:54
3	Cr 267.716†	148.9	52.9	0.6884 ug/L	0.6884 ppb	09:08:54
3	Cu 324.752†	6504.7	110.8	0.3582 ug/L	0.3582 ppb	09:08:34
3	Fe 238.204 Radial†	9.4	0.0	0.2978 ug/L	0.2978 ppb	09:07:22
3	K 766.490 Radial†	3183.9	256.0	51.114 ug/L	51.114 ppb	09:07:02
3	Mg 279.077 IEC†	1.9	1.2	50.903 ug/L	50.903 ppb	09:07:22
3	Mn 257.610†	451.2	-4.1	-0.0074 ug/L	-0.0074 ppb	09:08:54
3	Mo 202.031†	16.0	1.7	0.1499 ug/L	0.1499 ppb	09:08:54
3	Na 589.592 Radial†	-533.5	-51.7	-20.312 ug/L	-20.312 ppb	09:07:02
3	Ni 231.604†	89.9	-4.3	-0.1338 ug/L	-0.1338 ppb	09:08:54
3	P 214.914†	155.0	-14.2	-10.252 ug/L	-10.252 ppb	09:08:54
3	Pb 220.353†	-63.8	-4.6	-0.6955 ug/L	-0.6955 ppb	09:08:54
3	S 181.975 Axial†	39.4	14.7	25.843 ug/L	25.843 ppb	09:08:54
3	Sb 206.836†	26.0	-0.8	-0.3144 ug/L	-0.3144 ppb	09:08:54
3	Se 196.026†	-18.7	-1.7	-1.3187 ug/L	-1.3187 ppb	09:08:54
3	Si 251.611†	563.8	34.8	1.2944 ug/L	1.2944 ppb	09:08:54
3	Sn 189.927†	15.5	12.3	2.7346 ug/L	2.7346 ppb	09:08:54
3	Sr 421.552†	16.3	-54.4	-0.4632 ug/L	-0.4632 ppb	09:07:02
3	Ti 334.940†	-1060.3	29.7	0.0458 ug/L	0.0458 ppb	09:08:34
3	Tl 190.801†	-17.4	7.8	3.0052 ug/L	3.0052 ppb	09:08:54
3	U 409.014†	-1974.0	73.7	2.1665 ug/L	2.1665 ppb	09:08:29
3	V 292.402†	-1446.3	-9.6	-0.0670 ug/L	-0.0670 ppb	09:08:34
3	Zn 213.857†	637.9	27.5	0.3266 ug/L	0.3266 ppb	09:08:54
3	SiO2†	553.7	-3.2	-0.2595 ug/L	-0.2595 ppb	09:09:10

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842812.8	100.35 %	0.265			0.26%
Sc Radial	4157.2	103 %	0.9			0.86%
Y 371.029	718296.3	100.31 %	0.284			0.28%
Y RADIAL	4528.4	100.2 %	0.77			0.76%
Ag 328.068†	12.5	0.0588 ug/L	0.12558	0.0588 ppb	0.12558	213.69%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.4	8.9076 ug/L	1.80346	8.9076 ppb	1.80346	20.25%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	8.0	4.2642 ug/L	3.60921	4.2642 ppb	3.60921	84.64%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	618.9	17.014 ug/L	0.5749	17.014 ppb	0.5749	3.38%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.9	0.1021 ug/L	0.10925	0.1021 ppb	0.10925	107.02%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	156.6	0.0638 ug/L	0.07923	0.0638 ppb	0.07923	124.16%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	2.3	4.6113 ug/L	3.35469	4.6113 ppb	3.35469	72.75%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	20.6	0.2915 ug/L	0.07945	0.2915 ppb	0.07945	27.26%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.3	-0.0336 ug/L	0.07721	-0.0336 ppb	0.07721	229.55%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	41.4	0.5381 ug/L	0.13629	0.5381 ppb	0.13629	25.33%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	473.3	1.5335 ug/L	2.04011	1.5335 ppb	2.04011	133.04%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.2	-15.594 ug/L	15.0663	-15.594 ppb	15.0663	96.62%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	287.2	57.332 ug/L	10.2963	57.332 ppb	10.2963	17.96%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.8	36.118 ug/L	52.4434	36.118 ppb	52.4434	145.20%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	2.3	0.0000 ug/L	0.00640	0.0000 ppb	0.00640	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.6	0.6689 ug/L	0.46648	0.6689 ppb	0.46648	69.74%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-4.1	-1.6210 ug/L	16.48610	-1.6210 ppb	16.48610	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-6.3	-0.1973 ug/L	0.11229	-0.1973 ppb	0.11229	56.91%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	0.6	0.1404 ug/L	9.04979	0.1404 ppb	9.04979	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	2.6	0.4045 ug/L	1.00224	0.4045 ppb	1.00224	247.80%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	8.0	13.962 ug/L	11.5504	13.962 ppb	11.5504	82.73%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	8.8	3.8239 ug/L	3.89674	3.8239 ppb	3.89674	101.91%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.2	-0.1752 ug/L	1.04063	-0.1752 ppb	1.04063	594.11%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	43.7	1.6200 ug/L	0.41107	1.6200 ppb	0.41107	25.38%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	16.0	3.5410 ug/L	1.02226	3.5410 ppb	1.02226	28.87%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-38.3	-0.3260 ug/L	0.13526	-0.3260 ppb	0.13526	41.49%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	55.0	0.0919 ug/L	0.08695	0.0919 ppb	0.08695	94.64%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.2	1.2479 ug/L	1.57021	1.2479 ppb	1.57021	125.83%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	20.2	0.5936 ug/L	2.37144	0.5936 ppb	2.37144	399.49%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	42.3	0.3397 ug/L	0.51073	0.3397 ppb	0.51073	150.35%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	35.2	0.4192 ug/L	0.11082	0.4192 ppb	0.11082	26.43%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	30.9	2.4494 ug/L	2.34745	2.4494 ppb	2.34745	95.84%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 15

Sample ID: LR1

Analyst: HSC

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 3/25/2010 09:10:32

Data Type: Reprocessed on 3/25/2010 09:41:54

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	813728.4	813728.4	96.889 %		09:13:42
1	Sc Radial	3974.1	3974.1	98.5 %		09:12:45
1	Y 371.029	690514.6	690514.6	96.431 %		09:13:42
1	Y RADIAL	4373.9	4373.9	96.81 %		09:12:25
1	Ag 328.068†	-23584.8	-24595.5	-3.5614 ug/L	-3.5614 ppb	09:13:42
1	Al 396.153Radial†	-98.7	-20.5	-20.710 ug/L	-20.710 ppb	09:12:45
1	As 188.979†	-164.7	-149.1	11.211 ug/L	11.211 ppb	09:14:02
1	B 249.677†	1547.9	1847.8	-12.425 ug/L	-12.425 ppb	09:13:42
1	Ba 233.527†	-1607.6	-1677.8	-3.7855 ug/L	-3.7855 ppb	09:13:42
1	Be 313.107†	-4108.4	22.4	0.0085 ug/L	0.0085 ppb	09:13:42
1	Ca 317.933Radial†	16.5	-0.4	-0.8592 ug/L	-0.8592 ppb	09:12:45
1	Cd 226.502†	2586.0	2835.4	-0.1742 ug/L	-0.1742 ppb	09:13:42
1	Co 228.616†	601.5	659.7	11.494 ug/L	11.494 ppb	09:14:02
1	Cr 267.716†	-482.6	-593.1	33.533 ug/L	33.533 ppb	09:14:02
1	Cu 324.752†	-1562.7	-7965.6	-5.2748 ug/L	-5.2748 ppb	09:13:42
1	Fe 238.204 Radial†	30654.5	31106.2	388970 ug/L	388970 ppb	09:12:25
1	K 766.490 Radial†	2803.3	42.2	8.4761 ug/L	8.4761 ppb	09:12:25
1	Mg 279.077 IEC†	9.9	9.3	1.0150 ug/L	1.0150 ppb	09:12:45
1	Mn 257.610†	-33860.3	-35399.9	-8.0459 ug/L	-8.0459 ppb	09:13:42
1	Mo 202.031†	-250.5	-272.7	6.2177 ug/L	6.2177 ppb	09:13:42
1	Na 589.592 Radial†	-503.2	-49.9	-19.602 ug/L	-19.602 ppb	09:12:25
1	Ni 231.604†	146.6	57.7	1.7914 ug/L	1.7914 ppb	09:14:02
1	P 214.914†	616.4	467.9	28.141 ug/L	28.141 ppb	09:14:02
1	Pb 220.353†	148.1	211.6	-23.491 ug/L	-23.491 ppb	09:14:02
1	S 181.975 Axial†	41.2	18.1	31.766 ug/L	31.766 ppb	09:14:02
1	Sb 206.836†	23.4	-2.5	-5.7881 ug/L	-5.7881 ppb	09:14:02
1	Se 196.026†	-1715.7	-1753.9	-246.43 ug/L	-246.43 ppb	09:14:02
1	Si 251.611†	-538.1	-1080.9	-39.949 ug/L	-39.949 ppb	09:13:42
1	Sn 189.927†	-14.8	-18.4	-26.397 ug/L	-26.397 ppb	09:14:02
1	Sr 421.552†	88.3	19.6	0.1667 ug/L	0.1667 ppb	09:12:25
1	Ti 334.940†	-1191.6	-146.5	-0.3100 ug/L	-0.3100 ppb	09:13:42
1	Tl 190.801†	-26.6	-2.4	-1.3006 ug/L	-1.3006 ppb	09:14:02
1	U 409.014†	72.3	2109.8	17.752 ug/L	17.752 ppb	09:13:42
1	V 292.402†	4784.9	6366.0	-7.7848 ug/L	-7.7848 ppb	09:13:42
1	Zn 213.857†	3659.8	3170.9	-20.517 ug/L	-20.517 ppb	09:14:02
1	SiO2†	-326.5	-890.3	-70.478 ug/L	-70.478 ppb	09:14:59
2	Sc 361.383	809884.7	809884.7	96.431 %		09:14:08
2	Sc Radial	3952.7	3952.7	98.0 %		09:13:10
2	Y 371.029	687829.0	687829.0	96.055 %		09:14:08
2	Y RADIAL	4460.6	4460.6	98.73 %		09:12:50
2	Ag 328.068†	-23346.6	-24464.0	0.5895 ug/L	0.5895 ppb	09:14:08
2	Al 396.153Radial†	-93.6	-15.9	-15.751 ug/L	-15.751 ppb	09:13:10
2	As 188.979†	-162.6	-147.8	14.585 ug/L	14.585 ppb	09:14:28
2	B 249.677†	1533.5	1840.4	-14.457 ug/L	-14.457 ppb	09:14:08
2	Ba 233.527†	-1680.7	-1761.4	-4.2260 ug/L	-4.2260 ppb	09:14:08
2	Be 313.107†	-4207.6	-100.6	-0.0412 ug/L	-0.0412 ppb	09:14:08
2	Ca 317.933Radial†	14.0	-2.9	-5.8781 ug/L	-5.8781 ppb	09:13:10
2	Cd 226.502†	2626.9	2890.5	-0.5609 ug/L	-0.5609 ppb	09:14:08
2	Co 228.616†	596.5	657.4	11.269 ug/L	11.269 ppb	09:14:28
2	Cr 267.716†	-471.0	-583.4	34.854 ug/L	34.854 ppb	09:14:28
2	Cu 324.752†	-1599.8	-8011.8	-4.8279 ug/L	-4.8279 ppb	09:14:08
2	Fe 238.204 Radial†	31372.7	32007.5	400240 ug/L	400240 ppb	09:12:50
2	K 766.490 Radial†	2722.0	-25.4	-5.0208 ug/L	-5.0208 ppb	09:12:50
2	Mg 279.077 IEC†	8.6	8.0	-68.435 ug/L	-68.435 ppb	09:13:10
2	Mn 257.610†	-33595.8	-35291.5	-6.7881 ug/L	-6.7881 ppb	09:14:08
2	Mo 202.031†	-256.6	-280.3	6.4294 ug/L	6.4294 ppb	09:14:08
2	Na 589.592 Radial†	-478.5	-27.4	-10.763 ug/L	-10.763 ppb	09:12:50
2	Ni 231.604†	188.7	102.1	3.1776 ug/L	3.1776 ppb	09:14:28

2	P 214.914†	621.2	476.0	24.895 ug/L	24.895 ppb	09:14:28
2	Pb 220.353†	147.2	211.5	-25.121 ug/L	-25.121 ppb	09:14:28
2	S 181.975 Axial†	38.8	15.9	27.864 ug/L	27.864 ppb	09:14:28
2	Sb 206.836†	12.9	-13.2	-10.489 ug/L	-10.489 ppb	09:14:28
2	Se 196.026†	-1734.0	-1781.3	-234.90 ug/L	-234.90 ppb	09:14:28
2	Si 251.611†	-460.5	-1003.0	-37.041 ug/L	-37.041 ppb	09:14:08
2	Sn 189.927†	-11.8	-15.3	-26.367 ug/L	-26.367 ppb	09:14:28
2	Sr 421.552†	72.4	3.9	0.0329 ug/L	0.0329 ppb	09:12:50
2	Ti 334.940†	-1124.2	-82.4	-0.1955 ug/L	-0.1955 ppb	09:14:08
2	Tl 190.801†	-34.0	-10.2	-4.3425 ug/L	-4.3425 ppb	09:14:28
2	U 409.014†	57.1	2094.4	16.016 ug/L	16.016 ppb	09:14:08
2	V 292.402†	4828.9	6435.2	-8.9048 ug/L	-8.9048 ppb	09:14:08
2	Zn 213.857†	3700.4	3230.9	-21.499 ug/L	-21.499 ppb	09:14:28
2	SiO2†	-470.1	-1040.9	-82.490 ug/L	-82.490 ppb	09:15:05
3	Sc 361.383	816661.1	816661.1	97.238 %		09:14:34
3	Sc Radial	3919.6	3919.6	97.2 %		09:13:35
3	Y 371.029	692092.9	692092.9	96.651 %		09:14:34
3	Y RADIAL	4441.5	4441.5	98.31 %		09:13:15
3	Ag 328.068†	-23494.3	-24414.9	1.0701 ug/L	1.0701 ppb	09:14:34
3	Al 396.153Radial†	-92.1	-15.1	-14.809 ug/L	-14.809 ppb	09:13:35
3	As 188.979†	-168.2	-152.1	12.438 ug/L	12.438 ppb	09:14:54
3	B 249.677†	1608.2	1904.0	-12.834 ug/L	-12.834 ppb	09:14:34
3	Ba 233.527†	-1781.5	-1850.7	-5.0383 ug/L	-5.0383 ppb	09:14:34
3	Be 313.107†	-4252.8	-110.9	-0.0454 ug/L	-0.0454 ppb	09:14:34
3	Ca 317.933Radial†	14.0	-2.8	-5.6540 ug/L	-5.6540 ppb	09:13:35
3	Cd 226.502†	2614.1	2854.8	-1.1429 ug/L	-1.1429 ppb	09:14:34
3	Co 228.616†	620.9	677.4	11.773 ug/L	11.773 ppb	09:14:54
3	Cr 267.716†	-463.0	-571.1	35.094 ug/L	35.094 ppb	09:14:54
3	Cu 324.752†	-1532.5	-7928.8	-4.5202 ug/L	-4.5202 ppb	09:14:34
3	Fe 238.204 Radial†	31168.2	32067.9	401000 ug/L	401000 ppb	09:13:15
3	K 766.490 Radial†	2898.0	179.3	35.793 ug/L	35.793 ppb	09:13:15
3	Mg 279.077 IEC†	7.4	7.0	-115.75 ug/L	-115.75 ppb	09:13:35
3	Mn 257.610†	-33692.0	-35101.4	-6.4621 ug/L	-6.4621 ppb	09:14:34
3	Mo 202.031†	-278.6	-300.7	4.6958 ug/L	4.6958 ppb	09:14:34
3	Na 589.592 Radial†	-159.5	296.7	116.52 ug/L	116.52 ppb	09:13:15
3	Ni 231.604†	169.4	80.6	2.5050 ug/L	2.5050 ppb	09:14:54
3	P 214.914†	619.9	469.3	19.373 ug/L	19.373 ppb	09:14:54
3	Pb 220.353†	162.3	225.7	-23.086 ug/L	-23.086 ppb	09:14:54
3	S 181.975 Axial†	38.8	15.5	27.244 ug/L	27.244 ppb	09:14:54
3	Sb 206.836†	20.6	-5.5	-7.2775 ug/L	-7.2775 ppb	09:14:54
3	Se 196.026†	-1734.2	-1766.5	-220.89 ug/L	-220.89 ppb	09:14:54
3	Si 251.611†	-429.5	-967.2	-35.685 ug/L	-35.685 ppb	09:14:34
3	Sn 189.927†	-19.1	-22.7	-28.059 ug/L	-28.059 ppb	09:14:54
3	Sr 421.552†	106.8	39.8	0.3393 ug/L	0.3393 ppb	09:13:15
3	Ti 334.940†	-1143.4	-92.5	-0.2103 ug/L	-0.2103 ppb	09:14:34
3	Tl 190.801†	-20.4	4.1	1.1802 ug/L	1.1802 ppb	09:14:54
3	U 409.014†	150.6	2190.0	18.742 ug/L	18.742 ppb	09:14:34
3	V 292.402†	4931.2	6498.8	-8.5449 ug/L	-8.5449 ppb	09:14:34
3	Zn 213.857†	3664.4	3162.0	-22.426 ug/L	-22.426 ppb	09:14:54
3	SiO2†	-414.8	-980.0	-77.575 ug/L	-77.575 ppb	09:15:10

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813424.7	96.853 %	0.4046			0.42%
Sc Radial	3948.8	97.9 %	0.68			0.70%
Y 371.029	690145.5	96.379 %	0.3010			0.31%
Y RADIAL	4425.3	97.95 %	1.008			1.03%
Ag 328.068†	-24491.5	-0.6339 ug/L	2.54665	-0.6339 ppb	2.54665	401.72%
Al 396.153Radial†	-17.2	-17.090 ug/L	3.1704	-17.090 ppb	3.1704	18.55%
As 188.979†	-149.7	12.745 ug/L	1.7073	12.745 ppb	1.7073	13.40%
B 249.677†	1864.1	-13.239 ug/L	1.0750	-13.239 ppb	1.0750	8.12%
Ba 233.527†	-1763.3	-4.3499 ug/L	0.63551	-4.3499 ppb	0.63551	14.61%
Be 313.107†	-63.0	-0.0260 ug/L	0.02999	-0.0260 ppb	0.02999	115.31%
Ca 317.933Radial†	-2.0	-4.1304 ug/L	2.83518	-4.1304 ppb	2.83518	68.64%
Cd 226.502†	2860.2	-0.6260 ug/L	0.48761	-0.6260 ppb	0.48761	77.89%
Co 228.616†	664.9	11.512 ug/L	0.2527	11.512 ppb	0.2527	2.19%
Cr 267.716†	-582.5	34.494 ug/L	0.8407	34.494 ppb	0.8407	2.44%
Cu 324.752†	-7968.7	-4.8743 ug/L	0.37944	-4.8743 ppb	0.37944	7.78%
Fe 238.204 Radial†	31727.2	396740 ug/L	6735.9	396740 ppb	6735.9	1.70%

K 766.490 Radial†	65.3	13.083 ug/L	20.7933	13.083 ppb	20.7933	158.94%
Mg 279.077 IEC†	8.1	-61.056 ug/L	58.7305	-61.056 ppb	58.7305	96.19%
Mn 257.610†	-35264.2	-7.0987 ug/L	0.83632	-7.0987 ppb	0.83632	11.78%
Mo 202.031†	-284.6	5.7809 ug/L	0.94573	5.7809 ppb	0.94573	16.36%
Na 589.592 Radial†	73.1	28.719 ug/L	76.1669	28.719 ppb	76.1669	265.22%
Ni 231.604†	80.1	2.4913 ug/L	0.69320	2.4913 ppb	0.69320	27.82%
P 214.914†	471.1	24.136 ug/L	4.4332	24.136 ppb	4.4332	18.37%
Pb 220.353†	216.3	-23.899 ug/L	1.0771	-23.899 ppb	1.0771	4.51%
S 181.975 Axial†	16.5	28.958 ug/L	2.4514	28.958 ppb	2.4514	8.47%
Sb 206.836†	-7.1	-7.8514 ug/L	2.40232	-7.8514 ppb	2.40232	30.60%
Se 196.026†	-1767.2	-234.07 ug/L	12.787	-234.07 ppb	12.787	5.46%
Si 251.611†	-1017.0	-37.559 ug/L	2.1785	-37.559 ppb	2.1785	5.80%
Sn 189.927†	-18.8	-26.941 ug/L	0.9686	-26.941 ppb	0.9686	3.60%
Sr 421.552†	21.1	0.1796 ug/L	0.15360	0.1796 ppb	0.15360	85.52%
Ti 334.940†	-107.1	-0.2386 ug/L	0.06226	-0.2386 ppb	0.06226	26.09%
Tl 190.801†	-2.8	-1.4877 ug/L	2.76609	-1.4877 ppb	2.76609	185.94%
U 409.014†	2131.4	17.504 ug/L	1.3797	17.504 ppb	1.3797	7.88%
V 292.402†	6433.3	-8.4115 ug/L	0.57180	-8.4115 ppb	0.57180	6.80%
Zn 213.857†	3187.9	-21.481 ug/L	0.9549	-21.481 ppb	0.9549	4.45%
SiO2†	-970.4	-76.848 ug/L	6.0387	-76.848 ppb	6.0387	7.86%

Sequence No.: 16

Sample ID: LR2

Analyst: HSC

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 3/25/2010 09:17:21

Data Type: Reprocessed on 3/25/2010 09:41:55

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	811391.4	811391.4	96.611 %		09:20:31
1	Sc Radial	4042.9	4042.9	100 %		09:19:34
1	Y 371.029	701031.9	701031.9	97.899 %		09:20:31
1	Y RADIAL	4470.9	4470.9	98.96 %		09:19:14
1	Ag 328.068†	193.6	-53.0	-0.2548 ug/L	-0.2548 ppb	09:20:31
1	Al 396.153Radial†	-68.7	11.1	11.784 ug/L	11.784 ppb	09:19:34
1	As 188.979†	-19.1	1.1	0.5980 ug/L	0.5980 ppb	09:20:51
1	B 249.677†	137.6	392.6	10.787 ug/L	10.787 ppb	09:20:51
1	Ba 233.527†	29.9	12.4	0.1163 ug/L	0.1163 ppb	09:20:51
1	Be 313.107†	-4163.9	-47.3	-0.0195 ug/L	-0.0195 ppb	09:20:31
1	Ca 317.933Radial†	18.4	1.2	2.4138 ug/L	2.4138 ppb	09:19:34
1	Cd 226.502†	-169.5	-9.0	-0.1321 ug/L	-0.1321 ppb	09:20:51
1	Co 228.616†	-42.3	-4.8	-0.1262 ug/L	-0.1262 ppb	09:20:51
1	Cr 267.716†	125.0	34.5	0.4533 ug/L	0.4533 ppb	09:20:51
1	Cu 324.752†	6375.6	246.5	0.8035 ug/L	0.8035 ppb	09:20:31
1	Fe 238.204 Radial†	11.9	2.9	36.360 ug/L	36.360 ppb	09:19:34
1	K 766.490 Radial†	2853.9	44.2	8.8444 ug/L	8.8444 ppb	09:19:14
1	Mg 279.077 IEC†	6.0	5.3	232.75 ug/L	232.75 ppb	09:19:34
1	Mn 257.610†	429.8	-7.5	-0.0158 ug/L	-0.0158 ppb	09:20:51
1	Mo 202.031†	13.3	-0.4	-0.0361 ug/L	-0.0361 ppb	09:20:51
1	Na 589.592 Radial†	-556.2	-94.0	-36.924 ug/L	-36.924 ppb	09:19:14
1	Ni 231.604†	86.1	-4.5	-0.1399 ug/L	-0.1399 ppb	09:20:51
1	P 214.914†	181.5	19.7	13.996 ug/L	13.996 ppb	09:20:51
1	Pb 220.353†	-64.7	-8.2	-1.2392 ug/L	-1.2392 ppb	09:20:51
1	S 181.975 Axial†	31.8	8.6	14.985 ug/L	14.985 ppb	09:20:51
1	Sb 206.836†	11517.4	11894.8	5054.0 ug/L	5054.0 ppb	09:20:31
1	Se 196.026†	-27.1	-11.1	-8.7678 ug/L	-8.7678 ppb	09:20:51
1	Si 251.611†	833.6	337.4	12.564 ug/L	12.564 ppb	09:20:51
1	Sn 189.927†	14.9	12.3	2.7207 ug/L	2.7207 ppb	09:20:51
1	Sr 421.552†	41.0	-29.2	-0.2483 ug/L	-0.2483 ppb	09:19:14
1	Ti 334.940†	-1113.0	-68.7	-0.1353 ug/L	-0.1353 ppb	09:20:31
1	Tl 190.801†	-26.5	-2.3	-0.8937 ug/L	-0.8937 ppb	09:20:51
1	U 409.014†	-2100.2	-138.7	-4.0864 ug/L	-4.0864 ppb	09:20:31
1	V 292.402†	-1446.1	-69.3	-0.5432 ug/L	-0.5432 ppb	09:20:31
1	Zn 213.857†	641.1	57.2	0.6736 ug/L	0.6736 ppb	09:20:51
1	SiO2†	823.2	298.7	23.866 ug/L	23.866 ppb	09:21:47
2	Sc 361.383	815073.0	815073.0	97.049 %		09:20:56
2	Sc Radial	4042.2	4042.2	100 %		09:19:59
2	Y 371.029	704053.1	704053.1	98.321 %		09:20:56
2	Y RADIAL	4456.6	4456.6	98.64 %		09:19:39
2	Ag 328.068†	220.1	-26.6	-0.1403 ug/L	-0.1403 ppb	09:20:56
2	Al 396.153Radial†	-83.7	-3.8	-4.0712 ug/L	-4.0712 ppb	09:19:59
2	As 188.979†	-21.4	-1.2	-0.6435 ug/L	-0.6435 ppb	09:21:16
2	B 249.677†	110.6	364.1	10.013 ug/L	10.013 ppb	09:21:16
2	Ba 233.527†	13.5	-4.6	-0.0438 ug/L	-0.0438 ppb	09:21:16
2	Be 313.107†	-4229.8	-95.7	-0.0390 ug/L	-0.0390 ppb	09:20:56
2	Ca 317.933Radial†	19.1	1.9	3.7770 ug/L	3.7770 ppb	09:19:59
2	Cd 226.502†	-157.8	3.8	0.0554 ug/L	0.0554 ppb	09:21:16
2	Co 228.616†	-45.6	-8.0	-0.2091 ug/L	-0.2091 ppb	09:21:16
2	Cr 267.716†	133.2	42.3	0.5484 ug/L	0.5484 ppb	09:21:16
2	Cu 324.752†	6462.6	306.4	0.9935 ug/L	0.9935 ppb	09:20:56
2	Fe 238.204 Radial†	6.8	-2.2	-27.949 ug/L	-27.949 ppb	09:19:59
2	K 766.490 Radial†	3052.8	243.2	48.556 ug/L	48.556 ppb	09:19:39
2	Mg 279.077 IEC†	4.1	3.4	148.97 ug/L	148.97 ppb	09:19:59
2	Mn 257.610†	466.2	28.0	0.0278 ug/L	0.0278 ppb	09:21:16
2	Mo 202.031†	11.1	-2.8	-0.2473 ug/L	-0.2473 ppb	09:21:16
2	Na 589.592 Radial†	-524.0	-62.0	-24.351 ug/L	-24.351 ppb	09:19:39
2	Ni 231.604†	82.8	-8.3	-0.2585 ug/L	-0.2585 ppb	09:21:16

2	P 214.914†	184.5	21.9	15.605 ug/L	15.605 ppb	09:21:16
2	Pb 220.353†	-63.7	-6.9	-1.0310 ug/L	-1.0310 ppb	09:21:16
2	S 181.975 Axial†	29.4	5.9	10.429 ug/L	10.429 ppb	09:21:16
2	Sb 206.836†	11668.3	11996.4	5097.2 ug/L	5097.2 ppb	09:20:56
2	Se 196.026†	-16.3	0.1	0.0273 ug/L	0.0273 ppb	09:21:16
2	Si 251.611†	827.2	326.9	12.175 ug/L	12.175 ppb	09:21:16
2	Sn 189.927†	14.0	11.3	2.5079 ug/L	2.5079 ppb	09:21:16
2	Sr 421.552†	40.1	-30.0	-0.2553 ug/L	-0.2553 ppb	09:19:39
2	Ti 334.940†	-1086.0	-35.7	-0.0719 ug/L	-0.0719 ppb	09:20:56
2	Tl 190.801†	-18.4	6.1	2.3461 ug/L	2.3461 ppb	09:21:16
2	U 409.014†	-2073.1	-101.0	-2.9701 ug/L	-2.9701 ppb	09:20:56
2	V 292.402†	-1382.9	2.6	0.0174 ug/L	0.0174 ppb	09:20:56
2	Zn 213.857†	652.5	65.9	0.7877 ug/L	0.7877 ppb	09:21:16
2	SiO2†	847.3	319.7	25.552 ug/L	25.552 ppb	09:21:52
3	Sc 361.383	823437.0	823437.0	98.045 %		09:21:22
3	Sc Radial	4027.1	4027.1	99.8 %		09:20:24
3	Y 371.029	712465.2	712465.2	99.496 %		09:21:22
3	Y RADIAL	4568.9	4568.9	101.1 %		09:20:04
3	Ag 328.068†	204.4	-44.9	-0.2307 ug/L	-0.2307 ppb	09:21:22
3	Al 396.153Radial†	-77.7	1.8	1.8277 ug/L	1.8277 ppb	09:20:24
3	As 188.979†	-15.6	4.9	2.6364 ug/L	2.6364 ppb	09:21:42
3	B 249.677†	114.3	366.8	10.085 ug/L	10.085 ppb	09:21:42
3	Ba 233.527†	8.0	-10.4	-0.0985 ug/L	-0.0985 ppb	09:21:42
3	Be 313.107†	-4309.6	-132.9	-0.0541 ug/L	-0.0541 ppb	09:21:22
3	Ca 317.933Radial†	19.4	2.3	4.5815 ug/L	4.5815 ppb	09:20:24
3	Cd 226.502†	-161.2	2.0	0.0296 ug/L	0.0296 ppb	09:21:42
3	Co 228.616†	-47.7	-9.7	-0.2493 ug/L	-0.2493 ppb	09:21:42
3	Cr 267.716†	120.8	28.3	0.3670 ug/L	0.3670 ppb	09:21:42
3	Cu 324.752†	6485.3	261.8	0.8493 ug/L	0.8493 ppb	09:21:22
3	Fe 238.204 Radial†	7.7	-1.3	-16.028 ug/L	-16.028 ppb	09:20:24
3	K 766.490 Radial†	2906.2	107.7	21.521 ug/L	21.521 ppb	09:20:04
3	Mg 279.077 IEC†	1.8	1.1	50.012 ug/L	50.012 ppb	09:20:24
3	Mn 257.610†	436.0	-7.7	-0.0138 ug/L	-0.0138 ppb	09:21:42
3	Mo 202.031†	27.2	13.5	1.1860 ug/L	1.1860 ppb	09:21:42
3	Na 589.592 Radial†	-552.3	-92.4	-36.271 ug/L	-36.271 ppb	09:20:04
3	Ni 231.604†	82.8	-9.2	-0.2869 ug/L	-0.2869 ppb	09:21:42
3	P 214.914†	174.0	9.2	6.4926 ug/L	6.4926 ppb	09:21:42
3	Pb 220.353†	-48.7	9.2	1.3875 ug/L	1.3875 ppb	09:21:42
3	S 181.975 Axial†	28.3	4.4	7.7817 ug/L	7.7817 ppb	09:21:42
3	Sb 206.836†	11787.3	11995.7	5096.9 ug/L	5096.9 ppb	09:21:22
3	Se 196.026†	-27.0	-10.6	-8.4655 ug/L	-8.4655 ppb	09:21:42
3	Si 251.611†	824.1	315.1	11.716 ug/L	11.716 ppb	09:21:42
3	Sn 189.927†	15.6	12.8	2.8341 ug/L	2.8341 ppb	09:21:42
3	Sr 421.552†	39.8	-30.2	-0.2568 ug/L	-0.2568 ppb	09:20:04
3	Ti 334.940†	-1097.7	-36.2	-0.0650 ug/L	-0.0650 ppb	09:21:22
3	Tl 190.801†	-13.8	11.0	4.2456 ug/L	4.2456 ppb	09:21:42
3	U 409.014†	-2070.1	-76.2	-2.2423 ug/L	-2.2423 ppb	09:21:22
3	V 292.402†	-1430.8	-31.8	-0.2298 ug/L	-0.2298 ppb	09:21:22
3	Zn 213.857†	658.3	65.0	0.7751 ug/L	0.7751 ppb	09:21:42
3	SiO2†	842.6	306.0	24.416 ug/L	24.416 ppb	09:21:57

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	816633.8	97.235 %		0.7350				0.76%
Sc Radial	4037.4	100 %		0.2				0.22%
Y 371.029	705850.1	98.572 %		0.8274				0.84%
Y RADIAL	4498.8	99.57 %		1.352				1.36%
Ag 328.068†	-41.5	-0.2086 ug/L		0.06039	-0.2086 ppb		0.06039	28.95%
Al 396.153Radial†	3.0	3.1801 ug/L		8.01356	3.1801 ppb		8.01356	251.99%
As 188.979†	1.6	0.8636 ug/L		1.65602	0.8636 ppb		1.65602	191.75%
B 249.677†	374.5	10.295 ug/L		0.4276	10.295 ppb		0.4276	4.15%
Ba 233.527†	-0.9	-0.0087 ug/L		0.11162	-0.0087 ppb		0.11162	>999.9%
Be 313.107†	-92.0	-0.0375 ug/L		0.01735	-0.0375 ppb		0.01735	46.24%
Ca 317.933Radial†	1.8	3.5908 ug/L		1.09580	3.5908 ppb		1.09580	30.52%
Cd 226.502†	-1.1	-0.0157 ug/L		0.10162	-0.0157 ppb		0.10162	647.20%
Co 228.616†	-7.5	-0.1949 ug/L		0.06278	-0.1949 ppb		0.06278	32.22%
Cr 267.716†	35.0	0.4562 ug/L		0.09075	0.4562 ppb		0.09075	19.89%
Cu 324.752†	271.6	0.8821 ug/L		0.09919	0.8821 ppb		0.09919	11.24%
Fe 238.204 Radial†	-0.2	-2.5393 ug/L		34.21080	-2.5393 ppb		34.21080	>999.9%

K 766.490 Radial†	131.7	26.307 ug/L	20.2838	26.307 ppb	20.2838	77.10%
Mg 279.077 IEC†	3.3	143.91 ug/L	91.472	143.91 ppb	91.472	63.56%
Mn 257.610†	4.2	-0.0006 ug/L	0.02462	-0.0006 ppb	0.02462	>999.9%
Mo 202.031†	3.4	0.3009 ug/L	0.77380	0.3009 ppb	0.77380	257.19%
Na 589.592 Radial†	-82.8	-32.516 ug/L	7.0780	-32.516 ppb	7.0780	21.77%
Ni 231.604†	-7.3	-0.2285 ug/L	0.07799	-0.2285 ppb	0.07799	34.14%
P 214.914†	16.9	12.031 ug/L	4.8637	12.031 ppb	4.8637	40.43%
Pb 220.353†	-2.0	-0.2942 ug/L	1.46014	-0.2942 ppb	1.46014	496.23%
S 181.975 Axial†	6.3	11.065 ug/L	3.6437	11.065 ppb	3.6437	32.93%
Sb 206.836†	11962.3	5082.7 ug/L	24.85	5082.7 ppb	24.85	0.49%
Se 196.026†	-7.2	-5.7354 ug/L	4.99290	-5.7354 ppb	4.99290	87.05%
Si 251.611†	326.5	12.152 ug/L	0.4241	12.152 ppb	0.4241	3.49%
Sn 189.927†	12.1	2.6876 ug/L	0.16557	2.6876 ppb	0.16557	6.16%
Sr 421.552†	-29.8	-0.2535 ug/L	0.00452	-0.2535 ppb	0.00452	1.78%
Ti 334.940†	-46.9	-0.0907 ug/L	0.03875	-0.0907 ppb	0.03875	42.71%
Tl 190.801†	4.9	1.8993 ug/L	2.59864	1.8993 ppb	2.59864	136.82%
U 409.014†	-105.3	-3.0996 ug/L	0.92887	-3.0996 ppb	0.92887	29.97%
V 292.402†	-32.9	-0.2519 ug/L	0.28100	-0.2519 ppb	0.28100	111.57%
Zn 213.857†	62.7	0.7455 ug/L	0.06254	0.7455 ppb	0.06254	8.39%
SiO2†	308.2	24.612 ug/L	0.8597	24.612 ppb	0.8597	3.49%

Sequence No.: 17

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 09:24:09

Data Type: Reprocessed on 3/25/2010 09:41:56

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	842149.8	842149.8	100.27 %		09:27:18
1	Sc Radial	3876.8	3876.8	96.1 %		09:26:21
1	Y 371.029	710504.1	710504.1	99.222 %		09:27:18
1	Y RADIAL	4232.1	4232.1	93.67 %		09:26:01
1	Ag 328.068†	100187.7	99661.3	505.58 ug/L	505.58 ppb	09:27:23
1	Al 396.153Radial†	4697.6	4967.5	5270.1 ug/L	5270.1 ppb	09:26:01
1	As 188.979†	900.7	919.1	497.00 ug/L	497.00 ppb	09:27:44
1	B 249.677†	18105.5	18306.3	500.90 ug/L	500.90 ppb	09:27:23
1	Ba 233.527†	53146.0	52982.7	497.94 ug/L	497.94 ppb	09:27:23
1	Be 313.107†	1222307.3	1223239.8	497.76 ug/L	497.76 ppb	09:27:18
1	Ca 317.933Radial†	2504.9	2589.1	5260.4 ug/L	5260.4 ppb	09:26:21
1	Cd 226.502†	35258.6	35328.9	498.15 ug/L	498.15 ppb	09:27:23
1	Co 228.616†	19489.5	19475.3	506.95 ug/L	506.95 ppb	09:27:23
1	Cr 267.716†	38474.4	38274.6	499.36 ug/L	499.36 ppb	09:27:23
1	Cu 324.752†	158871.6	152086.0	493.14 ug/L	493.14 ppb	09:27:23
1	Fe 238.204 Radial†	410.8	418.5	5247.9 ug/L	5247.9 ppb	09:26:21
1	K 766.490 Radial†	27431.6	25739.1	5131.7 ug/L	5131.7 ppb	09:26:01
1	Mg 279.077 IEC†	119.1	123.3	5384.3 ug/L	5384.3 ppb	09:26:21
1	Mn 257.610†	378439.0	376955.5	494.88 ug/L	494.88 ppb	09:27:18
1	Mo 202.031†	5674.8	5645.1	496.77 ug/L	496.77 ppb	09:27:44
1	Na 589.592 Radial†	25199.4	26680.7	10478 ug/L	10478 ppb	09:26:01
1	Ni 231.604†	16322.6	16184.5	505.06 ug/L	505.06 ppb	09:27:23
1	P 214.914†	3543.1	3365.2	2322.7 ug/L	2322.7 ppb	09:27:44
1	Pb 220.353†	3184.3	3234.5	489.09 ug/L	489.09 ppb	09:27:44
1	S 181.975 Axial†	585.9	559.9	980.40 ug/L	980.40 ppb	09:27:44
1	Sb 206.836†	1222.5	1192.5	524.54 ug/L	524.54 ppb	09:27:44
1	Se 196.026†	595.4	610.7	505.73 ug/L	505.73 ppb	09:27:44
1	Si 251.611†	67602.9	66893.2	2484.5 ug/L	2484.5 ppb	09:27:23
1	Sn 189.927†	2248.3	2239.1	496.55 ug/L	496.55 ppb	09:27:44
1	Sr 421.552†	58335.2	60627.4	516.24 ug/L	516.24 ppb	09:26:01
1	Ti 334.940†	286177.7	286481.4	492.76 ug/L	492.76 ppb	09:27:23
1	Tl 190.801†	1240.4	1262.1	491.28 ug/L	491.28 ppb	09:27:44
1	U 409.014†	15255.0	17248.6	505.82 ug/L	505.82 ppb	09:27:23
1	V 292.402†	63159.2	64414.7	503.19 ug/L	503.19 ppb	09:27:23
1	Zn 213.857†	42617.1	41894.5	493.03 ug/L	493.03 ppb	09:27:23
1	SiO2†	66609.2	65874.4	5249.5 ug/L	5249.5 ppb	09:28:51
2	Sc 361.383	835022.8	835022.8	99.425 %		09:27:49
2	Sc Radial	4017.5	4017.5	99.6 %		09:26:46
2	Y 371.029	703671.4	703671.4	98.268 %		09:27:49
2	Y RADIAL	4350.9	4350.9	96.30 %		09:26:26
2	Ag 328.068†	100137.4	100463.6	509.59 ug/L	509.59 ppb	09:27:55
2	Al 396.153Radial†	4582.3	4680.5	4963.9 ug/L	4963.9 ppb	09:26:26
2	As 188.979†	914.4	940.6	508.51 ug/L	508.51 ppb	09:28:15
2	B 249.677†	18082.5	18437.3	504.52 ug/L	504.52 ppb	09:27:55
2	Ba 233.527†	52876.3	53163.8	499.64 ug/L	499.64 ppb	09:27:55
2	Be 313.107†	1209832.9	1221097.3	496.90 ug/L	496.90 ppb	09:27:49
2	Ca 317.933Radial†	2507.6	2500.6	5080.5 ug/L	5080.5 ppb	09:26:46
2	Cd 226.502†	35210.9	35581.1	501.73 ug/L	501.73 ppb	09:27:55
2	Co 228.616†	19388.8	19539.9	508.64 ug/L	508.64 ppb	09:27:55
2	Cr 267.716†	38295.9	38422.6	501.27 ug/L	501.27 ppb	09:27:55
2	Cu 324.752†	158733.4	153299.3	497.07 ug/L	497.07 ppb	09:27:55
2	Fe 238.204 Radial†	412.8	405.5	5085.6 ug/L	5085.6 ppb	09:26:46
2	K 766.490 Radial†	26720.2	24025.3	4789.9 ug/L	4789.9 ppb	09:26:26
2	Mg 279.077 IEC†	119.7	119.5	5221.0 ug/L	5221.0 ppb	09:26:46
2	Mn 257.610†	375906.2	377629.3	495.76 ug/L	495.76 ppb	09:27:49
2	Mo 202.031†	5692.9	5711.6	502.60 ug/L	502.60 ppb	09:28:15
2	Na 589.592 Radial†	24588.2	25148.8	9876.3 ug/L	9876.3 ppb	09:26:26
2	Ni 231.604†	16277.8	16278.4	507.99 ug/L	507.99 ppb	09:27:55

2	P 214.914†	3604.7	3457.3	2388.2 ug/L	2388.2 ppb	09:28:15
2	Pb 220.353†	3242.2	3319.7	501.91 ug/L	501.91 ppb	09:28:15
2	S 181.975 Axial†	591.5	570.6	999.20 ug/L	999.20 ppb	09:28:15
2	Sb 206.836†	1216.4	1196.8	526.64 ug/L	526.64 ppb	09:28:15
2	Se 196.026†	604.0	624.4	516.10 ug/L	516.10 ppb	09:28:15
2	Si 251.611†	67573.9	67439.5	2504.8 ug/L	2504.8 ppb	09:27:55
2	Sn 189.927†	2270.4	2280.5	505.69 ug/L	505.69 ppb	09:28:15
2	Sr 421.552†	56763.9	56924.1	484.70 ug/L	484.70 ppb	09:26:26
2	Ti 334.940†	285671.3	288407.9	496.06 ug/L	496.06 ppb	09:27:55
2	Tl 190.801†	1243.7	1276.0	496.67 ug/L	496.67 ppb	09:28:15
2	U 409.014†	15228.0	17351.3	508.85 ug/L	508.85 ppb	09:27:55
2	V 292.402†	62972.0	64763.9	505.98 ug/L	505.98 ppb	09:27:55
2	Zn 213.857†	42568.7	42208.6	496.76 ug/L	496.76 ppb	09:27:55
2	SiO2†	66967.8	66802.0	5323.5 ug/L	5323.5 ppb	09:28:56
3	Sc 361.383	839934.4	839934.4	100.01 %		09:28:20
3	Sc Radial	4001.2	4001.2	99.2 %		09:27:11
3	Y 371.029	707199.1	707199.1	98.761 %		09:28:20
3	Y RADIAL	4478.9	4478.9	99.13 %		09:26:51
3	Ag 328.068†	100983.2	100720.3	510.89 ug/L	510.89 ppb	09:28:26
3	Al 396.153Radial†	4678.4	4796.2	5087.6 ug/L	5087.6 ppb	09:26:51
3	As 188.979†	888.1	908.9	491.55 ug/L	491.55 ppb	09:28:46
3	B 249.677†	18219.0	18467.4	505.34 ug/L	505.34 ppb	09:28:26
3	Ba 233.527†	53217.4	53193.9	499.92 ug/L	499.92 ppb	09:28:26
3	Be 313.107†	1218964.4	1223112.3	497.71 ug/L	497.71 ppb	09:28:20
3	Ca 317.933Radial†	2492.7	2495.9	5071.1 ug/L	5071.1 ppb	09:27:11
3	Cd 226.502†	35336.1	35499.2	500.57 ug/L	500.57 ppb	09:28:26
3	Co 228.616†	19513.6	19550.6	508.91 ug/L	508.91 ppb	09:28:26
3	Cr 267.716†	38557.3	38458.7	501.74 ug/L	501.74 ppb	09:28:26
3	Cu 324.752†	160106.4	153738.5	498.49 ug/L	498.49 ppb	09:28:26
3	Fe 238.204 Radial†	411.7	406.0	5092.6 ug/L	5092.6 ppb	09:27:11
3	K 766.490 Radial†	27573.3	24995.2	4983.4 ug/L	4983.4 ppb	09:26:51
3	Mg 279.077 IEC†	116.7	117.0	5109.1 ug/L	5109.1 ppb	09:27:11
3	Mn 257.610†	378470.2	377982.1	496.22 ug/L	496.22 ppb	09:28:20
3	Mo 202.031†	5643.4	5628.6	495.30 ug/L	495.30 ppb	09:28:46
3	Na 589.592 Radial†	25249.8	25916.8	10178 ug/L	10178 ppb	09:26:51
3	Ni 231.604†	16381.6	16286.5	508.24 ug/L	508.24 ppb	09:28:26
3	P 214.914†	3538.4	3369.8	2325.0 ug/L	2325.0 ppb	09:28:46
3	Pb 220.353†	3178.8	3237.4	489.50 ug/L	489.50 ppb	09:28:46
3	S 181.975 Axial†	588.8	564.4	988.27 ug/L	988.27 ppb	09:28:46
3	Sb 206.836†	1201.5	1174.8	517.00 ug/L	517.00 ppb	09:28:46
3	Se 196.026†	590.7	607.6	502.69 ug/L	502.69 ppb	09:28:46
3	Si 251.611†	67953.2	67421.4	2504.2 ug/L	2504.2 ppb	09:28:26
3	Sn 189.927†	2247.8	2244.5	497.73 ug/L	497.73 ppb	09:28:46
3	Sr 421.552†	58410.3	58817.1	500.82 ug/L	500.82 ppb	09:26:51
3	Ti 334.940†	287466.5	288522.7	496.26 ug/L	496.26 ppb	09:28:26
3	Tl 190.801†	1237.3	1262.3	491.37 ug/L	491.37 ppb	09:28:46
3	U 409.014†	15273.1	17306.9	507.55 ug/L	507.55 ppb	09:28:26
3	V 292.402†	63372.3	64793.8	506.10 ug/L	506.10 ppb	09:28:26
3	Zn 213.857†	42806.5	42196.1	496.61 ug/L	496.61 ppb	09:28:26
3	SiO2†	66239.9	65680.3	5234.1 ug/L	5234.1 ppb	09:29:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	839035.7	99.902 %	0.4343			0.43%
Sc Radial	3965.2	98.3 %	1.91			1.94%
Y 371.029	707124.9	98.750 %	0.4772			0.48%
Y RADIAL	4354.0	96.37 %	2.732			2.83%
Ag 328.068†	100281.7	508.69 ug/L	2.765	508.69 ppb	2.765	0.54%
QC value within limits for Ag 328.068 Recovery = 101.74%						
Al 396.153Radial†	4814.7	5107.2 ug/L	154.03	5107.2 ppb	154.03	3.02%
QC value within limits for Al 396.153Radial Recovery = 102.14%						
As 188.979†	922.8	499.02 ug/L	8.657	499.02 ppb	8.657	1.73%
QC value within limits for As 188.979 Recovery = 99.80%						
B 249.677†	18403.7	503.59 ug/L	2.366	503.59 ppb	2.366	0.47%
QC value within limits for B 249.677 Recovery = 100.72%						
Ba 233.527†	53113.5	499.16 ug/L	1.072	499.16 ppb	1.072	0.21%
QC value within limits for Ba 233.527 Recovery = 99.83%						
Be 313.107†	1222483.2	497.46 ug/L	0.486	497.46 ppb	0.486	0.10%
QC value within limits for Be 313.107 Recovery = 99.49%						

Ca 317.933Radial†	2528.5	5137.3 ug/L	106.70	5137.3 ppb	106.70	2.08%
QC value within limits for Ca 317.933Radial Recovery = 102.75%						
Cd 226.502†	35469.8	500.15 ug/L	1.825	500.15 ppb	1.825	0.36%
QC value within limits for Cd 226.502 Recovery = 100.03%						
Co 228.616†	19521.9	508.17 ug/L	1.060	508.17 ppb	1.060	0.21%
QC value within limits for Co 228.616 Recovery = 101.63%						
Cr 267.716†	38385.3	500.79 ug/L	1.262	500.79 ppb	1.262	0.25%
QC value within limits for Cr 267.716 Recovery = 100.16%						
Cu 324.752†	153041.3	496.23 ug/L	2.770	496.23 ppb	2.770	0.56%
QC value within limits for Cu 324.752 Recovery = 99.25%						
Fe 238.204 Radial†	410.0	5142.1 ug/L	91.75	5142.1 ppb	91.75	1.78%
QC value within limits for Fe 238.204 Radial Recovery = 102.84%						
K 766.490 Radial†	24919.9	4968.3 ug/L	171.42	4968.3 ppb	171.42	3.45%
QC value within limits for K 766.490 Radial Recovery = 99.37%						
Mg 279.077 IEC†	119.9	5238.1 ug/L	138.37	5238.1 ppb	138.37	2.64%
QC value within limits for Mg 279.077 IEC Recovery = 104.76%						
Mn 257.610†	377522.3	495.62 ug/L	0.682	495.62 ppb	0.682	0.14%
QC value within limits for Mn 257.610 Recovery = 99.12%						
Mo 202.031†	5661.8	498.23 ug/L	3.860	498.23 ppb	3.860	0.77%
QC value within limits for Mo 202.031 Recovery = 99.65%						
Na 589.592 Radial†	25915.5	10177 ug/L	300.8	10177 ppb	300.8	2.96%
QC value within limits for Na 589.592 Radial Recovery = 101.77%						
Ni 231.604†	16249.8	507.09 ug/L	1.769	507.09 ppb	1.769	0.35%
QC value within limits for Ni 231.604 Recovery = 101.42%						
P 214.914†	3397.5	2345.3 ug/L	37.18	2345.3 ppb	37.18	1.59%
QC value within limits for P 214.914 Recovery = 93.81%						
Pb 220.353†	3263.9	493.50 ug/L	7.288	493.50 ppb	7.288	1.48%
QC value within limits for Pb 220.353 Recovery = 98.70%						
S 181.975 Axial†	564.9	989.29 ug/L	9.441	989.29 ppb	9.441	0.95%
QC value within limits for S 181.975 Axial Recovery = 98.93%						
Sb 206.836†	1188.0	522.73 ug/L	5.071	522.73 ppb	5.071	0.97%
QC value within limits for Sb 206.836 Recovery = 104.55%						
Se 196.026†	614.2	508.17 ug/L	7.029	508.17 ppb	7.029	1.38%
QC value within limits for Se 196.026 Recovery = 101.63%						
Si 251.611†	67251.4	2497.9 ug/L	11.54	2497.9 ppb	11.54	0.46%
QC value within limits for Si 251.611 Recovery = 99.91%						
Sn 189.927†	2254.7	499.99 ug/L	4.971	499.99 ppb	4.971	0.99%
QC value within limits for Sn 189.927 Recovery = 100.00%						
Sr 421.552†	58789.5	500.59 ug/L	15.769	500.59 ppb	15.769	3.15%
QC value within limits for Sr 421.552 Recovery = 100.12%						
Ti 334.940†	287804.0	495.03 ug/L	1.968	495.03 ppb	1.968	0.40%
QC value within limits for Ti 334.940 Recovery = 99.01%						
Tl 190.801†	1266.8	493.11 ug/L	3.086	493.11 ppb	3.086	0.63%
QC value within limits for Tl 190.801 Recovery = 98.62%						
U 409.014†	17302.2	507.41 ug/L	1.522	507.41 ppb	1.522	0.30%
QC value within limits for U 409.014 Recovery = 101.48%						
V 292.402†	64657.5	505.09 ug/L	1.651	505.09 ppb	1.651	0.33%
QC value within limits for V 292.402 Recovery = 101.02%						
Zn 213.857†	42099.7	495.47 ug/L	2.112	495.47 ppb	2.112	0.43%
QC value within limits for Zn 213.857 Recovery = 99.09%						
SiO2†	66118.9	5269.0 ug/L	47.79	5269.0 ppb	47.79	0.91%
QC value within limits for SiO2 Recovery = 98.53%						
All analyte(s) passed QC.						

Sequence No.: 18

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/25/2010 09:31:11

Data Type: Reprocessed on 3/25/2010 09:41:58

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	848278.8	848278.8	101.00 %		09:34:21
1	Sc Radial	4125.2	4125.2	102 %		09:33:04
1	Y 371.029	723772.8	723772.8	101.08 %		09:34:21
1	Y RADIAL	4481.7	4481.7	99.20 %		09:33:04
1	Ag 328.068†	240.1	-15.7	-0.0889 ug/L	-0.0889 ppb	09:34:26
1	Al 396.153Radial†	-80.5	0.9	0.9744 ug/L	0.9744 ppb	09:33:24
1	As 188.979†	-26.1	-5.0	-2.6869 ug/L	-2.6869 ppb	09:34:46
1	B 249.677†	100.6	349.8	9.6178 ug/L	9.6178 ppb	09:34:46
1	Ba 233.527†	19.9	1.2	0.0107 ug/L	0.0107 ppb	09:34:46
1	Be 313.107†	-4209.2	95.3	0.0389 ug/L	0.0389 ppb	09:34:26
1	Ca 317.933Radial†	17.2	-0.4	-0.8031 ug/L	-0.8031 ppb	09:33:24
1	Cd 226.502†	-156.7	11.2	0.1614 ug/L	0.1614 ppb	09:34:46
1	Co 228.616†	-49.0	-9.6	-0.2495 ug/L	-0.2495 ppb	09:34:46
1	Cr 267.716†	129.6	33.3	0.4299 ug/L	0.4299 ppb	09:34:46
1	Cu 324.752†	6452.3	35.5	0.1104 ug/L	0.1104 ppb	09:34:26
1	Fe 238.204 Radial†	8.1	-1.1	-13.391 ug/L	-13.391 ppb	09:33:24
1	K 766.490 Radial†	2783.5	-81.4	-16.247 ug/L	-16.247 ppb	09:33:04
1	Mg 279.077 IEC†	2.1	1.4	61.000 ug/L	61.000 ppb	09:33:24
1	Mn 257.610†	481.5	24.3	0.0281 ug/L	0.0281 ppb	09:34:46
1	Mo 202.031†	13.2	-1.2	-0.1024 ug/L	-0.1024 ppb	09:34:46
1	Na 589.592 Radial†	-509.3	-37.1	-14.570 ug/L	-14.570 ppb	09:33:04
1	Ni 231.604†	106.6	11.9	0.3729 ug/L	0.3729 ppb	09:34:46
1	P 214.914†	178.2	8.2	5.9153 ug/L	5.9153 ppb	09:34:46
1	Pb 220.353†	-49.3	10.0	1.5158 ug/L	1.5158 ppb	09:34:46
1	S 181.975 Axial†	32.2	7.5	13.097 ug/L	13.097 ppb	09:34:46
1	Sb 206.836†	37.0	10.0	4.2859 ug/L	4.2859 ppb	09:34:46
1	Se 196.026†	-19.7	-2.6	-2.0829 ug/L	-2.0829 ppb	09:34:46
1	Si 251.611†	534.3	3.6	0.1350 ug/L	0.1350 ppb	09:34:46
1	Sn 189.927†	13.5	10.3	2.2854 ug/L	2.2854 ppb	09:34:46
1	Sr 421.552†	33.4	-37.4	-0.3181 ug/L	-0.3181 ppb	09:33:04
1	Ti 334.940†	-1032.5	61.1	0.0967 ug/L	0.0967 ppb	09:34:26
1	Tl 190.801†	-15.2	10.0	3.8863 ug/L	3.8863 ppb	09:34:46
1	U 409.014†	-1810.2	243.0	7.1498 ug/L	7.1498 ppb	09:34:21
1	V 292.402†	-1436.0	5.8	0.0599 ug/L	0.0599 ppb	09:34:26
1	Zn 213.857†	618.9	6.3	0.0743 ug/L	0.0743 ppb	09:34:46
1	SiO2†	545.9	-12.9	-1.0272 ug/L	-1.0272 ppb	09:35:52
2	Sc 361.383	832068.6	832068.6	99.073 %		09:34:51
2	Sc Radial	4161.2	4161.2	103 %		09:33:29
2	Y 371.029	709818.4	709818.4	99.126 %		09:34:51
2	Y RADIAL	4535.5	4535.5	100.4 %		09:33:29
2	Ag 328.068†	228.6	-22.7	-0.1121 ug/L	-0.1121 ppb	09:34:56
2	Al 396.153Radial†	-80.3	1.8	1.9358 ug/L	1.9358 ppb	09:33:49
2	As 188.979†	-16.5	4.2	2.2203 ug/L	2.2203 ppb	09:35:16
2	B 249.677†	76.2	327.0	8.9898 ug/L	8.9898 ppb	09:35:16
2	Ba 233.527†	22.7	4.5	0.0428 ug/L	0.0428 ppb	09:35:16
2	Be 313.107†	-4269.0	-46.2	-0.0192 ug/L	-0.0192 ppb	09:34:56
2	Ca 317.933Radial†	17.6	-0.1	-0.2945 ug/L	-0.2945 ppb	09:33:49
2	Cd 226.502†	-170.3	-5.5	-0.0778 ug/L	-0.0778 ppb	09:35:16
2	Co 228.616†	-28.6	10.1	0.2635 ug/L	0.2635 ppb	09:35:16
2	Cr 267.716†	117.9	24.0	0.3141 ug/L	0.3141 ppb	09:35:16
2	Cu 324.752†	6494.4	202.4	0.6573 ug/L	0.6573 ppb	09:34:56
2	Fe 238.204 Radial†	8.7	-0.5	-6.7950 ug/L	-6.7950 ppb	09:33:49
2	K 766.490 Radial†	2824.4	-65.3	-13.026 ug/L	-13.026 ppb	09:33:29
2	Mg 279.077 IEC†	-2.1	-2.7	-118.02 ug/L	-118.02 ppb	09:33:49
2	Mn 257.610†	450.9	2.7	0.0077 ug/L	0.0077 ppb	09:35:16
2	Mo 202.031†	19.7	5.7	0.4995 ug/L	0.4995 ppb	09:35:16
2	Na 589.592 Radial†	-599.4	-120.1	-47.177 ug/L	-47.177 ppb	09:33:29
2	Ni 231.604†	87.0	-5.8	-0.1806 ug/L	-0.1806 ppb	09:35:16

2	P 214.914†	181.4	14.9	10.579 ug/L	10.579 ppb	09:35:16
2	Pb 220.353†	-58.3	0.0	0.0038 ug/L	0.0038 ppb	09:35:16
2	S 181.975 Axial†	26.5	2.4	4.1680 ug/L	4.1680 ppb	09:35:16
2	Sb 206.836†	30.6	4.3	1.8575 ug/L	1.8575 ppb	09:35:16
2	Se 196.026†	-13.8	3.1	2.4276 ug/L	2.4276 ppb	09:35:16
2	Si 251.611†	549.6	29.3	1.0849 ug/L	1.0849 ppb	09:35:16
2	Sn 189.927†	10.6	7.6	1.6930 ug/L	1.6930 ppb	09:35:16
2	Sr 421.552†	6.7	-63.6	-0.5414 ug/L	-0.5414 ppb	09:33:29
2	Ti 334.940†	-1186.9	-114.7	-0.1867 ug/L	-0.1867 ppb	09:34:56
2	Tl 190.801†	-18.6	6.3	2.4233 ug/L	2.4233 ppb	09:35:16
2	U 409.014†	-2097.9	-82.4	-2.4231 ug/L	-2.4231 ppb	09:34:51
2	V 292.402†	-1337.7	77.3	0.5975 ug/L	0.5975 ppb	09:34:56
2	Zn 213.857†	614.8	14.1	0.1686 ug/L	0.1686 ppb	09:35:16
2	SiO2†	568.2	20.1	1.5953 ug/L	1.5953 ppb	09:35:57
3	Sc 361.383	842673.4	842673.4	100.34 %		09:35:21
3	Sc Radial	4163.8	4163.8	103 %		09:33:54
3	Y 371.029	718038.8	718038.8	100.27 %		09:35:21
3	Y RADIAL	4507.2	4507.2	99.76 %		09:33:54
3	Ag 328.068†	297.0	42.6	0.2047 ug/L	0.2047 ppb	09:35:26
3	Al 396.153Radial†	-73.0	8.9	9.4651 ug/L	9.4651 ppb	09:34:14
3	As 188.979†	-19.1	1.8	0.9626 ug/L	0.9626 ppb	09:35:46
3	B 249.677†	90.9	340.7	9.3707 ug/L	9.3707 ppb	09:35:46
3	Ba 233.527†	30.1	11.5	0.1071 ug/L	0.1071 ppb	09:35:46
3	Be 313.107†	-4139.1	137.5	0.0565 ug/L	0.0565 ppb	09:35:26
3	Ca 317.933Radial†	25.1	7.2	14.531 ug/L	14.531 ppb	09:34:14
3	Cd 226.502†	-153.2	13.7	0.1966 ug/L	0.1966 ppb	09:35:46
3	Co 228.616†	-36.7	2.3	0.0605 ug/L	0.0605 ppb	09:35:46
3	Cr 267.716†	114.0	18.7	0.2399 ug/L	0.2399 ppb	09:35:46
3	Cu 324.752†	6509.3	134.8	0.4351 ug/L	0.4351 ppb	09:35:26
3	Fe 238.204 Radial†	6.9	-2.3	-28.904 ug/L	-28.904 ppb	09:34:14
3	K 766.490 Radial†	2842.3	-49.6	-9.8947 ug/L	-9.8947 ppb	09:33:54
3	Mg 279.077 IEC†	2.2	1.5	64.176 ug/L	64.176 ppb	09:34:14
3	Mn 257.610†	442.5	-11.4	-0.0205 ug/L	-0.0205 ppb	09:35:46
3	Mo 202.031†	13.6	-0.6	-0.0566 ug/L	-0.0566 ppb	09:35:46
3	Na 589.592 Radial†	-580.7	-101.7	-39.954 ug/L	-39.954 ppb	09:33:54
3	Ni 231.604†	86.9	-7.0	-0.2193 ug/L	-0.2193 ppb	09:35:46
3	P 214.914†	174.7	5.9	4.2229 ug/L	4.2229 ppb	09:35:46
3	Pb 220.353†	-45.4	13.5	2.0466 ug/L	2.0466 ppb	09:35:46
3	S 181.975 Axial†	26.0	1.5	2.6231 ug/L	2.6231 ppb	09:35:46
3	Sb 206.836†	40.6	13.9	5.9065 ug/L	5.9065 ppb	09:35:46
3	Se 196.026†	-21.2	-4.2	-3.4053 ug/L	-3.4053 ppb	09:35:46
3	Si 251.611†	524.4	-2.8	-0.1030 ug/L	-0.1030 ppb	09:35:46
3	Sn 189.927†	7.7	4.6	1.0298 ug/L	1.0298 ppb	09:35:46
3	Sr 421.552†	31.5	-39.5	-0.3369 ug/L	-0.3369 ppb	09:33:54
3	Ti 334.940†	-904.1	182.2	0.3098 ug/L	0.3098 ppb	09:35:26
3	Tl 190.801†	-26.8	-1.7	-0.6489 ug/L	-0.6489 ppb	09:35:46
3	U 409.014†	-2012.1	29.8	0.8801 ug/L	0.8801 ppb	09:35:21
3	V 292.402†	-1432.4	-0.1	0.0054 ug/L	0.0054 ppb	09:35:26
3	Zn 213.857†	615.7	7.2	0.0911 ug/L	0.0911 ppb	09:35:46
3	SiO2†	579.7	24.4	1.9536 ug/L	1.9536 ppb	09:36:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	841006.9	100.14 %		0.980				0.98%
Sc Radial	4150.1	103 %		0.5				0.52%
Y 371.029	717210.0	100.16 %		0.980				0.98%
Y RADIAL	4508.1	99.78 %		0.596				0.60%
Ag 328.068†	1.4	0.0012 ug/L		0.17660	0.0012 ppb		0.17660	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.9	4.1251 ug/L		4.64950	4.1251 ppb		4.64950	112.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.3	0.1653 ug/L		2.54893	0.1653 ppb		2.54893	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	339.2	9.3261 ug/L		0.31636	9.3261 ppb		0.31636	3.39%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.7	0.0535 ug/L		0.04906	0.0535 ppb		0.04906	91.63%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	62.2	0.0254 ug/L		0.03963	0.0254 ppb		0.03963	155.93%
QC value within limits for Be 313.107 Recovery = Not calculated								

Ca 317.933Radial†	2.2	4.4779 ug/L	8.71015	4.4779 ppb	8.71015	194.52%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	6.5	0.0934 ug/L	0.14930	0.0934 ppb	0.14930	159.79%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.9	0.0248 ug/L	0.25834	0.0248 ppb	0.25834	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	25.4	0.3279 ug/L	0.09577	0.3279 ppb	0.09577	29.20%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	124.2	0.4009 ug/L	0.27505	0.4009 ppb	0.27505	68.60%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.3	-16.363 ug/L	11.3500	-16.363 ppb	11.3500	69.36%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-65.5	-13.056 ug/L	3.1764	-13.056 ppb	3.1764	24.33%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.1	2.3848 ug/L	104.28697	2.3848 ppb	104.28697	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	5.2	0.0051 ug/L	0.02439	0.0051 ppb	0.02439	479.23%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.3	0.1135 ug/L	0.33504	0.1135 ppb	0.33504	295.20%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-86.3	-33.900 ug/L	17.1255	-33.900 ppb	17.1255	50.52%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-0.3	-0.0090 ug/L	0.33128	-0.0090 ppb	0.33128	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	9.7	6.9058 ug/L	3.29189	6.9058 ppb	3.29189	47.67%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	7.9	1.1887 ug/L	1.05994	1.1887 ppb	1.05994	89.17%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.8	6.6295 ug/L	5.65438	6.6295 ppb	5.65438	85.29%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	9.4	4.0166 ug/L	2.03790	4.0166 ppb	2.03790	50.74%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.2	-1.0202 ug/L	3.05824	-1.0202 ppb	3.05824	299.77%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	10.0	0.3723 ug/L	0.62850	0.3723 ppb	0.62850	168.82%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	7.5	1.6694 ug/L	0.62814	1.6694 ppb	0.62814	37.63%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-46.8	-0.3988 ug/L	0.12388	-0.3988 ppb	0.12388	31.06%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	42.9	0.0732 ug/L	0.24910	0.0732 ppb	0.24910	340.08%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	4.9	1.8869 ug/L	2.31468	1.8869 ppb	2.31468	122.67%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	63.5	1.8689 ug/L	4.86248	1.8689 ppb	4.86248	260.17%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	27.7	0.2210 ug/L	0.32723	0.2210 ppb	0.32723	148.10%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	9.2	0.1113 ug/L	0.05033	0.1113 ppb	0.05033	45.22%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	10.6	0.8405 ug/L	1.62741	0.8405 ppb	1.62741	193.61%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 4

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 10:14:45

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	4136.6	4136.6	103 %		10:16:37
1	Y RADIAL	4464.2	4464.2	98.81 %		10:16:37
1	Al 396.153Radial†	4619.7	4584.5	4862.0 ug/L	4862.0 ppb	10:16:37
1	Ca 317.933Radial†	2500.1	2420.8	4918.4 ug/L	4918.4 ppb	10:16:57
1	Fe 238.204 Radial†	405.4	386.4	4846.3 ug/L	4846.3 ppb	10:16:57
1	K 766.490 Radial†	27144.4	23666.6	4718.5 ug/L	4718.5 ppb	10:16:37
1	Mg 279.077 IEC†	121.8	118.1	5159.8 ug/L	5159.8 ppb	10:16:57
1	Na 589.592 Radial†	24583.4	24433.4	9595.4 ug/L	9595.4 ppb	10:16:37
1	Sr 421.552†	57229.5	55737.4	474.60 ug/L	474.60 ppb	10:16:37
1	Sc 361.383	850739.0	850739.0	101.30 %		10:17:54
1	Y 371.029	717689.5	717689.5	100.23 %		10:17:54
1	Ag 328.068†	100375.4	98837.9	501.30 ug/L	501.30 ppb	10:18:00
1	As 188.979†	910.1	919.2	496.98 ug/L	496.98 ppb	10:18:20
1	B 249.677†	17771.6	17794.4	486.90 ug/L	486.90 ppb	10:18:00
1	Ba 233.527†	53106.8	52408.9	492.54 ug/L	492.54 ppb	10:18:00
1	Be 313.107†	1229321.6	1217857.5	495.56 ug/L	495.56 ppb	10:17:54
1	Cd 226.502†	35341.3	35055.6	494.33 ug/L	494.33 ppb	10:18:00
1	Co 228.616†	19507.9	19297.2	502.33 ug/L	502.33 ppb	10:18:00
1	Cr 267.716†	38591.8	38003.1	495.78 ug/L	495.78 ppb	10:18:00
1	Cu 324.752†	158722.6	150339.3	487.46 ug/L	487.46 ppb	10:18:00
1	Mn 257.610†	374711.9	369465.7	485.02 ug/L	485.02 ppb	10:18:00
1	Mo 202.031†	5708.8	5621.6	494.67 ug/L	494.67 ppb	10:18:20
1	Ni 231.604†	16408.3	16104.8	502.57 ug/L	502.57 ppb	10:18:00
1	P 214.914†	3607.1	3392.8	2343.8 ug/L	2343.8 ppb	10:18:20
1	Pb 220.353†	3234.8	3252.3	491.73 ug/L	491.73 ppb	10:18:20
1	S 181.975 Axial†	596.5	564.5	988.61 ug/L	988.61 ppb	10:18:20
1	Sb 206.836†	1208.4	1166.3	513.37 ug/L	513.37 ppb	10:18:20
1	Se 196.026†	611.4	620.5	512.19 ug/L	512.19 ppb	10:18:20
1	Si 251.611†	67576.5	66186.5	2458.2 ug/L	2458.2 ppb	10:18:00
1	Sn 189.927†	2275.6	2243.4	497.46 ug/L	497.46 ppb	10:18:20
1	Ti 334.940†	286494.5	283912.6	488.31 ug/L	488.31 ppb	10:18:00
1	Tl 190.801†	1254.5	1263.6	491.79 ug/L	491.79 ppb	10:18:20
1	U 409.014†	15214.4	17054.9	500.17 ug/L	500.17 ppb	10:18:00
1	V 292.402†	63223.8	63842.5	498.80 ug/L	498.80 ppb	10:18:00
1	Zn 213.857†	42793.2	41639.3	490.08 ug/L	490.08 ppb	10:18:00
1	SiO2†	68236.1	66809.8	5324.3 ug/L	5324.3 ppb	10:19:27
2	Sc Radial	4223.9	4223.9	105 %		10:17:02
2	Y RADIAL	4554.5	4554.5	100.8 %		10:17:02
2	Al 396.153Radial†	4673.5	4542.9	4817.4 ug/L	4817.4 ppb	10:17:02
2	Ca 317.933Radial†	2502.8	2373.0	4821.4 ug/L	4821.4 ppb	10:17:22
2	Fe 238.204 Radial†	413.7	386.1	4842.9 ug/L	4842.9 ppb	10:17:22
2	K 766.490 Radial†	27285.8	23255.0	4636.4 ug/L	4636.4 ppb	10:17:02
2	Mg 279.077 IEC†	117.9	111.9	4887.7 ug/L	4887.7 ppb	10:17:22
2	Na 589.592 Radial†	24639.1	23991.5	9421.8 ug/L	9421.8 ppb	10:17:02
2	Sr 421.552†	57601.5	54939.9	467.81 ug/L	467.81 ppb	10:17:02
2	Sc 361.383	846623.9	846623.9	100.81 %		10:18:25
2	Y 371.029	713264.6	713264.6	99.608 %		10:18:25
2	Ag 328.068†	99089.8	98044.2	497.29 ug/L	497.29 ppb	10:18:30
2	As 188.979†	911.3	924.8	499.91 ug/L	499.91 ppb	10:18:50
2	B 249.677†	17483.8	17594.2	481.41 ug/L	481.41 ppb	10:18:30
2	Ba 233.527†	52588.9	52150.0	490.10 ug/L	490.10 ppb	10:18:30
2	Be 313.107†	1219751.5	1214262.7	494.09 ug/L	494.09 ppb	10:18:25
2	Cd 226.502†	35026.1	34912.5	492.31 ug/L	492.31 ppb	10:18:30
2	Co 228.616†	19301.9	19186.5	499.47 ug/L	499.47 ppb	10:18:30
2	Cr 267.716†	38021.9	37622.9	490.83 ug/L	490.83 ppb	10:18:30
2	Cu 324.752†	156762.0	149156.0	483.63 ug/L	483.63 ppb	10:18:30
2	Mn 257.610†	370891.2	367473.6	482.42 ug/L	482.42 ppb	10:18:30
2	Mo 202.031†	5744.6	5684.5	500.20 ug/L	500.20 ppb	10:18:50
2	Ni 231.604†	16227.6	16004.2	499.43 ug/L	499.43 ppb	10:18:30

2	P 214.914†	3622.9	3425.8	2368.3 ug/L	2368.3 ppb	10:18:50
2	Pb 220.353†	3255.0	3287.8	497.09 ug/L	497.09 ppb	10:18:50
2	S 181.975 Axial†	597.2	568.0	994.73 ug/L	994.73 ppb	10:18:50
2	Sb 206.836†	1210.0	1173.7	516.68 ug/L	516.68 ppb	10:18:50
2	Se 196.026†	602.2	614.3	507.26 ug/L	507.26 ppb	10:18:50
2	Si 251.611†	66865.9	65805.9	2444.0 ug/L	2444.0 ppb	10:18:30
2	Sn 189.927†	2277.0	2255.7	500.18 ug/L	500.18 ppb	10:18:50
2	Ti 334.940†	282951.7	281772.9	484.65 ug/L	484.65 ppb	10:18:30
2	Tl 190.801†	1260.3	1275.3	496.30 ug/L	496.30 ppb	10:18:50
2	U 409.014†	14860.7	16777.1	492.01 ug/L	492.01 ppb	10:18:30
2	V 292.402†	62453.2	63381.4	495.30 ug/L	495.30 ppb	10:18:30
2	Zn 213.857†	42416.3	41470.8	488.11 ug/L	488.11 ppb	10:18:30
2	SiO2†	67761.6	66666.5	5312.7 ug/L	5312.7 ppb	10:19:32
3	Sc Radial	4159.2	4159.2	103 %		10:17:27
3	Y RADIAL	4472.8	4472.8	99.00 %		10:17:27
3	Al 396.153Radial†	4662.4	4601.5	4880.0 ug/L	4880.0 ppb	10:17:27
3	Ca 317.933Radial†	2517.7	2424.6	4926.2 ug/L	4926.2 ppb	10:17:47
3	Fe 238.204 Radial†	410.2	388.8	4877.1 ug/L	4877.1 ppb	10:17:47
3	K 766.490 Radial†	27098.7	23478.8	4681.0 ug/L	4681.0 ppb	10:17:27
3	Mg 279.077 IEC†	120.0	115.7	5053.7 ug/L	5053.7 ppb	10:17:47
3	Na 589.592 Radial†	24561.9	24282.6	9536.1 ug/L	9536.1 ppb	10:17:27
3	Sr 421.552†	57510.1	55706.9	474.34 ug/L	474.34 ppb	10:17:27
3	Sc 361.383	847964.8	847964.8	100.97 %		10:18:56
3	Y 371.029	713785.6	713785.6	99.680 %		10:18:56
3	Ag 328.068†	99561.6	98356.1	498.87 ug/L	498.87 ppb	10:19:01
3	As 188.979†	896.3	908.5	491.21 ug/L	491.21 ppb	10:19:21
3	B 249.677†	17630.8	17712.4	484.65 ug/L	484.65 ppb	10:19:01
3	Ba 233.527†	52703.6	52181.1	490.40 ug/L	490.40 ppb	10:19:01
3	Be 313.107†	1222926.2	1215493.7	494.60 ug/L	494.60 ppb	10:18:56
3	Cd 226.502†	35064.2	34895.2	492.07 ug/L	492.07 ppb	10:19:01
3	Co 228.616†	19365.0	19218.7	500.29 ug/L	500.29 ppb	10:19:01
3	Cr 267.716†	38190.0	37729.8	492.22 ug/L	492.22 ppb	10:19:01
3	Cu 324.752†	157737.8	149876.5	485.96 ug/L	485.96 ppb	10:19:01
3	Mn 257.610†	372102.0	368091.0	483.23 ug/L	483.23 ppb	10:19:01
3	Mo 202.031†	5708.3	5639.5	496.25 ug/L	496.25 ppb	10:19:21
3	Ni 231.604†	16212.7	15964.0	498.18 ug/L	498.18 ppb	10:19:01
3	P 214.914†	3576.7	3374.3	2330.8 ug/L	2330.8 ppb	10:19:21
3	Pb 220.353†	3225.3	3253.3	491.89 ug/L	491.89 ppb	10:19:21
3	S 181.975 Axial†	583.7	553.7	969.63 ug/L	969.63 ppb	10:19:21
3	Sb 206.836†	1198.7	1160.6	511.01 ug/L	511.01 ppb	10:19:21
3	Se 196.026†	604.5	615.7	508.45 ug/L	508.45 ppb	10:19:21
3	Si 251.611†	67124.8	65957.4	2449.7 ug/L	2449.7 ppb	10:19:01
3	Sn 189.927†	2266.4	2241.6	497.07 ug/L	497.07 ppb	10:19:21
3	Ti 334.940†	284395.4	282759.0	486.34 ug/L	486.34 ppb	10:19:01
3	Tl 190.801†	1253.7	1266.8	493.02 ug/L	493.02 ppb	10:19:21
3	U 409.014†	15190.0	17079.9	500.91 ug/L	500.91 ppb	10:19:01
3	V 292.402†	62672.9	63501.0	496.18 ug/L	496.18 ppb	10:19:01
3	Zn 213.857†	42413.8	41401.7	487.29 ug/L	487.29 ppb	10:19:01
3	SiO2†	67910.7	66707.9	5316.1 ug/L	5316.1 ppb	10:19:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848442.6	101.02 %	0.250			0.25%
Sc Radial	4173.2	103 %	1.1			1.09%
Y 371.029	714913.3	99.838 %	0.3377			0.34%
Y RADIAL	4497.2	99.54 %	1.103			1.11%
Ag 328.068†	98412.7	499.15 ug/L	2.020	499.15 ppb	2.020	0.40%
QC value within limits for Ag 328.068 Recovery = 99.83%						
Al 396.153Radial†	4576.3	4853.1 ug/L	32.26	4853.1 ppb	32.26	0.66%
QC value within limits for Al 396.153Radial Recovery = 97.06%						
As 188.979†	917.5	496.03 ug/L	4.424	496.03 ppb	4.424	0.89%
QC value within limits for As 188.979 Recovery = 99.21%						
B 249.677†	17700.3	484.32 ug/L	2.761	484.32 ppb	2.761	0.57%
QC value within limits for B 249.677 Recovery = 96.86%						
Ba 233.527†	52246.7	491.01 ug/L	1.329	491.01 ppb	1.329	0.27%
QC value within limits for Ba 233.527 Recovery = 98.20%						
Be 313.107†	1215871.3	494.75 ug/L	0.746	494.75 ppb	0.746	0.15%
QC value within limits for Be 313.107 Recovery = 98.95%						
Ca 317.933Radial†	2406.1	4888.7 ug/L	58.37	4888.7 ppb	58.37	1.19%

QC value within limits for Ca 317.933 Radial Recovery = 97.77%

Cd 226.502†	34954.4	492.90 ug/L	1.244	492.90 ppb	1.244	0.25%
QC value within limits for Cd 226.502 Recovery = 98.58%						
Co 228.616†	19234.1	500.70 ug/L	1.472	500.70 ppb	1.472	0.29%
QC value within limits for Co 228.616 Recovery = 100.14%						
Cr 267.716†	37785.3	492.94 ug/L	2.554	492.94 ppb	2.554	0.52%
QC value within limits for Cr 267.716 Recovery = 98.59%						
Cu 324.752†	149790.6	485.68 ug/L	1.931	485.68 ppb	1.931	0.40%
QC value within limits for Cu 324.752 Recovery = 97.14%						
Fe 238.204 Radial†	387.1	4855.4 ug/L	18.86	4855.4 ppb	18.86	0.39%
QC value within limits for Fe 238.204 Radial Recovery = 97.11%						
K 766.490 Radial†	23466.8	4678.6 ug/L	41.10	4678.6 ppb	41.10	0.88%
QC value within limits for K 766.490 Radial Recovery = 93.57%						
Mg 279.077 IEC†	115.2	5033.8 ug/L	137.18	5033.8 ppb	137.18	2.73%
QC value within limits for Mg 279.077 IEC Recovery = 100.68%						
Mn 257.610†	368343.5	483.56 ug/L	1.332	483.56 ppb	1.332	0.28%
QC value within limits for Mn 257.610 Recovery = 96.71%						
Mo 202.031†	5648.6	497.04 ug/L	2.849	497.04 ppb	2.849	0.57%
QC value within limits for Mo 202.031 Recovery = 99.41%						
Na 589.592 Radial†	24235.8	9517.8 ug/L	88.23	9517.8 ppb	88.23	0.93%
QC value within limits for Na 589.592 Radial Recovery = 95.18%						
Ni 231.604†	16024.3	500.06 ug/L	2.263	500.06 ppb	2.263	0.45%
QC value within limits for Ni 231.604 Recovery = 100.01%						
P 214.914†	3397.6	2347.6 ug/L	19.03	2347.6 ppb	19.03	0.81%
QC value within limits for P 214.914 Recovery = 93.91%						
Pb 220.353†	3264.4	493.57 ug/L	3.050	493.57 ppb	3.050	0.62%
QC value within limits for Pb 220.353 Recovery = 98.71%						
S 181.975 Axial†	562.1	984.32 ug/L	13.089	984.32 ppb	13.089	1.33%
QC value within limits for S 181.975 Axial Recovery = 98.43%						
Sb 206.836†	1166.9	513.69 ug/L	2.851	513.69 ppb	2.851	0.56%
QC value within limits for Sb 206.836 Recovery = 102.74%						
Se 196.026†	616.8	509.30 ug/L	2.573	509.30 ppb	2.573	0.51%
QC value within limits for Se 196.026 Recovery = 101.86%						
Si 251.611†	65983.3	2450.7 ug/L	7.17	2450.7 ppb	7.17	0.29%
QC value within limits for Si 251.611 Recovery = 98.03%						
Sn 189.927†	2246.9	498.23 ug/L	1.692	498.23 ppb	1.692	0.34%
QC value within limits for Sn 189.927 Recovery = 99.65%						
Sr 421.552†	55461.4	472.25 ug/L	3.848	472.25 ppb	3.848	0.81%
QC value within limits for Sr 421.552 Recovery = 94.45%						
Ti 334.940†	282814.8	486.43 ug/L	1.835	486.43 ppb	1.835	0.38%
QC value within limits for Ti 334.940 Recovery = 97.29%						
Tl 190.801†	1268.5	493.70 ug/L	2.332	493.70 ppb	2.332	0.47%
QC value within limits for Tl 190.801 Recovery = 98.74%						
U 409.014†	16970.7	497.70 ug/L	4.941	497.70 ppb	4.941	0.99%
QC value within limits for U 409.014 Recovery = 99.54%						
V 292.402†	63575.0	496.76 ug/L	1.816	496.76 ppb	1.816	0.37%
QC value within limits for V 292.402 Recovery = 99.35%						
Zn 213.857†	41503.9	488.49 ug/L	1.438	488.49 ppb	1.438	0.29%
QC value within limits for Zn 213.857 Recovery = 97.70%						
SiO2†	66728.1	5317.7 ug/L	5.96	5317.7 ppb	5.96	0.11%
QC value within limits for SiO2 Recovery = 99.44%						

All analyte(s) passed QC.

Sequence No.: 5
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/25/2010 10:21:46
 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	4061.4	4061.4	101 %		10:23:59
1	Y RADIAL	4484.6	4484.6	99.26 %		10:23:39
1	Al 396.153Radial†	-67.2	12.9	13.767 ug/L	13.767 ppb	10:23:59
1	Ca 317.933Radial†	19.8	2.5	5.0751 ug/L	5.0751 ppb	10:23:59
1	Fe 238.204 Radial†	6.2	-2.8	-35.479 ug/L	-35.479 ppb	10:23:59
1	K 766.490 Radial†	2929.1	106.0	21.175 ug/L	21.175 ppb	10:23:39
1	Mg 279.077 IEC†	1.5	0.8	35.686 ug/L	35.686 ppb	10:23:59
1	Na 589.592 Radial†	-583.5	-118.7	-46.602 ug/L	-46.602 ppb	10:23:39
1	Sr 421.552†	41.2	-29.2	-0.2484 ug/L	-0.2484 ppb	10:23:39
1	Sc 361.383	839397.5	839397.5	99.945 %		10:24:56
1	Y 371.029	714711.2	714711.2	99.810 %		10:24:56
1	Ag 328.068†	282.1	28.8	0.1354 ug/L	0.1354 ppb	10:25:01
1	As 188.979†	-20.8	-0.0	-0.0084 ug/L	-0.0084 ppb	10:25:21
1	B 249.677†	-115.9	134.2	3.6934 ug/L	3.6934 ppb	10:25:21
1	Ba 233.527†	8.1	-10.4	-0.0992 ug/L	-0.0992 ppb	10:25:21
1	Be 313.107†	-4206.0	54.5	0.0221 ug/L	0.0221 ppb	10:25:01
1	Cd 226.502†	-167.5	-1.2	-0.0130 ug/L	-0.0130 ppb	10:25:21
1	Co 228.616†	-33.1	5.8	0.1502 ug/L	0.1502 ppb	10:25:21
1	Cr 267.716†	129.1	34.2	0.4421 ug/L	0.4421 ppb	10:25:21
1	Cu 324.752†	6398.0	48.8	0.1574 ug/L	0.1574 ppb	10:25:01
1	Mn 257.610†	417.1	-35.1	-0.0510 ug/L	-0.0510 ppb	10:25:21
1	Mo 202.031†	13.1	-1.1	-0.0972 ug/L	-0.0972 ppb	10:25:21
1	Ni 231.604†	99.6	6.1	0.1895 ug/L	0.1895 ppb	10:25:21
1	P 214.914†	172.9	4.8	3.4642 ug/L	3.4642 ppb	10:25:21
1	Pb 220.353†	-47.6	11.2	1.6939 ug/L	1.6939 ppb	10:25:21
1	S 181.975 Axial†	29.1	4.7	8.2967 ug/L	8.2967 ppb	10:25:21
1	Sb 206.836†	32.0	5.4	2.3278 ug/L	2.3278 ppb	10:25:21
1	Se 196.026†	-16.3	0.7	0.4352 ug/L	0.4352 ppb	10:25:21
1	Si 251.611†	561.7	36.5	1.3608 ug/L	1.3608 ppb	10:25:21
1	Sn 189.927†	10.6	7.6	1.6752 ug/L	1.6752 ppb	10:25:21
1	Ti 334.940†	-1077.4	5.4	0.0077 ug/L	0.0077 ppb	10:25:01
1	Tl 190.801†	-20.5	4.6	1.7654 ug/L	1.7654 ppb	10:25:21
1	U 409.014†	-2102.7	-68.7	-2.0182 ug/L	-2.0182 ppb	10:24:56
1	V 292.402†	-1447.3	-20.6	-0.1581 ug/L	-0.1581 ppb	10:25:01
1	Zn 213.857†	687.5	81.4	0.9713 ug/L	0.9713 ppb	10:25:21
1	SiO2†	634.7	81.7	6.5266 ug/L	6.5266 ppb	10:26:27
2	Sc Radial	4087.7	4087.7	101 %		10:24:24
2	Y RADIAL	4528.3	4528.3	100.2 %		10:24:04
2	Al 396.153Radial†	-81.3	-0.5	-0.6047 ug/L	-0.6047 ppb	10:24:24
2	Ca 317.933Radial†	23.8	6.3	12.830 ug/L	12.830 ppb	10:24:24
2	Fe 238.204 Radial†	6.9	-2.2	-27.087 ug/L	-27.087 ppb	10:24:24
2	K 766.490 Radial†	2888.8	47.5	9.4818 ug/L	9.4818 ppb	10:24:04
2	Mg 279.077 IEC†	-0.4	-1.1	-47.683 ug/L	-47.683 ppb	10:24:24
2	Na 589.592 Radial†	-528.8	-60.9	-23.928 ug/L	-23.928 ppb	10:24:04
2	Sr 421.552†	7.0	-63.1	-0.5378 ug/L	-0.5378 ppb	10:24:04
2	Sc 361.383	846621.1	846621.1	100.81 %		10:25:26
2	Y 371.029	721085.2	721085.2	100.70 %		10:25:26
2	Ag 328.068†	259.6	4.1	0.0124 ug/L	0.0124 ppb	10:25:31
2	As 188.979†	-17.8	3.2	1.7130 ug/L	1.7130 ppb	10:25:51
2	B 249.677†	-96.9	154.1	4.2387 ug/L	4.2387 ppb	10:25:51
2	Ba 233.527†	16.8	-1.9	-0.0175 ug/L	-0.0175 ppb	10:25:51
2	Be 313.107†	-4317.8	-20.6	-0.0087 ug/L	-0.0087 ppb	10:25:31
2	Cd 226.502†	-185.3	-17.5	-0.2430 ug/L	-0.2430 ppb	10:25:51
2	Co 228.616†	-36.5	2.7	0.0730 ug/L	0.0730 ppb	10:25:51
2	Cr 267.716†	111.6	15.8	0.2026 ug/L	0.2026 ppb	10:25:51
2	Cu 324.752†	6440.9	36.7	0.1168 ug/L	0.1168 ppb	10:25:31
2	Mn 257.610†	438.9	-17.1	-0.0231 ug/L	-0.0231 ppb	10:25:51
2	Mo 202.031†	21.3	7.0	0.6104 ug/L	0.6104 ppb	10:25:51
2	Ni 231.604†	102.9	8.4	0.2635 ug/L	0.2635 ppb	10:25:51

2	P 214.914†	171.9	2.3	1.6655 ug/L	1.6655 ppb	10:25:51
2	Pb 220.353†	-62.7	-3.4	-0.5007 ug/L	-0.5007 ppb	10:25:51
2	S 181.975 Axial†	29.9	5.3	9.2173 ug/L	9.2173 ppb	10:25:51
2	Sb 206.836†	31.1	4.2	1.8143 ug/L	1.8143 ppb	10:25:51
2	Se 196.026†	-25.2	-8.1	-6.5155 ug/L	-6.5155 ppb	10:25:51
2	Si 251.611†	546.6	16.8	0.6184 ug/L	0.6184 ppb	10:25:51
2	Sn 189.927†	10.9	7.7	1.7154 ug/L	1.7154 ppb	10:25:51
2	Ti 334.940†	-1174.5	-81.8	-0.1359 ug/L	-0.1359 ppb	10:25:31
2	Tl 190.801†	-18.7	6.5	2.5070 ug/L	2.5070 ppb	10:25:51
2	U 409.014†	-2001.1	50.1	1.4771 ug/L	1.4771 ppb	10:25:26
2	V 292.402†	-1396.9	41.8	0.3365 ug/L	0.3365 ppb	10:25:31
2	Zn 213.857†	685.1	73.2	0.8713 ug/L	0.8713 ppb	10:25:51
2	SiO2†	564.5	6.6	0.5096 ug/L	0.5096 ppb	10:26:32
3	Sc Radial	4076.9	4076.9	101 %		10:24:49
3	Y RADIAL	4576.6	4576.6	101.3 %		10:24:29
3	Al 396.153Radial†	-83.0	-2.5	-2.6610 ug/L	-2.6610 ppb	10:24:49
3	Ca 317.933Radial†	21.5	4.1	8.2519 ug/L	8.2519 ppb	10:24:49
3	Fe 238.204 Radial†	8.4	-0.7	-8.8487 ug/L	-8.8487 ppb	10:24:49
3	K 766.490 Radial†	2932.7	98.5	19.674 ug/L	19.674 ppb	10:24:29
3	Mg 279.077 IEC†	1.0	0.3	13.528 ug/L	13.528 ppb	10:24:49
3	Na 589.592 Radial†	-537.5	-70.9	-27.860 ug/L	-27.860 ppb	10:24:29
3	Sr 421.552†	64.5	-6.2	-0.0529 ug/L	-0.0529 ppb	10:24:29
3	Sc 361.383	852757.7	852757.7	101.54 %		10:25:56
3	Y 371.029	726356.1	726356.1	101.44 %		10:25:56
3	Ag 328.068†	243.1	-14.0	-0.0718 ug/L	-0.0718 ppb	10:26:01
3	As 188.979†	-21.0	0.2	0.0824 ug/L	0.0824 ppb	10:26:21
3	B 249.677†	-139.4	112.8	3.1029 ug/L	3.1029 ppb	10:26:21
3	Ba 233.527†	23.2	4.3	0.0412 ug/L	0.0412 ppb	10:26:21
3	Be 313.107†	-4284.0	43.5	0.0177 ug/L	0.0177 ppb	10:26:01
3	Cd 226.502†	-170.5	-1.6	-0.0209 ug/L	-0.0209 ppb	10:26:21
3	Co 228.616†	-33.7	5.7	0.1495 ug/L	0.1495 ppb	10:26:21
3	Cr 267.716†	115.7	19.0	0.2467 ug/L	0.2467 ppb	10:26:21
3	Cu 324.752†	6502.2	51.0	0.1648 ug/L	0.1648 ppb	10:26:01
3	Mn 257.610†	490.7	30.8	0.0390 ug/L	0.0390 ppb	10:26:21
3	Mo 202.031†	14.5	0.1	0.0050 ug/L	0.0050 ppb	10:26:21
3	Ni 231.604†	102.2	7.1	0.2205 ug/L	0.2205 ppb	10:26:21
3	P 214.914†	184.1	13.1	9.3869 ug/L	9.3869 ppb	10:26:21
3	Pb 220.353†	-40.4	19.1	2.8729 ug/L	2.8729 ppb	10:26:21
3	S 181.975 Axial†	27.7	2.9	5.0771 ug/L	5.0771 ppb	10:26:21
3	Sb 206.836†	27.3	0.2	0.1066 ug/L	0.1066 ppb	10:26:21
3	Se 196.026†	-22.3	-5.0	-4.0187 ug/L	-4.0187 ppb	10:26:21
3	Si 251.611†	555.3	21.4	0.7976 ug/L	0.7976 ppb	10:26:21
3	Sn 189.927†	8.0	4.8	1.0704 ug/L	1.0704 ppb	10:26:21
3	Ti 334.940†	-1083.5	16.2	0.0276 ug/L	0.0276 ppb	10:26:01
3	Tl 190.801†	-21.8	3.6	1.4039 ug/L	1.4039 ppb	10:26:21
3	U 409.014†	-2052.4	13.8	0.4072 ug/L	0.4072 ppb	10:25:56
3	V 292.402†	-1389.0	59.5	0.4612 ug/L	0.4612 ppb	10:26:01
3	Zn 213.857†	717.0	99.7	1.1846 ug/L	1.1846 ppb	10:26:21
3	SiO2†	586.5	24.3	1.9377 ug/L	1.9377 ppb	10:26:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	846258.8	100.76 %		0.796			0.79%
Sc Radial	4075.3	101 %		0.3			0.32%
Y 371.029	720717.5	100.65 %		0.814			0.81%
Y RADIAL	4529.8	100.3 %		1.02			1.02%
Ag 328.068†	6.3	0.0253 ug/L		0.10419	0.0253 ppb	0.10419	411.05%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	3.3	3.5003 ug/L		8.95013	3.5003 ppb	8.95013	255.69%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.1	0.5957 ug/L		0.96868	0.5957 ppb	0.96868	162.62%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	133.7	3.6783 ug/L		0.56804	3.6783 ppb	0.56804	15.44%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-2.7	-0.0252 ug/L		0.07051	-0.0252 ppb	0.07051	280.14%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	25.8	0.0104 ug/L		0.01667	0.0104 ppb	0.01667	160.51%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.3	8.7189 ug/L		3.89845	8.7189 ppb	3.89845	44.71%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-6.7	-0.0923 ug/L	0.13058	-0.0923 ppb	0.13058	141.47%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.7	0.1242 ug/L	0.04435	0.1242 ppb	0.04435	35.69%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	23.0	0.2971 ug/L	0.12749	0.2971 ppb	0.12749	42.91%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	45.5	0.1463 ug/L	0.02586	0.1463 ppb	0.02586	17.68%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.9	-23.805 ug/L	13.6151	-23.805 ppb	13.6151	57.19%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	84.0	16.777 ug/L	6.3621	16.777 ppb	6.3621	37.92%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.0	0.5104 ug/L	43.18168	0.5104 ppb	43.18168	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-7.1	-0.0117 ug/L	0.04609	-0.0117 ppb	0.04609	393.87%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.0	0.1727 ug/L	0.38245	0.1727 ppb	0.38245	221.40%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-83.5	-32.797 ug/L	12.1164	-32.797 ppb	12.1164	36.94%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	7.2	0.2245 ug/L	0.03714	0.2245 ppb	0.03714	16.54%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	6.7	4.8389 ug/L	4.04010	4.8389 ppb	4.04010	83.49%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	9.0	1.3554 ug/L	1.71207	1.3554 ppb	1.71207	126.32%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	4.3	7.5304 ug/L	2.17387	7.5304 ppb	2.17387	28.87%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.3	1.4162 ug/L	1.16285	1.4162 ppb	1.16285	82.11%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.1	-3.3663 ug/L	3.52098	-3.3663 ppb	3.52098	104.59%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	24.9	0.9256 ug/L	0.38740	0.9256 ppb	0.38740	41.85%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.7	1.4870 ug/L	0.36133	1.4870 ppb	0.36133	24.30%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-32.8	-0.2797 ug/L	0.24394	-0.2797 ppb	0.24394	87.22%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-20.1	-0.0335 ug/L	0.08921	-0.0335 ppb	0.08921	266.31%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	4.9	1.8921 ug/L	0.56236	1.8921 ppb	0.56236	29.72%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-1.6	-0.0446 ug/L	1.79095	-0.0446 ppb	1.79095	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	26.9	0.2132 ug/L	0.32755	0.2132 ppb	0.32755	153.63%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	84.8	1.0091 ug/L	0.16002	1.0091 ppb	0.16002	15.86%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	37.5	2.9913 ug/L	3.14380	2.9913 ppb	3.14380	105.10%
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: 3/25/2010 11:24:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3990.2	3990.2	98.9 %		11:26:19
1	Y RADIAL	4440.2	4440.2	98.28 %		11:25:59
1	Al 396.153Radial†	4642.7	4773.2	5062.7 ug/L	5062.7 ppb	11:25:59
1	Ca 317.933Radial†	2491.4	2501.5	5082.3 ug/L	5082.3 ppb	11:26:19
1	Fe 238.204 Radial†	407.9	403.3	5058.6 ug/L	5058.6 ppb	11:26:19
1	K 766.490 Radial†	26874.8	24365.7	4857.8 ug/L	4857.8 ppb	11:25:59
1	Mg 279.077 IEC†	117.9	118.5	5177.3 ug/L	5177.3 ppb	11:26:19
1	Na 589.592 Radial†	24850.2	25583.1	10047 ug/L	10047 ppb	11:25:59
1	Sr 421.552†	57384.7	57942.8	493.38 ug/L	493.38 ppb	11:25:59
1	Sc 361.383	840225.5	840225.5	100.04 %		11:27:16
1	Y 371.029	709397.8	709397.8	99.068 %		11:27:16
1	Ag 328.068†	100130.3	99832.8	506.40 ug/L	506.40 ppb	11:27:21
1	As 188.979†	902.3	922.7	498.92 ug/L	498.92 ppb	11:27:41
1	B 249.677†	17699.1	17941.5	490.89 ug/L	490.89 ppb	11:27:21
1	Ba 233.527†	53109.2	53067.3	498.73 ug/L	498.73 ppb	11:27:21
1	Be 313.107†	1226611.6	1230334.0	500.64 ug/L	500.64 ppb	11:27:16
1	Cd 226.502†	35313.6	35464.5	500.08 ug/L	500.08 ppb	11:27:21
1	Co 228.616†	19545.0	19575.3	509.57 ug/L	509.57 ppb	11:27:21
1	Cr 267.716†	38489.5	38377.6	500.69 ug/L	500.69 ppb	11:27:21
1	Cu 324.752†	158402.7	151980.2	492.79 ug/L	492.79 ppb	11:27:21
1	Mn 257.610†	374685.7	374068.2	491.08 ug/L	491.08 ppb	11:27:21
1	Mo 202.031†	5720.2	5703.5	501.89 ug/L	501.89 ppb	11:27:41
1	Ni 231.604†	16386.8	16286.0	508.22 ug/L	508.22 ppb	11:27:21
1	P 214.914†	3599.7	3429.9	2369.4 ug/L	2369.4 ppb	11:27:41
1	Pb 220.353†	3236.1	3293.5	497.98 ug/L	497.98 ppb	11:27:41
1	S 181.975 Axial†	592.6	567.9	994.49 ug/L	994.49 ppb	11:27:41
1	Sb 206.836†	1208.6	1181.5	520.10 ug/L	520.10 ppb	11:27:41
1	Se 196.026†	591.0	607.6	502.68 ug/L	502.68 ppb	11:27:41
1	Si 251.611†	67467.1	66911.9	2485.2 ug/L	2485.2 ppb	11:27:21
1	Sn 189.927†	2282.9	2278.8	505.31 ug/L	505.31 ppb	11:27:41
1	Ti 334.940†	285912.8	286870.2	493.42 ug/L	493.42 ppb	11:27:21
1	Tl 190.801†	1255.3	1279.8	498.09 ug/L	498.09 ppb	11:27:41
1	U 409.014†	15133.7	17162.2	503.29 ug/L	503.29 ppb	11:27:21
1	V 292.402†	63260.7	64660.4	505.17 ug/L	505.17 ppb	11:27:21
1	Zn 213.857†	42740.7	42115.4	495.66 ug/L	495.66 ppb	11:27:21
1	SiO2†	66865.1	66282.3	5282.0 ug/L	5282.0 ppb	11:28:48
2	Sc Radial	4028.6	4028.6	99.9 %		11:26:44
2	Y RADIAL	4417.9	4417.9	97.78 %		11:26:24
2	Al 396.153Radial†	4599.4	4685.0	4969.1 ug/L	4969.1 ppb	11:26:24
2	Ca 317.933Radial†	2511.2	2497.2	5073.8 ug/L	5073.8 ppb	11:26:44
2	Fe 238.204 Radial†	417.2	408.7	5126.3 ug/L	5126.3 ppb	11:26:44
2	K 766.490 Radial†	26910.2	24141.7	4813.1 ug/L	4813.1 ppb	11:26:24
2	Mg 279.077 IEC†	120.5	120.0	5239.9 ug/L	5239.9 ppb	11:26:44
2	Na 589.592 Radial†	24770.6	25263.4	9921.3 ug/L	9921.3 ppb	11:26:24
2	Sr 421.552†	57475.8	57480.0	489.44 ug/L	489.44 ppb	11:26:24
2	Sc 361.383	847843.3	847843.3	100.95 %		11:27:47
2	Y 371.029	713668.5	713668.5	99.664 %		11:27:47
2	Ag 328.068†	101003.7	99798.7	506.25 ug/L	506.25 ppb	11:27:52
2	As 188.979†	908.5	920.8	497.94 ug/L	497.94 ppb	11:28:12
2	B 249.677†	17800.3	17882.7	489.27 ug/L	489.27 ppb	11:27:52
2	Ba 233.527†	53763.9	53238.9	500.34 ug/L	500.34 ppb	11:27:52
2	Be 313.107†	1233238.9	1225882.8	498.83 ug/L	498.83 ppb	11:27:47
2	Cd 226.502†	35588.8	35419.9	499.45 ug/L	499.45 ppb	11:27:52
2	Co 228.616†	19718.6	19571.7	509.45 ug/L	509.45 ppb	11:27:52
2	Cr 267.716†	38775.9	38315.6	499.88 ug/L	499.88 ppb	11:27:52
2	Cu 324.752†	160240.0	152377.5	494.08 ug/L	494.08 ppb	11:27:52
2	Mn 257.610†	379038.5	375015.0	492.33 ug/L	492.33 ppb	11:27:52
2	Mo 202.031†	5682.2	5614.5	494.06 ug/L	494.06 ppb	11:28:12
2	Ni 231.604†	16571.5	16321.7	509.34 ug/L	509.34 ppb	11:27:52

2	P 214.914†	3569.3	3367.4	2324.0 ug/L	2324.0 ppb	11:28:12
2	Pb 220.353†	3213.9	3242.5	490.24 ug/L	490.24 ppb	11:28:12
2	S 181.975 Axial†	595.4	565.4	990.03 ug/L	990.03 ppb	11:28:12
2	Sb 206.836†	1192.8	1154.9	508.48 ug/L	508.48 ppb	11:28:12
2	Se 196.026†	593.7	605.1	500.78 ug/L	500.78 ppb	11:28:12
2	Si 251.611†	68198.4	67030.4	2489.7 ug/L	2489.7 ppb	11:27:52
2	Sn 189.927†	2250.9	2226.6	493.75 ug/L	493.75 ppb	11:28:12
2	Ti 334.940†	289227.8	287586.2	494.64 ug/L	494.64 ppb	11:27:52
2	Tl 190.801†	1254.9	1268.2	493.62 ug/L	493.62 ppb	11:28:12
2	U 409.014†	15319.9	17210.7	504.72 ug/L	504.72 ppb	11:27:52
2	V 292.402†	63726.6	64553.8	504.23 ug/L	504.23 ppb	11:27:52
2	Zn 213.857†	43156.5	42143.4	495.98 ug/L	495.98 ppb	11:27:52
2	SiO2†	67150.4	65964.3	5256.8 ug/L	5256.8 ppb	11:28:53
3	Sc Radial	4025.6	4025.6	99.8 %		11:27:09
3	Y RADIAL	4462.1	4462.1	98.76 %		11:26:49
3	Al 396.153Radial†	4644.3	4733.5	5020.4 ug/L	5020.4 ppb	11:26:49
3	Ca 317.933Radial†	2513.8	2501.8	5082.9 ug/L	5082.9 ppb	11:27:09
3	Fe 238.204 Radial†	414.1	405.9	5090.8 ug/L	5090.8 ppb	11:27:09
3	K 766.490 Radial†	26988.7	24241.0	4832.9 ug/L	4832.9 ppb	11:26:49
3	Mg 279.077 IEC†	119.9	119.5	5219.2 ug/L	5219.2 ppb	11:27:09
3	Na 589.592 Radial†	24952.8	25465.0	10000 ug/L	10000 ppb	11:26:49
3	Sr 421.552†	57929.4	57978.5	493.68 ug/L	493.68 ppb	11:26:49
3	Sc 361.383	837106.2	837106.2	99.673 %		11:28:18
3	Y 371.029	705777.7	705777.7	98.562 %		11:28:18
3	Ag 328.068†	100018.9	100093.9	507.72 ug/L	507.72 ppb	11:28:23
3	As 188.979†	900.0	923.8	499.50 ug/L	499.50 ppb	11:28:43
3	B 249.677†	17716.5	18024.8	493.19 ug/L	493.19 ppb	11:28:23
3	Ba 233.527†	52894.5	53049.7	498.56 ug/L	498.56 ppb	11:28:23
3	Be 313.107†	1218115.2	1226378.4	499.03 ug/L	499.03 ppb	11:28:18
3	Cd 226.502†	35063.9	35345.5	498.40 ug/L	498.40 ppb	11:28:23
3	Co 228.616†	19307.6	19409.9	505.26 ug/L	505.26 ppb	11:28:23
3	Cr 267.716†	38249.5	38280.1	499.42 ug/L	499.42 ppb	11:28:23
3	Cu 324.752†	158416.5	152584.0	494.75 ug/L	494.75 ppb	11:28:23
3	Mn 257.610†	372652.7	373424.1	490.24 ug/L	490.24 ppb	11:28:23
3	Mo 202.031†	5695.1	5699.6	501.55 ug/L	501.55 ppb	11:28:43
3	Ni 231.604†	16223.9	16183.5	505.03 ug/L	505.03 ppb	11:28:23
3	P 214.914†	3598.0	3441.6	2377.3 ug/L	2377.3 ppb	11:28:43
3	Pb 220.353†	3223.3	3292.7	497.84 ug/L	497.84 ppb	11:28:43
3	S 181.975 Axial†	589.2	566.8	992.47 ug/L	992.47 ppb	11:28:43
3	Sb 206.836†	1202.0	1179.3	519.14 ug/L	519.14 ppb	11:28:43
3	Se 196.026†	599.7	618.6	511.49 ug/L	511.49 ppb	11:28:43
3	Si 251.611†	67344.6	67040.3	2490.0 ug/L	2490.0 ppb	11:28:23
3	Sn 189.927†	2261.3	2265.6	502.40 ug/L	502.40 ppb	11:28:43
3	Ti 334.940†	284943.7	286962.9	493.57 ug/L	493.57 ppb	11:28:23
3	Tl 190.801†	1244.9	1274.0	495.88 ug/L	495.88 ppb	11:28:43
3	U 409.014†	15216.2	17301.3	507.39 ug/L	507.39 ppb	11:28:23
3	V 292.402†	62835.3	64469.2	503.70 ug/L	503.70 ppb	11:28:23
3	Zn 213.857†	42489.4	42022.5	494.57 ug/L	494.57 ppb	11:28:23
3	SiO2†	66902.6	66569.0	5304.9 ug/L	5304.9 ppb	11:28:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841725.0	100.22 %	0.658			0.66%
Sc Radial	4014.8	99.5 %	0.53			0.53%
Y 371.029	709614.7	99.098 %	0.5516			0.56%
Y RADIAL	4440.1	98.27 %	0.489			0.50%
Ag 328.068†	99908.5	506.79 ug/L	0.809	506.79 ppb	0.809	0.16%
QC value within limits for Ag 328.068 Recovery = 101.36%						
Al 396.153Radial†	4730.5	5017.4 ug/L	46.86	5017.4 ppb	46.86	0.93%
QC value within limits for Al 396.153Radial Recovery = 100.35%						
As 188.979†	922.4	498.79 ug/L	0.789	498.79 ppb	0.789	0.16%
QC value within limits for As 188.979 Recovery = 99.76%						
B 249.677†	17949.7	491.12 ug/L	1.971	491.12 ppb	1.971	0.40%
QC value within limits for B 249.677 Recovery = 98.22%						
Ba 233.527†	53118.6	499.21 ug/L	0.981	499.21 ppb	0.981	0.20%
QC value within limits for Ba 233.527 Recovery = 99.84%						
Be 313.107†	1227531.7	499.50 ug/L	0.989	499.50 ppb	0.989	0.20%
QC value within limits for Be 313.107 Recovery = 99.90%						
Ca 317.933Radial†	2500.2	5079.7 ug/L	5.14	5079.7 ppb	5.14	0.10%

QC value within limits for Ca 317.933 Radial Recovery = 101.59%

Cd	226.502†	35410.0	499.31 ug/L	0.850	499.31 ppb	0.850	0.17%
QC value within limits for Cd 226.502 Recovery = 99.86%							
Co	228.616†	19519.0	508.10 ug/L	2.454	508.10 ppb	2.454	0.48%
QC value within limits for Co 228.616 Recovery = 101.62%							
Cr	267.716†	38324.4	500.00 ug/L	0.642	500.00 ppb	0.642	0.13%
QC value within limits for Cr 267.716 Recovery = 100.00%							
Cu	324.752†	152313.9	493.87 ug/L	0.995	493.87 ppb	0.995	0.20%
QC value within limits for Cu 324.752 Recovery = 98.77%							
Fe	238.204 Radial†	406.0	5091.9 ug/L	33.87	5091.9 ppb	33.87	0.67%
QC value within limits for Fe 238.204 Radial Recovery = 101.84%							
K	766.490 Radial†	24249.5	4834.6 ug/L	22.37	4834.6 ppb	22.37	0.46%
QC value within limits for K 766.490 Radial Recovery = 96.69%							
Mg	279.077 IEC†	119.3	5212.1 ug/L	31.87	5212.1 ppb	31.87	0.61%
QC value within limits for Mg 279.077 IEC Recovery = 104.24%							
Mn	257.610†	374169.1	491.22 ug/L	1.051	491.22 ppb	1.051	0.21%
QC value within limits for Mn 257.610 Recovery = 98.24%							
Mo	202.031†	5672.5	499.17 ug/L	4.424	499.17 ppb	4.424	0.89%
QC value within limits for Mo 202.031 Recovery = 99.83%							
Na	589.592 Radial†	25437.2	9989.5 ug/L	63.47	9989.5 ppb	63.47	0.64%
QC value within limits for Na 589.592 Radial Recovery = 99.90%							
Ni	231.604†	16263.7	507.53 ug/L	2.238	507.53 ppb	2.238	0.44%
QC value within limits for Ni 231.604 Recovery = 101.51%							
P	214.914†	3413.0	2356.9 ug/L	28.76	2356.9 ppb	28.76	1.22%
QC value within limits for P 214.914 Recovery = 94.28%							
Pb	220.353†	3276.2	495.35 ug/L	4.433	495.35 ppb	4.433	0.89%
QC value within limits for Pb 220.353 Recovery = 99.07%							
S	181.975 Axial†	566.7	992.33 ug/L	2.233	992.33 ppb	2.233	0.23%
QC value within limits for S 181.975 Axial Recovery = 99.23%							
Sb	206.836†	1171.9	515.91 ug/L	6.451	515.91 ppb	6.451	1.25%
QC value within limits for Sb 206.836 Recovery = 103.18%							
Se	196.026†	610.5	504.98 ug/L	5.715	504.98 ppb	5.715	1.13%
QC value within limits for Se 196.026 Recovery = 101.00%							
Si	251.611†	66994.2	2488.3 ug/L	2.69	2488.3 ppb	2.69	0.11%
QC value within limits for Si 251.611 Recovery = 99.53%							
Sn	189.927†	2257.0	500.49 ug/L	6.013	500.49 ppb	6.013	1.20%
QC value within limits for Sn 189.927 Recovery = 100.10%							
Sr	421.552†	57800.4	492.16 ug/L	2.368	492.16 ppb	2.368	0.48%
QC value within limits for Sr 421.552 Recovery = 98.43%							
Ti	334.940†	287139.7	493.88 ug/L	0.667	493.88 ppb	0.667	0.14%
QC value within limits for Ti 334.940 Recovery = 98.78%							
Tl	190.801†	1274.0	495.86 ug/L	2.237	495.86 ppb	2.237	0.45%
QC value within limits for Tl 190.801 Recovery = 99.17%							
U	409.014†	17224.8	505.13 ug/L	2.078	505.13 ppb	2.078	0.41%
QC value within limits for U 409.014 Recovery = 101.03%							
V	292.402†	64561.1	504.37 ug/L	0.746	504.37 ppb	0.746	0.15%
QC value within limits for V 292.402 Recovery = 100.87%							
Zn	213.857†	42093.8	495.40 ug/L	0.737	495.40 ppb	0.737	0.15%
QC value within limits for Zn 213.857 Recovery = 99.08%							
SiO2†		66271.9	5281.2 ug/L	24.06	5281.2 ppb	24.06	0.46%
QC value within limits for SiO2 Recovery = 98.76%							

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/25/2010 11:31:09

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	4038.3	4038.3	100 %		11:33:21
1	Y RADIAL	4571.2	4571.2	101.2 %		11:33:01
1	Al 396.153Radial†	-81.2	-1.5	-1.5663 ug/L	-1.5663 ppb	11:33:21
1	Ca 317.933Radial†	17.9	0.7	1.3285 ug/L	1.3285 ppb	11:33:21
1	Fe 238.204 Radial†	7.1	-1.9	-23.439 ug/L	-23.439 ppb	11:33:21
1	K 766.490 Radial†	2759.8	-46.5	-9.2666 ug/L	-9.2666 ppb	11:33:01
1	Mg 279.077 IEC†	2.6	1.9	82.585 ug/L	82.585 ppb	11:33:21
1	Na 589.592 Radial†	-515.5	-54.1	-21.241 ug/L	-21.241 ppb	11:33:01
1	Sr 421.552†	51.7	-18.4	-0.1567 ug/L	-0.1567 ppb	11:33:01
1	Sc 361.383	846065.6	846065.6	100.74 %		11:34:18
1	Y 371.029	720715.5	720715.5	100.65 %		11:34:18
1	Ag 328.068†	214.6	-40.4	-0.2138 ug/L	-0.2138 ppb	11:34:23
1	As 188.979†	-26.6	-5.5	-2.9791 ug/L	-2.9791 ppb	11:34:43
1	B 249.677†	-174.3	77.2	2.1246 ug/L	2.1246 ppb	11:34:43
1	Ba 233.527†	24.8	6.1	0.0562 ug/L	0.0562 ppb	11:34:43
1	Be 313.107†	-4273.9	20.2	0.0079 ug/L	0.0079 ppb	11:34:23
1	Cd 226.502†	-165.9	1.7	0.0278 ug/L	0.0278 ppb	11:34:43
1	Co 228.616†	-29.5	9.6	0.2506 ug/L	0.2506 ppb	11:34:43
1	Cr 267.716†	141.6	45.6	0.5900 ug/L	0.5900 ppb	11:34:43
1	Cu 324.752†	6430.0	30.1	0.0941 ug/L	0.0941 ppb	11:34:23
1	Mn 257.610†	458.5	2.7	-0.0022 ug/L	-0.0022 ppb	11:34:43
1	Mo 202.031†	17.1	2.8	0.2445 ug/L	0.2445 ppb	11:34:43
1	Ni 231.604†	97.4	3.1	0.0964 ug/L	0.0964 ppb	11:34:43
1	P 214.914†	174.5	5.0	3.5811 ug/L	3.5811 ppb	11:34:43
1	Pb 220.353†	-51.2	8.0	1.2030 ug/L	1.2030 ppb	11:34:43
1	S 181.975 Axial†	23.9	-0.7	-1.2174 ug/L	-1.2174 ppb	11:34:43
1	Sb 206.836†	29.4	2.6	1.1112 ug/L	1.1112 ppb	11:34:43
1	Se 196.026†	-16.9	0.2	0.0885 ug/L	0.0885 ppb	11:34:43
1	Si 251.611†	544.6	15.1	0.5593 ug/L	0.5593 ppb	11:34:43
1	Sn 189.927†	8.5	5.4	1.1925 ug/L	1.1925 ppb	11:34:43
1	Ti 334.940†	-1158.8	-66.9	-0.1236 ug/L	-0.1236 ppb	11:34:23
1	Tl 190.801†	-16.7	8.5	3.2918 ug/L	3.2918 ppb	11:34:43
1	U 409.014†	-1916.5	132.7	3.9071 ug/L	3.9071 ppb	11:34:18
1	V 292.402†	-1436.4	1.7	0.0287 ug/L	0.0287 ppb	11:34:23
1	Zn 213.857†	687.8	76.4	0.9100 ug/L	0.9100 ppb	11:34:43
1	SiO2†	555.6	-1.9	-0.1561 ug/L	-0.1561 ppb	11:36:04
2	Sc Radial	4005.7	4005.7	99.3 %		11:33:46
2	Y RADIAL	4566.7	4566.7	101.1 %		11:33:26
2	Al 396.153Radial†	-71.9	7.3	7.7202 ug/L	7.7202 ppb	11:33:46
2	Ca 317.933Radial†	23.4	6.3	12.868 ug/L	12.868 ppb	11:33:46
2	Fe 238.204 Radial†	9.4	0.5	6.3476 ug/L	6.3476 ppb	11:33:46
2	K 766.490 Radial†	2805.3	21.8	4.3624 ug/L	4.3624 ppb	11:33:26
2	Mg 279.077 IEC†	1.8	1.1	46.294 ug/L	46.294 ppb	11:33:46
2	Na 589.592 Radial†	-567.7	-110.8	-43.527 ug/L	-43.527 ppb	11:33:26
2	Sr 421.552†	26.6	-43.3	-0.3685 ug/L	-0.3685 ppb	11:33:26
2	Sc 361.383	847877.4	847877.4	100.96 %		11:34:48
2	Y 371.029	722408.6	722408.6	100.88 %		11:34:48
2	Ag 328.068†	269.9	14.0	0.0666 ug/L	0.0666 ppb	11:34:53
2	As 188.979†	-24.2	-3.1	-1.6820 ug/L	-1.6820 ppb	11:35:13
2	B 249.677†	-155.5	96.1	2.6416 ug/L	2.6416 ppb	11:35:13
2	Ba 233.527†	9.3	-9.3	-0.0884 ug/L	-0.0884 ppb	11:35:13
2	Be 313.107†	-4315.5	-12.0	-0.0052 ug/L	-0.0052 ppb	11:34:53
2	Cd 226.502†	-176.3	-8.2	-0.1155 ug/L	-0.1155 ppb	11:35:13
2	Co 228.616†	-38.1	1.2	0.0309 ug/L	0.0309 ppb	11:35:13
2	Cr 267.716†	125.8	29.7	0.3844 ug/L	0.3844 ppb	11:35:13
2	Cu 324.752†	6507.0	92.7	0.2986 ug/L	0.2986 ppb	11:34:53
2	Mn 257.610†	450.2	-6.5	-0.0098 ug/L	-0.0098 ppb	11:35:13
2	Mo 202.031†	18.6	4.3	0.3747 ug/L	0.3747 ppb	11:35:13
2	Ni 231.604†	80.7	-13.7	-0.4271 ug/L	-0.4271 ppb	11:35:13

2	P 214.914†	177.9	8.0	5.7203 ug/L	5.7203 ppb	11:35:13
2	Pb 220.353†	-45.2	14.0	2.1167 ug/L	2.1167 ppb	11:35:13
2	S 181.975 Axial†	21.5	-3.1	-5.4850 ug/L	-5.4850 ppb	11:35:13
2	Sb 206.836†	19.6	-7.3	-3.0410 ug/L	-3.0410 ppb	11:35:13
2	Se 196.026†	-18.0	-0.9	-0.6654 ug/L	-0.6654 ppb	11:35:13
2	Si 251.611†	526.8	-3.6	-0.1397 ug/L	-0.1397 ppb	11:35:13
2	Sn 189.927†	13.7	10.5	2.3285 ug/L	2.3285 ppb	11:35:13
2	Ti 334.940†	-1165.4	-71.0	-0.1262 ug/L	-0.1262 ppb	11:34:53
2	Tl 190.801†	-24.1	1.2	0.4697 ug/L	0.4697 ppb	11:35:13
2	U 409.014†	-1911.5	141.8	4.1705 ug/L	4.1705 ppb	11:34:48
2	V 292.402†	-1511.3	-69.4	-0.5219 ug/L	-0.5219 ppb	11:34:53
2	Zn 213.857†	689.5	76.6	0.9113 ug/L	0.9113 ppb	11:35:13
2	SiO2†	547.4	-11.2	-0.9022 ug/L	-0.9022 ppb	11:36:24
3	Sc Radial	4038.1	4038.1	100 %		11:34:11
3	Y RADIAL	4543.9	4543.9	100.6 %		11:33:51
3	Al 396.153Radial†	-72.5	7.2	7.6809 ug/L	7.6809 ppb	11:34:11
3	Ca 317.933Radial†	20.6	3.4	6.9097 ug/L	6.9097 ppb	11:34:11
3	Fe 238.204 Radial†	9.9	0.8	10.614 ug/L	10.614 ppb	11:34:11
3	K 766.490 Radial†	2679.1	-127.0	-25.333 ug/L	-25.333 ppb	11:33:51
3	Mg 279.077 IEC†	4.3	3.6	156.48 ug/L	156.48 ppb	11:34:11
3	Na 589.592 Radial†	-602.0	-140.5	-55.166 ug/L	-55.166 ppb	11:33:51
3	Sr 421.552†	21.6	-48.4	-0.4124 ug/L	-0.4124 ppb	11:33:51
3	Sc 361.383	852826.9	852826.9	101.54 %		11:35:19
3	Y 371.029	728257.2	728257.2	101.70 %		11:35:19
3	Ag 328.068†	334.6	76.2	0.3851 ug/L	0.3851 ppb	11:35:24
3	As 188.979†	-20.6	0.5	0.2872 ug/L	0.2872 ppb	11:35:44
3	B 249.677†	-177.2	75.7	2.0790 ug/L	2.0790 ppb	11:35:44
3	Ba 233.527†	16.0	-2.7	-0.0250 ug/L	-0.0250 ppb	11:35:44
3	Be 313.107†	-4200.7	125.9	0.0515 ug/L	0.0515 ppb	11:35:24
3	Cd 226.502†	-160.6	8.2	0.1154 ug/L	0.1154 ppb	11:35:44
3	Co 228.616†	-37.0	2.4	0.0631 ug/L	0.0631 ppb	11:35:44
3	Cr 267.716†	122.6	25.7	0.3351 ug/L	0.3351 ppb	11:35:44
3	Cu 324.752†	6418.8	-31.5	-0.1035 ug/L	-0.1035 ppb	11:35:24
3	Mn 257.610†	441.7	-17.4	-0.0282 ug/L	-0.0282 ppb	11:35:44
3	Mo 202.031†	15.1	0.7	0.0607 ug/L	0.0607 ppb	11:35:44
3	Ni 231.604†	92.1	-2.9	-0.0913 ug/L	-0.0913 ppb	11:35:44
3	P 214.914†	175.5	4.6	3.3600 ug/L	3.3600 ppb	11:35:44
3	Pb 220.353†	-68.4	-8.6	-1.2889 ug/L	-1.2889 ppb	11:35:44
3	S 181.975 Axial†	34.1	9.2	16.069 ug/L	16.069 ppb	11:35:44
3	Sb 206.836†	21.9	-5.1	-2.1284 ug/L	-2.1284 ppb	11:35:44
3	Se 196.026†	-15.1	2.0	1.6538 ug/L	1.6538 ppb	11:35:44
3	Si 251.611†	545.6	11.9	0.4422 ug/L	0.4422 ppb	11:35:44
3	Sn 189.927†	11.7	8.5	1.8774 ug/L	1.8774 ppb	11:35:44
3	Ti 334.940†	-1002.0	96.6	0.1529 ug/L	0.1529 ppb	11:35:24
3	Tl 190.801†	-22.6	2.8	1.0714 ug/L	1.0714 ppb	11:35:44
3	U 409.014†	-1959.1	105.9	3.1145 ug/L	3.1145 ppb	11:35:19
3	V 292.402†	-1431.0	18.3	0.1494 ug/L	0.1494 ppb	11:35:24
3	Zn 213.857†	683.9	67.1	0.7958 ug/L	0.7958 ppb	11:35:44
3	SiO2†	556.3	-5.5	-0.4399 ug/L	-0.4399 ppb	11:36:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848923.3	101.08 %	0.417			0.41%
Sc Radial	4027.3	99.8 %	0.47			0.47%
Y 371.029	723793.8	101.08 %	0.553			0.55%
Y RADIAL	4560.6	100.9 %	0.32			0.32%
Ag 328.068†	16.6	0.0793 ug/L	0.29968	0.0793 ppb	0.29968	377.93%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.3	4.6116 ug/L	5.35030	4.6116 ppb	5.35030	116.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.7	-1.4579 ug/L	1.64460	-1.4579 ppb	1.64460	112.80%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	83.0	2.2817 ug/L	0.31248	2.2817 ppb	0.31248	13.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-2.0	-0.0191 ug/L	0.07249	-0.0191 ppb	0.07249	380.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	44.7	0.0181 ug/L	0.02967	0.0181 ppb	0.02967	163.89%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.5	7.0354 ug/L	5.77078	7.0354 ppb	5.77078	82.03%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	0.6	0.0092 ug/L	0.11655	0.0092 ppb	0.11655 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	4.4	0.1149 ug/L	0.11864	0.1149 ppb	0.11864 103.28%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	33.7	0.4365 ug/L	0.13521	0.4365 ppb	0.13521 30.97%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	30.4	0.0964 ug/L	0.20104	0.0964 ppb	0.20104 208.56%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.2	-2.1594 ug/L	18.55204	-2.1594 ppb	18.55204 859.13%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-50.6	-10.079 ug/L	14.8643	-10.079 ppb	14.8643 147.48%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	2.2	95.121 ug/L	56.1537	95.121 ppb	56.1537 59.03%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-7.1	-0.0134 ug/L	0.01337	-0.0134 ppb	0.01337 99.90%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	2.6	0.2266 ug/L	0.15776	0.2266 ppb	0.15776 69.61%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-101.8	-39.978 ug/L	17.2388	-39.978 ppb	17.2388 43.12%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-4.5	-0.1407 ug/L	0.26523	-0.1407 ppb	0.26523 188.52%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	5.9	4.2204 ug/L	1.30360	4.2204 ppb	1.30360 30.89%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	4.5	0.6769 ug/L	1.76266	0.6769 ppb	1.76266 260.39%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	1.8	3.1223 ug/L	11.41367	3.1223 ppb	11.41367 365.55%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-3.3	-1.3527 ug/L	2.18209	-1.3527 ppb	2.18209 161.31%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	0.5	0.3590 ug/L	1.18305	0.3590 ppb	1.18305 329.56%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	7.8	0.2873 ug/L	0.37435	0.2873 ppb	0.37435 130.30%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	8.1	1.7995 ug/L	0.57200	1.7995 ppb	0.57200 31.79%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-36.7	-0.3125 ug/L	0.13675	-0.3125 ppb	0.13675 43.76%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-13.8	-0.0323 ug/L	0.16039	-0.0323 ppb	0.16039 495.93%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	4.2	1.6110 ug/L	1.48641	1.6110 ppb	1.48641 92.27%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	126.8	3.7307 ug/L	0.54967	3.7307 ppb	0.54967 14.73%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-16.5	-0.1146 ug/L	0.35785	-0.1146 ppb	0.35785 312.20%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	73.3	0.8724 ug/L	0.06630	0.8724 ppb	0.06630 7.60%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	-6.2	-0.4994 ug/L	0.37657	-0.4994 ppb	0.37657 75.41%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 12:43:21

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	4016.1	4016.1	99.6 %		12:45:33
1	Y RADIAL	4482.3	4482.3	99.21 %		12:45:13
1	Al 396.153Radial†	4698.8	4799.2	5090.4 ug/L	5090.4 ppb	12:45:13
1	Ca 317.933Radial†	2497.0	2490.8	5060.7 ug/L	5060.7 ppb	12:45:33
1	Fe 238.204 Radial†	404.8	397.6	4986.6 ug/L	4986.6 ppb	12:45:33
1	K 766.490 Radial†	27612.4	24931.1	4970.6 ug/L	4970.6 ppb	12:45:13
1	Mg 279.077 IEC†	118.7	118.6	5178.9 ug/L	5178.9 ppb	12:45:33
1	Na 589.592 Radial†	25254.5	25826.9	10143 ug/L	10143 ppb	12:45:13
1	Sr 421.552†	58354.8	58542.5	498.48 ug/L	498.48 ppb	12:45:13
1	Sc 361.383	841186.5	841186.5	100.16 %		12:46:30
1	Y 371.029	708161.3	708161.3	98.895 %		12:46:30
1	Ag 328.068†	99947.0	99535.5	504.86 ug/L	504.86 ppb	12:46:35
1	As 188.979†	917.0	936.4	506.23 ug/L	506.23 ppb	12:46:55
1	B 249.677†	17482.4	17704.9	484.41 ug/L	484.41 ppb	12:46:35
1	Ba 233.527†	53089.0	52986.5	497.96 ug/L	497.96 ppb	12:46:35
1	Be 313.107†	1217794.2	1220129.9	496.50 ug/L	496.50 ppb	12:46:30
1	Cd 226.502†	35263.6	35374.2	498.82 ug/L	498.82 ppb	12:46:35
1	Co 228.616†	19495.6	19503.7	507.71 ug/L	507.71 ppb	12:46:35
1	Cr 267.716†	38241.0	38085.5	496.87 ug/L	496.87 ppb	12:46:35
1	Cu 324.752†	158615.9	152012.1	492.89 ug/L	492.89 ppb	12:46:35
1	Mn 257.610†	374449.3	373404.4	490.20 ug/L	490.20 ppb	12:46:35
1	Mo 202.031†	5758.9	5735.6	504.70 ug/L	504.70 ppb	12:46:55
1	Ni 231.604†	16296.7	16177.3	504.83 ug/L	504.83 ppb	12:46:35
1	P 214.914†	3619.4	3445.5	2380.6 ug/L	2380.6 ppb	12:46:55
1	Pb 220.353†	3247.9	3301.6	499.22 ug/L	499.22 ppb	12:46:55
1	S 181.975 Axial†	600.7	575.4	1007.6 ug/L	1007.6 ppb	12:46:55
1	Sb 206.836†	1218.5	1190.0	523.79 ug/L	523.79 ppb	12:46:55
1	Se 196.026†	615.3	631.3	521.35 ug/L	521.35 ppb	12:46:55
1	Si 251.611†	67500.0	66867.8	2483.5 ug/L	2483.5 ppb	12:46:35
1	Sn 189.927†	2291.5	2284.7	506.64 ug/L	506.64 ppb	12:46:55
1	Ti 334.940†	285947.3	286578.1	492.91 ug/L	492.91 ppb	12:46:35
1	Tl 190.801†	1264.3	1287.4	501.02 ug/L	501.02 ppb	12:46:55
1	U 409.014†	15336.8	17347.7	508.77 ug/L	508.77 ppb	12:46:35
1	V 292.402†	62941.0	64269.0	502.22 ug/L	502.22 ppb	12:46:35
1	Zn 213.857†	42716.7	42042.7	494.83 ug/L	494.83 ppb	12:46:35
1	SiO2†	66365.9	65707.5	5236.0 ug/L	5236.0 ppb	12:48:02
2	Sc Radial	4056.4	4056.4	101 %		12:45:58
2	Y RADIAL	4468.9	4468.9	98.91 %		12:45:38
2	Al 396.153Radial†	4655.2	4709.0	4994.3 ug/L	4994.3 ppb	12:45:38
2	Ca 317.933Radial†	2515.5	2484.3	5047.5 ug/L	5047.5 ppb	12:45:58
2	Fe 238.204 Radial†	411.8	400.5	5023.7 ug/L	5023.7 ppb	12:45:58
2	K 766.490 Radial†	27575.5	24618.7	4908.3 ug/L	4908.3 ppb	12:45:38
2	Mg 279.077 IEC†	121.2	119.9	5236.0 ug/L	5236.0 ppb	12:45:58
2	Na 589.592 Radial†	25344.7	25664.4	10079 ug/L	10079 ppb	12:45:38
2	Sr 421.552†	57713.2	57321.8	488.09 ug/L	488.09 ppb	12:45:38
2	Sc 361.383	838552.3	838552.3	99.845 %		12:47:00
2	Y 371.029	705908.9	705908.9	98.580 %		12:47:00
2	Ag 328.068†	100319.6	100222.1	508.35 ug/L	508.35 ppb	12:47:06
2	As 188.979†	892.7	914.9	494.75 ug/L	494.75 ppb	12:47:26
2	B 249.677†	17680.5	17958.1	491.35 ug/L	491.35 ppb	12:47:06
2	Ba 233.527†	53161.6	53225.7	500.21 ug/L	500.21 ppb	12:47:06
2	Be 313.107†	1213909.8	1220058.9	496.47 ug/L	496.47 ppb	12:47:00
2	Cd 226.502†	35387.3	35608.7	502.12 ug/L	502.12 ppb	12:47:06
2	Co 228.616†	19601.5	19670.9	512.05 ug/L	512.05 ppb	12:47:06
2	Cr 267.716†	38409.7	38374.5	500.64 ug/L	500.64 ppb	12:47:06
2	Cu 324.752†	159091.9	152986.3	496.05 ug/L	496.05 ppb	12:47:06
2	Mn 257.610†	375744.2	375875.6	493.45 ug/L	493.45 ppb	12:47:06
2	Mo 202.031†	5703.8	5698.4	501.44 ug/L	501.44 ppb	12:47:26
2	Ni 231.604†	16327.3	16259.0	507.38 ug/L	507.38 ppb	12:47:06

2	P 214.914†	3600.7	3438.1	2374.6 ug/L	2374.6 ppb	12:47:26
2	Pb 220.353†	3214.2	3278.0	495.63 ug/L	495.63 ppb	12:47:26
2	S 181.975 Axial†	599.7	576.2	1009.1 ug/L	1009.1 ppb	12:47:26
2	Sb 206.836†	1219.0	1194.3	525.49 ug/L	525.49 ppb	12:47:26
2	Se 196.026†	604.8	622.6	514.50 ug/L	514.50 ppb	12:47:26
2	Si 251.611†	67756.6	67336.5	2501.0 ug/L	2501.0 ppb	12:47:06
2	Sn 189.927†	2264.1	2264.5	502.16 ug/L	502.16 ppb	12:47:26
2	Ti 334.940†	286751.7	288280.6	495.83 ug/L	495.83 ppb	12:47:06
2	Tl 190.801†	1246.0	1273.0	495.50 ug/L	495.50 ppb	12:47:26
2	U 409.014†	15232.2	17291.0	507.09 ug/L	507.09 ppb	12:47:06
2	V 292.402†	63059.4	64584.9	504.59 ug/L	504.59 ppb	12:47:06
2	Zn 213.857†	42838.8	42299.0	497.85 ug/L	497.85 ppb	12:47:06
2	SiO2†	67558.6	67110.2	5348.1 ug/L	5348.1 ppb	12:48:07
3	Sc Radial	4021.5	4021.5	99.7 %		12:46:23
3	Y RADIAL	4461.3	4461.3	98.74 %		12:46:03
3	Al 396.153Radial†	4671.7	4765.6	5054.9 ug/L	5054.9 ppb	12:46:03
3	Ca 317.933Radial†	2501.1	2491.5	5062.2 ug/L	5062.2 ppb	12:46:23
3	Fe 238.204 Radial†	412.5	404.8	5076.7 ug/L	5076.7 ppb	12:46:23
3	K 766.490 Radial†	27153.4	24433.4	4871.3 ug/L	4871.3 ppb	12:46:03
3	Mg 279.077 IEC†	119.3	119.0	5198.3 ug/L	5198.3 ppb	12:46:23
3	Na 589.592 Radial†	24843.9	25380.9	9967.4 ug/L	9967.4 ppb	12:46:03
3	Sr 421.552†	57318.1	57423.8	488.96 ug/L	488.96 ppb	12:46:03
3	Sc 361.383	849495.3	849495.3	101.15 %		12:47:31
3	Y 371.029	714922.7	714922.7	99.839 %		12:47:31
3	Ag 328.068†	99931.1	98543.7	499.88 ug/L	499.88 ppb	12:47:36
3	As 188.979†	906.7	917.2	495.93 ug/L	495.93 ppb	12:47:57
3	B 249.677†	17518.6	17570.0	480.69 ug/L	480.69 ppb	12:47:36
3	Ba 233.527†	53102.6	52481.5	493.22 ug/L	493.22 ppb	12:47:36
3	Be 313.107†	1226338.0	1216684.5	495.09 ug/L	495.09 ppb	12:47:31
3	Cd 226.502†	35287.3	35053.3	494.28 ug/L	494.28 ppb	12:47:36
3	Co 228.616†	19541.7	19358.8	503.93 ug/L	503.93 ppb	12:47:36
3	Cr 267.716†	38294.8	37765.3	492.71 ug/L	492.71 ppb	12:47:36
3	Cu 324.752†	158203.0	150055.0	486.55 ug/L	486.55 ppb	12:47:36
3	Mn 257.610†	374860.7	370154.4	485.95 ug/L	485.95 ppb	12:47:36
3	Mo 202.031†	5723.1	5644.0	496.65 ug/L	496.65 ppb	12:47:57
3	Ni 231.604†	16327.3	16048.5	500.81 ug/L	500.81 ppb	12:47:36
3	P 214.914†	3601.4	3392.3	2343.5 ug/L	2343.5 ppb	12:47:57
3	Pb 220.353†	3222.3	3244.6	490.59 ug/L	490.59 ppb	12:47:57
3	S 181.975 Axial†	591.7	560.6	981.65 ug/L	981.65 ppb	12:47:57
3	Sb 206.836†	1215.3	1174.9	517.04 ug/L	517.04 ppb	12:47:57
3	Se 196.026†	601.9	612.0	506.16 ug/L	506.16 ppb	12:47:57
3	Si 251.611†	67506.7	66215.2	2459.3 ug/L	2459.3 ppb	12:47:36
3	Sn 189.927†	2269.9	2241.0	496.95 ug/L	496.95 ppb	12:47:57
3	Ti 334.940†	286155.2	283991.3	488.46 ug/L	488.46 ppb	12:47:36
3	Tl 190.801†	1247.7	1258.6	489.87 ug/L	489.87 ppb	12:47:57
3	U 409.014†	15212.8	17075.4	500.76 ug/L	500.76 ppb	12:47:36
3	V 292.402†	62953.2	63666.4	497.43 ug/L	497.43 ppb	12:47:36
3	Zn 213.857†	42677.2	41586.5	489.43 ug/L	489.43 ppb	12:47:36
3	SiO2†	67090.6	65775.9	5241.7 ug/L	5241.7 ppb	12:48:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843078.0	100.38 %	0.680			0.68%
Sc Radial	4031.3	99.9 %	0.54			0.54%
Y 371.029	709664.3	99.105 %	0.6551			0.66%
Y RADIAL	4470.9	98.96 %	0.235			0.24%
Ag 328.068†	99433.8	504.36 ug/L	4.257	504.36 ppb	4.257	0.84%
QC value within limits for Ag 328.068 Recovery = 100.87%						
Al 396.153Radial†	4757.9	5046.5 ug/L	48.57	5046.5 ppb	48.57	0.96%
QC value within limits for Al 396.153Radial Recovery = 100.93%						
As 188.979†	922.9	498.97 ug/L	6.314	498.97 ppb	6.314	1.27%
QC value within limits for As 188.979 Recovery = 99.79%						
B 249.677†	17744.3	485.48 ug/L	5.408	485.48 ppb	5.408	1.11%
QC value within limits for B 249.677 Recovery = 97.10%						
Ba 233.527†	52897.9	497.13 ug/L	3.568	497.13 ppb	3.568	0.72%
QC value within limits for Ba 233.527 Recovery = 99.43%						
Be 313.107†	1218957.8	496.02 ug/L	0.807	496.02 ppb	0.807	0.16%
QC value within limits for Be 313.107 Recovery = 99.20%						
Ca 317.933Radial†	2488.9	5056.8 ug/L	8.06	5056.8 ppb	8.06	0.16%

QC value within limits for Ca 317.933 Radial Recovery = 101.14%

Cd 226.502†	35345.4	498.40 ug/L	3.938	498.40 ppb	3.938	0.79%
QC value within limits for Cd 226.502 Recovery = 99.68%						
Co 228.616†	19511.1	507.90 ug/L	4.062	507.90 ppb	4.062	0.80%
QC value within limits for Co 228.616 Recovery = 101.58%						
Cr 267.716†	38075.1	496.74 ug/L	3.968	496.74 ppb	3.968	0.80%
QC value within limits for Cr 267.716 Recovery = 99.35%						
Cu 324.752†	151684.5	491.83 ug/L	4.837	491.83 ppb	4.837	0.98%
QC value within limits for Cu 324.752 Recovery = 98.37%						
Fe 238.204 Radial†	401.0	5029.0 ug/L	45.28	5029.0 ppb	45.28	0.90%
QC value within limits for Fe 238.204 Radial Recovery = 100.58%						
K 766.490 Radial†	24661.1	4916.7 ug/L	50.18	4916.7 ppb	50.18	1.02%
QC value within limits for K 766.490 Radial Recovery = 98.33%						
Mg 279.077 IEC†	119.1	5204.4 ug/L	29.03	5204.4 ppb	29.03	0.56%
QC value within limits for Mg 279.077 IEC Recovery = 104.09%						
Mn 257.610†	373144.8	489.87 ug/L	3.761	489.87 ppb	3.761	0.77%
QC value within limits for Mn 257.610 Recovery = 97.97%						
Mo 202.031†	5692.7	500.93 ug/L	4.047	500.93 ppb	4.047	0.81%
QC value within limits for Mo 202.031 Recovery = 100.19%						
Na 589.592 Radial†	25624.1	10063 ug/L	88.6	10063 ppb	88.6	0.88%
QC value within limits for Na 589.592 Radial Recovery = 100.63%						
Ni 231.604†	16161.6	504.34 ug/L	3.312	504.34 ppb	3.312	0.66%
QC value within limits for Ni 231.604 Recovery = 100.87%						
P 214.914†	3425.3	2366.3 ug/L	19.93	2366.3 ppb	19.93	0.84%
QC value within limits for P 214.914 Recovery = 94.65%						
Pb 220.353†	3274.7	495.14 ug/L	4.336	495.14 ppb	4.336	0.88%
QC value within limits for Pb 220.353 Recovery = 99.03%						
S 181.975 Axial†	570.7	999.44 ug/L	15.425	999.44 ppb	15.425	1.54%
QC value within limits for S 181.975 Axial Recovery = 99.94%						
Sb 206.836†	1186.4	522.11 ug/L	4.469	522.11 ppb	4.469	0.86%
QC value within limits for Sb 206.836 Recovery = 104.42%						
Se 196.026†	622.0	514.00 ug/L	7.609	514.00 ppb	7.609	1.48%
QC value within limits for Se 196.026 Recovery = 102.80%						
Si 251.611†	66806.5	2481.3 ug/L	20.93	2481.3 ppb	20.93	0.84%
QC value within limits for Si 251.611 Recovery = 99.25%						
Sn 189.927†	2263.4	501.92 ug/L	4.847	501.92 ppb	4.847	0.97%
QC value within limits for Sn 189.927 Recovery = 100.38%						
Sr 421.552†	57762.7	491.84 ug/L	5.767	491.84 ppb	5.767	1.17%
QC value within limits for Sr 421.552 Recovery = 98.37%						
Ti 334.940†	286283.4	492.40 ug/L	3.711	492.40 ppb	3.711	0.75%
QC value within limits for Ti 334.940 Recovery = 98.48%						
Tl 190.801†	1273.0	495.46 ug/L	5.576	495.46 ppb	5.576	1.13%
QC value within limits for Tl 190.801 Recovery = 99.09%						
U 409.014†	17238.0	505.54 ug/L	4.226	505.54 ppb	4.226	0.84%
QC value within limits for U 409.014 Recovery = 101.11%						
V 292.402†	64173.4	501.41 ug/L	3.646	501.41 ppb	3.646	0.73%
QC value within limits for V 292.402 Recovery = 100.28%						
Zn 213.857†	41976.1	494.04 ug/L	4.264	494.04 ppb	4.264	0.86%
QC value within limits for Zn 213.857 Recovery = 98.81%						
SiO2†	66197.9	5275.3 ug/L	63.18	5275.3 ppb	63.18	1.20%
QC value within limits for SiO2 Recovery = 98.65%						

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/25/2010 12:50:23
 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	4078.4	4078.4	101 %		12:52:35
1	Y RADIAL	4530.8	4530.8	100.3 %		12:52:15
1	Al 396.153Radial†	-85.8	-5.2	-5.6017 ug/L	-5.6017 ppb	12:52:35
1	Ca 317.933Radial†	24.4	7.0	14.122 ug/L	14.122 ppb	12:52:35
1	Fe 238.204 Radial†	8.9	-0.2	-2.3690 ug/L	-2.3690 ppb	12:52:35
1	K 766.490 Radial†	2815.2	-18.8	-3.7799 ug/L	-3.7799 ppb	12:52:15
1	Mg 279.077 IEC†	1.5	0.7	32.710 ug/L	32.710 ppb	12:52:35
1	Na 589.592 Radial†	-314.3	150.0	58.903 ug/L	58.903 ppb	12:52:15
1	Sr 421.552†	71.1	0.3	0.0027 ug/L	0.0027 ppb	12:52:15
1	Sc 361.383	825990.6	825990.6	98.349 %		12:53:32
1	Y 371.029	705250.2	705250.2	98.488 %		12:53:32
1	Ag 328.068†	270.4	21.5	0.1103 ug/L	0.1103 ppb	12:53:32
1	As 188.979†	-24.9	-4.4	-2.3839 ug/L	-2.3839 ppb	12:53:52
1	B 249.677†	-281.2	-35.8	-0.9832 ug/L	-0.9832 ppb	12:53:52
1	Ba 233.527†	33.3	15.3	0.1439 ug/L	0.1439 ppb	12:53:52
1	Be 313.107†	-4239.9	-48.4	-0.0199 ug/L	-0.0199 ppb	12:53:32
1	Cd 226.502†	-169.0	-5.4	-0.0762 ug/L	-0.0762 ppb	12:53:52
1	Co 228.616†	-46.5	-8.4	-0.2171 ug/L	-0.2171 ppb	12:53:52
1	Cr 267.716†	102.5	9.2	0.1214 ug/L	0.1214 ppb	12:53:52
1	Cu 324.752†	6371.8	126.0	0.4099 ug/L	0.4099 ppb	12:53:32
1	Mn 257.610†	439.1	-6.0	-0.0094 ug/L	-0.0094 ppb	12:53:52
1	Mo 202.031†	16.2	2.3	0.1985 ug/L	0.1985 ppb	12:53:52
1	Ni 231.604†	89.2	-2.9	-0.0894 ug/L	-0.0894 ppb	12:53:52
1	P 214.914†	183.2	18.1	12.930 ug/L	12.930 ppb	12:53:52
1	Pb 220.353†	-66.0	-8.3	-1.2528 ug/L	-1.2528 ppb	12:53:52
1	S 181.975 Axial†	30.2	6.3	11.056 ug/L	11.056 ppb	12:53:52
1	Sb 206.836†	22.9	-3.4	-1.4271 ug/L	-1.4271 ppb	12:53:52
1	Se 196.026†	-15.2	1.5	1.1525 ug/L	1.1525 ppb	12:53:52
1	Si 251.611†	524.3	7.6	0.2807 ug/L	0.2807 ppb	12:53:52
1	Sn 189.927†	0.7	-2.3	-0.5133 ug/L	-0.5133 ppb	12:53:52
1	Ti 334.940†	-1118.9	-54.3	-0.0932 ug/L	-0.0932 ppb	12:53:32
1	Tl 190.801†	-22.1	2.6	1.0191 ug/L	1.0191 ppb	12:53:52
1	U 409.014†	-2085.8	-85.6	-2.5192 ug/L	-2.5192 ppb	12:53:32
1	V 292.402†	-1379.9	24.5	0.1875 ug/L	0.1875 ppb	12:53:32
1	Zn 213.857†	696.7	102.0	1.2115 ug/L	1.2115 ppb	12:53:52
1	SiO2†	552.0	7.9	0.6277 ug/L	0.6277 ppb	12:55:03
2	Sc Radial	4038.2	4038.2	100 %		12:53:00
2	Y RADIAL	4445.9	4445.9	98.40 %		12:52:40
2	Al 396.153Radial†	-81.9	-2.1	-2.3141 ug/L	-2.3141 ppb	12:53:00
2	Ca 317.933Radial†	20.2	3.0	5.9981 ug/L	5.9981 ppb	12:53:00
2	Fe 238.204 Radial†	7.7	-1.3	-16.731 ug/L	-16.731 ppb	12:53:00
2	K 766.490 Radial†	2951.3	144.9	28.894 ug/L	28.894 ppb	12:52:40
2	Mg 279.077 IEC†	0.1	-0.6	-26.836 ug/L	-26.836 ppb	12:53:00
2	Na 589.592 Radial†	-316.2	145.1	56.969 ug/L	56.969 ppb	12:52:40
2	Sr 421.552†	89.1	19.0	0.1615 ug/L	0.1615 ppb	12:52:40
2	Sc 361.383	831254.3	831254.3	98.976 %		12:53:57
2	Y 371.029	709547.1	709547.1	99.088 %		12:53:57
2	Ag 328.068†	136.8	-115.2	-0.5869 ug/L	-0.5869 ppb	12:53:57
2	As 188.979†	-25.7	-5.1	-2.7625 ug/L	-2.7625 ppb	12:54:17
2	B 249.677†	-310.2	-63.3	-1.7371 ug/L	-1.7371 ppb	12:54:17
2	Ba 233.527†	21.9	3.6	0.0320 ug/L	0.0320 ppb	12:54:17
2	Be 313.107†	-4291.2	-72.9	-0.0297 ug/L	-0.0297 ppb	12:53:57
2	Cd 226.502†	-162.9	1.9	0.0276 ug/L	0.0276 ppb	12:54:17
2	Co 228.616†	-35.1	3.4	0.0906 ug/L	0.0906 ppb	12:54:17
2	Cr 267.716†	91.8	-2.2	-0.0312 ug/L	-0.0312 ppb	12:54:17
2	Cu 324.752†	6512.1	226.7	0.7350 ug/L	0.7350 ppb	12:53:57
2	Mn 257.610†	444.6	-3.2	-0.0048 ug/L	-0.0048 ppb	12:54:17
2	Mo 202.031†	20.2	6.2	0.5415 ug/L	0.5415 ppb	12:54:17
2	Ni 231.604†	94.5	1.9	0.0591 ug/L	0.0591 ppb	12:54:17

2	P 214.914†	181.2	14.8	10.547 ug/L	10.547 ppb	12:54:17
2	Pb 220.353†	-58.3	-0.1	-0.0149 ug/L	-0.0149 ppb	12:54:17
2	S 181.975 Axial†	31.8	7.7	13.504 ug/L	13.504 ppb	12:54:17
2	Sb 206.836†	21.1	-5.3	-2.2106 ug/L	-2.2106 ppb	12:54:17
2	Se 196.026†	-22.5	-5.7	-4.6285 ug/L	-4.6285 ppb	12:54:17
2	Si 251.611†	531.2	11.2	0.4112 ug/L	0.4112 ppb	12:54:17
2	Sn 189.927†	11.3	8.4	1.8515 ug/L	1.8515 ppb	12:54:17
2	Ti 334.940†	-1096.0	-24.0	-0.0377 ug/L	-0.0377 ppb	12:53:57
2	Tl 190.801†	-19.7	5.2	2.0112 ug/L	2.0112 ppb	12:54:17
2	U 409.014†	-2062.3	-48.5	-1.4240 ug/L	-1.4240 ppb	12:53:57
2	V 292.402†	-1479.1	-66.9	-0.5087 ug/L	-0.5087 ppb	12:53:57
2	Zn 213.857†	680.8	81.4	0.9680 ug/L	0.9680 ppb	12:54:17
2	SiO2†	544.8	-2.9	-0.2493 ug/L	-0.2493 ppb	12:55:23
3	Sc Radial	4048.1	4048.1	100 %		12:53:25
3	Y RADIAL	4454.2	4454.2	98.59 %		12:53:05
3	Al 396.153Radial†	-70.8	9.1	9.6519 ug/L	9.6519 ppb	12:53:25
3	Ca 317.933Radial†	26.9	9.6	19.443 ug/L	19.443 ppb	12:53:25
3	Fe 238.204 Radial†	9.0	-0.1	-0.7986 ug/L	-0.7986 ppb	12:53:25
3	K 766.490 Radial†	2816.6	3.4	0.6589 ug/L	0.6589 ppb	12:53:05
3	Mg 279.077 IEC†	0.3	-0.4	-16.027 ug/L	-16.027 ppb	12:53:25
3	Na 589.592 Radial†	-355.2	106.9	41.981 ug/L	41.981 ppb	12:53:05
3	Sr 421.552†	40.2	-30.0	-0.2555 ug/L	-0.2555 ppb	12:53:05
3	Sc 361.383	829647.3	829647.3	98.785 %		12:54:23
3	Y 371.029	707961.0	707961.0	98.867 %		12:54:23
3	Ag 328.068†	168.8	-82.5	-0.4209 ug/L	-0.4209 ppb	12:54:23
3	As 188.979†	-18.5	2.1	1.1239 ug/L	1.1239 ppb	12:54:43
3	B 249.677†	-269.6	-22.8	-0.6252 ug/L	-0.6252 ppb	12:54:43
3	Ba 233.527†	27.2	9.0	0.0833 ug/L	0.0833 ppb	12:54:43
3	Be 313.107†	-4218.6	-7.8	-0.0034 ug/L	-0.0034 ppb	12:54:23
3	Cd 226.502†	-158.0	6.4	0.0916 ug/L	0.0916 ppb	12:54:43
3	Co 228.616†	-39.1	-0.7	-0.0182 ug/L	-0.0182 ppb	12:54:43
3	Cr 267.716†	98.2	4.4	0.0555 ug/L	0.0555 ppb	12:54:43
3	Cu 324.752†	6325.2	50.2	0.1609 ug/L	0.1609 ppb	12:54:23
3	Mn 257.610†	458.2	11.4	0.0156 ug/L	0.0156 ppb	12:54:43
3	Mo 202.031†	13.9	-0.2	-0.0140 ug/L	-0.0140 ppb	12:54:43
3	Ni 231.604†	89.2	-3.3	-0.1034 ug/L	-0.1034 ppb	12:54:43
3	P 214.914†	168.4	2.3	1.6113 ug/L	1.6113 ppb	12:54:43
3	Pb 220.353†	-54.3	3.8	0.5815 ug/L	0.5815 ppb	12:54:43
3	S 181.975 Axial†	33.6	9.6	16.791 ug/L	16.791 ppb	12:54:43
3	Sb 206.836†	20.1	-6.3	-2.6748 ug/L	-2.6748 ppb	12:54:43
3	Se 196.026†	-18.8	-2.1	-1.6605 ug/L	-1.6605 ppb	12:54:43
3	Si 251.611†	533.5	14.6	0.5435 ug/L	0.5435 ppb	12:54:43
3	Sn 189.927†	3.6	0.5	0.1252 ug/L	0.1252 ppb	12:54:43
3	Ti 334.940†	-1134.9	-65.5	-0.1103 ug/L	-0.1103 ppb	12:54:23
3	Tl 190.801†	-29.7	-4.9	-1.9137 ug/L	-1.9137 ppb	12:54:43
3	U 409.014†	-1894.3	117.6	3.4589 ug/L	3.4589 ppb	12:54:23
3	V 292.402†	-1462.4	-52.9	-0.4012 ug/L	-0.4012 ppb	12:54:23
3	Zn 213.857†	697.2	99.3	1.1803 ug/L	1.1803 ppb	12:54:43
3	SiO2†	555.6	9.0	0.7231 ug/L	0.7231 ppb	12:55:43

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	828964.0	98.703 %		0.3212			0.33%
Sc Radial	4054.9	101 %		0.5			0.52%
Y 371.029	707586.1	98.815 %		0.3034			0.31%
Y RADIAL	4477.0	99.09 %		1.036			1.05%
Ag 328.068†	-58.7	-0.2992 ug/L		0.36422	-0.2992 ppb	0.36422	121.74%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.6	0.5787 ug/L		8.02774	0.5787 ppb	8.02774	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-2.5	-1.3408 ug/L		2.14290	-1.3408 ppb	2.14290	159.82%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-40.6	-1.1152 ug/L		0.56754	-1.1152 ppb	0.56754	50.89%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.3	0.0864 ug/L		0.05603	0.0864 ppb	0.05603	64.85%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-43.0	-0.0177 ug/L		0.01327	-0.0177 ppb	0.01327	75.15%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	6.5	13.188 ug/L		6.7711	13.188 ppb	6.7711	51.34%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	1.0	0.0143 ug/L	0.08473	0.0143 ppb	0.08473 591.05%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-1.9	-0.0482 ug/L	0.15603	-0.0482 ppb	0.15603 323.64%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	3.8	0.0486 ug/L	0.07653	0.0486 ppb	0.07653 157.54%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	134.3	0.4352 ug/L	0.28788	0.4352 ppb	0.28788 66.14%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.5	-6.6329 ug/L	8.78042	-6.6329 ppb	8.78042 132.38%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	43.2	8.5909 ug/L	17.72225	8.5909 ppb	17.72225 206.29%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-0.1	-3.3842 ug/L	31.72242	-3.3842 ppb	31.72242 937.37%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	0.7	0.0005 ug/L	0.01329	0.0005 ppb	0.01329 >999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	2.8	0.2420 ug/L	0.28030	0.2420 ppb	0.28030 115.82%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	134.0	52.618 ug/L	9.2624	52.618 ppb	9.2624 17.60%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-1.4	-0.0446 ug/L	0.09007	-0.0446 ppb	0.09007 202.01%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	11.7	8.3628 ug/L	5.96708	8.3628 ppb	5.96708 71.35%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-1.5	-0.2287 ug/L	0.93564	-0.2287 ppb	0.93564 409.03%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	7.9	13.783 ug/L	2.8777	13.783 ppb	2.8777 20.88%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-5.0	-2.1042 ug/L	0.63064	-2.1042 ppb	0.63064 29.97%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-2.1	-1.7122 ug/L	2.89089	-1.7122 ppb	2.89089 168.85%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	11.1	0.4118 ug/L	0.13139	0.4118 ppb	0.13139 31.90%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	2.2	0.4878 ug/L	1.22343	0.4878 ppb	1.22343 250.80%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-3.6	-0.0304 ug/L	0.21048	-0.0304 ppb	0.21048 691.42%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-48.0	-0.0804 ug/L	0.03797	-0.0804 ppb	0.03797 47.22%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	1.0	0.3722 ug/L	2.04086	0.3722 ppb	2.04086 548.33%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-5.5	-0.1614 ug/L	3.18274	-0.1614 ppb	3.18274 >999.9%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-31.8	-0.2408 ug/L	0.37479	-0.2408 ppb	0.37479 155.64%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	94.2	1.1199 ug/L	0.13250	1.1199 ppb	0.13250 11.83%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	4.7	0.3672 ug/L	0.53596	0.3672 ppb	0.53596 145.98%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 13:50:52

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	4044.0	4044.0	100 %		13:53:05
1	Y RADIAL	4505.9	4505.9	99.73 %		13:52:45
1	Al 396.153Radial†	4688.7	4756.5	5045.1 ug/L	5045.1 ppb	13:52:45
1	Ca 317.933Radial†	2520.7	2497.2	5073.7 ug/L	5073.7 ppb	13:53:05
1	Fe 238.204 Radial†	421.8	411.7	5163.5 ug/L	5163.5 ppb	13:53:05
1	K 766.490 Radial†	27547.3	24674.6	4919.4 ug/L	4919.4 ppb	13:52:45
1	Mg 279.077 IEC†	120.5	119.5	5219.9 ug/L	5219.9 ppb	13:53:05
1	Na 589.592 Radial†	25649.5	26045.7	10229 ug/L	10229 ppb	13:52:45
1	Sr 421.552†	58843.0	58624.5	499.18 ug/L	499.18 ppb	13:52:45
1	Sc 361.383	840360.4	840360.4	100.06 %		13:54:02
1	Y 371.029	708486.1	708486.1	98.940 %		13:54:02
1	Ag 328.068†	100353.9	100040.1	507.47 ug/L	507.47 ppb	13:54:07
1	As 188.979†	884.1	904.4	489.15 ug/L	489.15 ppb	13:54:27
1	B 249.677†	17599.9	17839.5	488.08 ug/L	488.08 ppb	13:54:07
1	Ba 233.527†	53110.2	53059.8	498.66 ug/L	498.66 ppb	13:54:07
1	Be 313.107†	1217906.0	1221436.8	497.03 ug/L	497.03 ppb	13:54:02
1	Cd 226.502†	35270.5	35415.7	499.38 ug/L	499.38 ppb	13:54:07
1	Co 228.616†	19490.9	19518.1	508.07 ug/L	508.07 ppb	13:54:07
1	Cr 267.716†	38252.1	38134.2	497.52 ug/L	497.52 ppb	13:54:07
1	Cu 324.752†	159121.0	152672.6	495.04 ug/L	495.04 ppb	13:54:07
1	Mn 257.610†	380251.8	379570.9	498.31 ug/L	498.31 ppb	13:54:02
1	Mo 202.031†	5688.7	5671.1	499.05 ug/L	499.05 ppb	13:54:27
1	Ni 231.604†	16270.0	16166.7	504.50 ug/L	504.50 ppb	13:54:07
1	P 214.914†	3604.2	3433.8	2371.6 ug/L	2371.6 ppb	13:54:27
1	Pb 220.353†	3232.9	3289.8	497.39 ug/L	497.39 ppb	13:54:27
1	S 181.975 Axial†	595.7	571.0	999.84 ug/L	999.84 ppb	13:54:27
1	Sb 206.836†	1210.8	1183.4	520.77 ug/L	520.77 ppb	13:54:27
1	Se 196.026†	600.5	617.1	510.51 ug/L	510.51 ppb	13:54:27
1	Si 251.611†	67799.6	67233.4	2497.2 ug/L	2497.2 ppb	13:54:07
1	Sn 189.927†	2257.4	2253.0	499.60 ug/L	499.60 ppb	13:54:27
1	Ti 334.940†	286682.7	287593.8	494.66 ug/L	494.66 ppb	13:54:07
1	Tl 190.801†	1241.7	1266.0	492.81 ug/L	492.81 ppb	13:54:27
1	U 409.014†	15330.7	17356.7	509.01 ug/L	509.01 ppb	13:54:07
1	V 292.402†	63122.5	64512.1	503.98 ug/L	503.98 ppb	13:54:07
1	Zn 213.857†	42709.5	42077.4	495.22 ug/L	495.22 ppb	13:54:07
1	SiO2†	68322.1	67727.7	5397.5 ug/L	5397.5 ppb	13:55:35
2	Sc Radial	4038.4	4038.4	100 %		13:53:30
2	Y RADIAL	4419.7	4419.7	97.82 %		13:53:10
2	Al 396.153Radial†	4591.9	4666.4	4948.9 ug/L	4948.9 ppb	13:53:10
2	Ca 317.933Radial†	2514.1	2494.1	5067.4 ug/L	5067.4 ppb	13:53:30
2	Fe 238.204 Radial†	415.6	406.2	5094.2 ug/L	5094.2 ppb	13:53:30
2	K 766.490 Radial†	27285.7	24451.5	4874.9 ug/L	4874.9 ppb	13:53:10
2	Mg 279.077 IEC†	122.4	121.5	5308.3 ug/L	5308.3 ppb	13:53:30
2	Na 589.592 Radial†	25081.2	25513.6	10020 ug/L	10020 ppb	13:53:10
2	Sr 421.552†	57525.7	57390.4	488.67 ug/L	488.67 ppb	13:53:10
2	Sc 361.383	846854.3	846854.3	100.83 %		13:54:33
2	Y 371.029	712864.1	712864.1	99.552 %		13:54:33
2	Ag 328.068†	101347.1	100256.1	508.53 ug/L	508.53 ppb	13:54:38
2	As 188.979†	912.5	925.7	500.57 ug/L	500.57 ppb	13:54:58
2	B 249.677†	17842.5	17945.2	490.98 ug/L	490.98 ppb	13:54:38
2	Ba 233.527†	53622.2	53160.5	499.60 ug/L	499.60 ppb	13:54:38
2	Be 313.107†	1228699.1	1222807.1	497.59 ug/L	497.59 ppb	13:54:33
2	Cd 226.502†	35543.3	35415.9	499.40 ug/L	499.40 ppb	13:54:38
2	Co 228.616†	19755.9	19631.6	511.03 ug/L	511.03 ppb	13:54:38
2	Cr 267.716†	38587.6	38173.8	498.03 ug/L	498.03 ppb	13:54:38
2	Cu 324.752†	160676.3	152995.6	496.08 ug/L	496.08 ppb	13:54:38
2	Mn 257.610†	384358.4	380729.4	499.82 ug/L	499.82 ppb	13:54:33
2	Mo 202.031†	5758.8	5697.1	501.32 ug/L	501.32 ppb	13:54:58
2	Ni 231.604†	16448.7	16219.2	506.14 ug/L	506.14 ppb	13:54:38

2	P 214.914†	3644.8	3446.5	2380.6 ug/L	2380.6 ppb	13:54:58
2	Pb 220.353†	3256.2	3288.1	497.13 ug/L	497.13 ppb	13:54:58
2	S 181.975 Axial†	603.4	574.0	1005.3 ug/L	1005.3 ppb	13:54:58
2	Sb 206.836†	1238.5	1201.6	528.66 ug/L	528.66 ppb	13:54:58
2	Se 196.026†	609.3	621.2	513.56 ug/L	513.56 ppb	13:54:58
2	Si 251.611†	68622.5	67529.9	2508.2 ug/L	2508.2 ppb	13:54:38
2	Sn 189.927†	2307.4	2285.2	506.73 ug/L	506.73 ppb	13:54:58
2	Ti 334.940†	289790.3	288478.6	496.17 ug/L	496.17 ppb	13:54:38
2	Tl 190.801†	1272.6	1287.2	501.01 ug/L	501.01 ppb	13:54:58
2	U 409.014†	15604.4	17510.6	513.55 ug/L	513.55 ppb	13:54:38
2	V 292.402†	63590.2	64492.2	503.88 ug/L	503.88 ppb	13:54:38
2	Zn 213.857†	43096.8	42134.2	495.89 ug/L	495.89 ppb	13:54:38
2	SiO2†	68125.9	67009.5	5340.1 ug/L	5340.1 ppb	13:55:40
3	Sc Radial	4046.3	4046.3	100 %		13:53:55
3	Y RADIAL	4454.7	4454.7	98.60 %		13:53:35
3	Al 396.153Radial†	4627.1	4692.5	4976.9 ug/L	4976.9 ppb	13:53:35
3	Ca 317.933Radial†	2528.4	2503.4	5086.3 ug/L	5086.3 ppb	13:53:55
3	Fe 238.204 Radial†	420.9	410.6	5149.7 ug/L	5149.7 ppb	13:53:55
3	K 766.490 Radial†	27392.2	24504.7	4885.5 ug/L	4885.5 ppb	13:53:35
3	Mg 279.077 IEC†	122.6	121.6	5309.9 ug/L	5309.9 ppb	13:53:55
3	Na 589.592 Radial†	25262.9	25646.1	10072 ug/L	10072 ppb	13:53:35
3	Sr 421.552†	57999.4	57751.1	491.74 ug/L	491.74 ppb	13:53:35
3	Sc 361.383	842137.7	842137.7	100.27 %		13:55:04
3	Y 371.029	708731.8	708731.8	98.975 %		13:55:04
3	Ag 328.068†	99642.5	99119.1	502.81 ug/L	502.81 ppb	13:55:09
3	As 188.979†	901.9	920.3	497.61 ug/L	497.61 ppb	13:55:29
3	B 249.677†	17475.1	17677.9	483.64 ug/L	483.64 ppb	13:55:09
3	Ba 233.527†	52913.4	52751.5	495.76 ug/L	495.76 ppb	13:55:09
3	Be 313.107†	1218643.0	1219603.0	496.28 ug/L	496.28 ppb	13:55:04
3	Cd 226.502†	35055.1	35126.5	495.30 ug/L	495.30 ppb	13:55:09
3	Co 228.616†	19413.2	19399.5	504.99 ug/L	504.99 ppb	13:55:09
3	Cr 267.716†	38045.2	37847.1	493.78 ug/L	493.78 ppb	13:55:09
3	Cu 324.752†	157947.7	151166.8	490.16 ug/L	490.16 ppb	13:55:09
3	Mn 257.610†	381504.5	380018.1	498.89 ug/L	498.89 ppb	13:55:04
3	Mo 202.031†	5703.1	5673.5	499.25 ug/L	499.25 ppb	13:55:29
3	Ni 231.604†	16230.9	16093.3	502.21 ug/L	502.21 ppb	13:55:09
3	P 214.914†	3618.6	3440.6	2377.4 ug/L	2377.4 ppb	13:55:29
3	Pb 220.353†	3231.4	3281.5	496.13 ug/L	496.13 ppb	13:55:29
3	S 181.975 Axial†	596.2	570.2	998.49 ug/L	998.49 ppb	13:55:29
3	Sb 206.836†	1212.1	1182.2	520.29 ug/L	520.29 ppb	13:55:29
3	Se 196.026†	597.2	612.5	506.77 ug/L	506.77 ppb	13:55:29
3	Si 251.611†	67449.7	66741.4	2478.9 ug/L	2478.9 ppb	13:55:09
3	Sn 189.927†	2269.8	2260.6	501.28 ug/L	501.28 ppb	13:55:29
3	Ti 334.940†	285085.7	285396.4	490.87 ug/L	490.87 ppb	13:55:09
3	Tl 190.801†	1250.0	1271.6	494.99 ug/L	494.99 ppb	13:55:29
3	U 409.014†	15215.1	17209.1	504.68 ug/L	504.68 ppb	13:55:09
3	V 292.402†	62618.2	63876.0	499.08 ug/L	499.08 ppb	13:55:09
3	Zn 213.857†	42482.8	41761.2	491.48 ug/L	491.48 ppb	13:55:09
3	SiO2†	68406.1	67667.3	5392.7 ug/L	5392.7 ppb	13:55:45

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843117.5	100.39 %	0.400			0.40%
Sc Radial	4042.9	100 %	0.1			0.10%
Y 371.029	710027.3	99.155 %	0.3435			0.35%
Y RADIAL	4460.1	98.72 %	0.959			0.97%
Ag 328.068†	99805.1	506.27 ug/L	3.047	506.27 ppb	3.047	0.60%
QC value within limits for Ag 328.068 Recovery = 101.25%						
Al 396.153Radial†	4705.1	4990.3 ug/L	49.46	4990.3 ppb	49.46	0.99%
QC value within limits for Al 396.153Radial Recovery = 99.81%						
As 188.979†	916.8	495.78 ug/L	5.924	495.78 ppb	5.924	1.19%
QC value within limits for As 188.979 Recovery = 99.16%						
B 249.677†	17820.8	487.57 ug/L	3.696	487.57 ppb	3.696	0.76%
QC value within limits for B 249.677 Recovery = 97.51%						
Ba 233.527†	52990.6	498.01 ug/L	2.003	498.01 ppb	2.003	0.40%
QC value within limits for Ba 233.527 Recovery = 99.60%						
Be 313.107†	1221282.3	496.97 ug/L	0.659	496.97 ppb	0.659	0.13%
QC value within limits for Be 313.107 Recovery = 99.39%						
Ca 317.933Radial†	2498.2	5075.8 ug/L	9.63	5075.8 ppb	9.63	0.19%

QC value within limits for Ca 317.933 Radial Recovery = 101.52%						
Cd 226.502†	35319.4	498.03 ug/L	2.359	498.03 ppb	2.359	0.47%
QC value within limits for Cd 226.502 Recovery = 99.61%						
Co 228.616†	19516.4	508.03 ug/L	3.018	508.03 ppb	3.018	0.59%
QC value within limits for Co 228.616 Recovery = 101.61%						
Cr 267.716†	38051.7	496.44 ug/L	2.322	496.44 ppb	2.322	0.47%
QC value within limits for Cr 267.716 Recovery = 99.29%						
Cu 324.752†	152278.4	493.76 ug/L	3.162	493.76 ppb	3.162	0.64%
QC value within limits for Cu 324.752 Recovery = 98.75%						
Fe 238.204 Radial†	409.5	5135.8 ug/L	36.69	5135.8 ppb	36.69	0.71%
QC value within limits for Fe 238.204 Radial Recovery = 102.72%						
K 766.490 Radial†	24543.6	4893.3 ug/L	23.22	4893.3 ppb	23.22	0.47%
QC value within limits for K 766.490 Radial Recovery = 97.87%						
Mg 279.077 IEC†	120.9	5279.4 ug/L	51.52	5279.4 ppb	51.52	0.98%
QC value within limits for Mg 279.077 IEC Recovery = 105.59%						
Mn 257.610†	380106.2	499.01 ug/L	0.761	499.01 ppb	0.761	0.15%
QC value within limits for Mn 257.610 Recovery = 99.80%						
Mo 202.031†	5680.6	499.87 ug/L	1.259	499.87 ppb	1.259	0.25%
QC value within limits for Mo 202.031 Recovery = 99.97%						
Na 589.592 Radial†	25735.1	10107 ug/L	108.8	10107 ppb	108.8	1.08%
QC value within limits for Na 589.592 Radial Recovery = 101.07%						
Ni 231.604†	16159.7	504.28 ug/L	1.972	504.28 ppb	1.972	0.39%
QC value within limits for Ni 231.604 Recovery = 100.86%						
P 214.914†	3440.3	2376.5 ug/L	4.57	2376.5 ppb	4.57	0.19%
QC value within limits for P 214.914 Recovery = 95.06%						
Pb 220.353†	3286.5	496.88 ug/L	0.664	496.88 ppb	0.664	0.13%
QC value within limits for Pb 220.353 Recovery = 99.38%						
S 181.975 Axial†	571.7	1001.2 ug/L	3.58	1001.2 ppb	3.58	0.36%
QC value within limits for S 181.975 Axial Recovery = 100.12%						
Sb 206.836†	1189.1	523.24 ug/L	4.705	523.24 ppb	4.705	0.90%
QC value within limits for Sb 206.836 Recovery = 104.65%						
Se 196.026†	616.9	510.28 ug/L	3.403	510.28 ppb	3.403	0.67%
QC value within limits for Se 196.026 Recovery = 102.06%						
Si 251.611†	67168.2	2494.7 ug/L	14.82	2494.7 ppb	14.82	0.59%
QC value within limits for Si 251.611 Recovery = 99.79%						
Sn 189.927†	2266.3	502.54 ug/L	3.731	502.54 ppb	3.731	0.74%
QC value within limits for Sn 189.927 Recovery = 100.51%						
Sr 421.552†	57922.0	493.20 ug/L	5.403	493.20 ppb	5.403	1.10%
QC value within limits for Sr 421.552 Recovery = 98.64%						
Ti 334.940†	287156.3	493.90 ug/L	2.728	493.90 ppb	2.728	0.55%
QC value within limits for Ti 334.940 Recovery = 98.78%						
Tl 190.801†	1274.9	496.27 ug/L	4.247	496.27 ppb	4.247	0.86%
QC value within limits for Tl 190.801 Recovery = 99.25%						
U 409.014†	17358.8	509.08 ug/L	4.435	509.08 ppb	4.435	0.87%
QC value within limits for U 409.014 Recovery = 101.82%						
V 292.402†	64293.4	502.32 ug/L	2.800	502.32 ppb	2.800	0.56%
QC value within limits for V 292.402 Recovery = 100.46%						
Zn 213.857†	41990.9	494.20 ug/L	2.373	494.20 ppb	2.373	0.48%
QC value within limits for Zn 213.857 Recovery = 98.84%						
SiO2†	67468.2	5376.8 ug/L	31.86	5376.8 ppb	31.86	0.59%
QC value within limits for SiO2 Recovery = 100.55%						
All analyte(s) passed QC.						

Sequence No.: 10
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/25/2010 13:57:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4058.9	4058.9	101 %		14:00:08
1	Y RADIAL	4458.4	4458.4	98.68 %		13:59:48
1	Al 396.153Radial†	-73.2	6.9	7.3267 ug/L	7.3267 ppb	14:00:08
1	Ca 317.933Radial†	30.1	12.7	25.764 ug/L	25.764 ppb	14:00:08
1	Fe 238.204 Radial†	9.5	0.4	5.6043 ug/L	5.6043 ppb	14:00:08
1	K 766.490 Radial†	2743.0	-77.2	-15.420 ug/L	-15.420 ppb	13:59:48
1	Mg 279.077 IEC†	3.1	2.4	105.62 ug/L	105.62 ppb	14:00:08
1	Na 589.592 Radial†	-447.7	16.0	6.2689 ug/L	6.2689 ppb	13:59:48
1	Sr 421.552†	140.1	69.2	0.5890 ug/L	0.5890 ppb	13:59:48
1	Sc 361.383	838243.7	838243.7	99.808 %		14:01:05
1	Y 371.029	715520.3	715520.3	99.923 %		14:01:05
1	Ag 328.068†	167.6	-85.4	-0.4265 ug/L	-0.4265 ppb	14:01:05
1	As 188.979†	-25.3	-4.5	-2.4064 ug/L	-2.4064 ppb	14:01:25
1	B 249.677†	-220.5	29.2	0.8029 ug/L	0.8029 ppb	14:01:25
1	Ba 233.527†	69.2	50.8	0.4778 ug/L	0.4778 ppb	14:01:25
1	Be 313.107†	-4065.1	189.8	0.0776 ug/L	0.0776 ppb	14:01:05
1	Cd 226.502†	-151.5	14.6	0.2052 ug/L	0.2052 ppb	14:01:25
1	Co 228.616†	-37.4	1.5	0.0391 ug/L	0.0391 ppb	14:01:25
1	Cr 267.716†	113.3	18.6	0.2431 ug/L	0.2431 ppb	14:01:25
1	Cu 324.752†	6616.3	276.2	0.8959 ug/L	0.8959 ppb	14:01:05
1	Mn 257.610†	1002.3	551.8	0.7202 ug/L	0.7202 ppb	14:01:25
1	Mo 202.031†	19.2	5.0	0.4417 ug/L	0.4417 ppb	14:01:25
1	Ni 231.604†	89.6	-3.9	-0.1205 ug/L	-0.1205 ppb	14:01:25
1	P 214.914†	181.8	14.0	9.8659 ug/L	9.8659 ppb	14:01:25
1	Pb 220.353†	-54.2	4.5	0.6826 ug/L	0.6826 ppb	14:01:25
1	S 181.975 Axial†	25.0	0.7	1.2449 ug/L	1.2449 ppb	14:01:25
1	Sb 206.836†	15.8	-10.8	-4.5919 ug/L	-4.5919 ppb	14:01:25
1	Se 196.026†	-17.1	-0.2	-0.1145 ug/L	-0.1145 ppb	14:01:25
1	Si 251.611†	591.2	66.9	2.4852 ug/L	2.4852 ppb	14:01:25
1	Sn 189.927†	4.0	0.9	0.2085 ug/L	0.2085 ppb	14:01:25
1	Ti 334.940†	-950.1	131.4	0.2207 ug/L	0.2207 ppb	14:01:05
1	Tl 190.801†	-20.2	4.8	1.8662 ug/L	1.8662 ppb	14:01:25
1	U 409.014†	-2022.9	8.4	0.2451 ug/L	0.2451 ppb	14:01:05
1	V 292.402†	-1329.8	95.1	0.7411 ug/L	0.7411 ppb	14:01:05
1	Zn 213.857†	720.8	115.7	1.3738 ug/L	1.3738 ppb	14:01:25
1	SiO2†	613.7	61.5	4.8993 ug/L	4.8993 ppb	14:02:21
2	Sc Radial	3830.0	3830.0	94.9 %		14:00:33
2	Y RADIAL	4455.2	4455.2	98.61 %		14:00:13
2	Al 396.153Radial†	-72.3	3.5	3.6648 ug/L	3.6648 ppb	14:00:33
2	Ca 317.933Radial†	37.9	22.7	46.157 ug/L	46.157 ppb	14:00:33
2	Fe 238.204 Radial†	11.2	2.8	34.408 ug/L	34.408 ppb	14:00:33
2	K 766.490 Radial†	2966.2	320.8	63.999 ug/L	63.999 ppb	14:00:13
2	Mg 279.077 IEC†	-0.4	-1.1	-49.444 ug/L	-49.444 ppb	14:00:33
2	Na 589.592 Radial†	-323.6	120.0	47.138 ug/L	47.138 ppb	14:00:13
2	Sr 421.552†	200.6	141.3	1.2028 ug/L	1.2028 ppb	14:00:13
2	Sc 361.383	840601.1	840601.1	100.09 %		14:01:30
2	Y 371.029	717400.3	717400.3	100.19 %		14:01:30
2	Ag 328.068†	222.7	-30.9	-0.1451 ug/L	-0.1451 ppb	14:01:30
2	As 188.979†	-23.5	-2.7	-1.4315 ug/L	-1.4315 ppb	14:01:50
2	B 249.677†	-233.5	16.9	0.4575 ug/L	0.4575 ppb	14:01:50
2	Ba 233.527†	99.6	81.0	0.7598 ug/L	0.7598 ppb	14:01:50
2	Be 313.107†	-4211.1	55.4	0.0226 ug/L	0.0226 ppb	14:01:30
2	Cd 226.502†	-151.0	15.6	0.2154 ug/L	0.2154 ppb	14:01:50
2	Co 228.616†	-34.0	4.9	0.1279 ug/L	0.1279 ppb	14:01:50
2	Cr 267.716†	124.2	29.1	0.3832 ug/L	0.3832 ppb	14:01:50
2	Cu 324.752†	6594.0	235.4	0.7662 ug/L	0.7662 ppb	14:01:30
2	Mn 257.610†	935.9	482.6	0.6386 ug/L	0.6386 ppb	14:01:50
2	Mo 202.031†	17.6	3.3	0.2977 ug/L	0.2977 ppb	14:01:50
2	Ni 231.604†	90.0	-3.7	-0.1161 ug/L	-0.1161 ppb	14:01:50

2	P 214.914†	186.0	17.6	12.465 ug/L	12.465 ppb	14:01:50
2	Pb 220.353†	-63.0	-4.2	-0.6330 ug/L	-0.6330 ppb	14:01:50
2	S 181.975 Axial†	34.1	9.7	16.995 ug/L	16.995 ppb	14:01:50
2	Sb 206.836†	32.2	5.5	2.3592 ug/L	2.3592 ppb	14:01:50
2	Se 196.026†	-19.0	-2.0	-1.4891 ug/L	-1.4891 ppb	14:01:50
2	Si 251.611†	576.9	51.0	1.8946 ug/L	1.8946 ppb	14:01:50
2	Sn 189.927†	6.1	3.0	0.6774 ug/L	0.6774 ppb	14:01:50
2	Ti 334.940†	-1049.8	34.5	0.0703 ug/L	0.0703 ppb	14:01:30
2	Tl 190.801†	-30.1	-5.0	-1.9115 ug/L	-1.9115 ppb	14:01:50
2	U 409.014†	-2108.0	-71.0	-2.0926 ug/L	-2.0926 ppb	14:01:30
2	V 292.402†	-1467.7	-38.8	-0.3053 ug/L	-0.3053 ppb	14:01:30
2	Zn 213.857†	723.4	116.3	1.3765 ug/L	1.3765 ppb	14:01:50
2	SiO2†	603.0	49.1	3.9173 ug/L	3.9173 ppb	14:02:26
3	Sc Radial	3962.8	3962.8	98.2 %		14:00:58
3	Y RADIAL	4487.4	4487.4	99.32 %		14:00:38
3	Al 396.153Radial†	-64.0	14.5	15.437 ug/L	15.437 ppb	14:00:58
3	Ca 317.933Radial†	32.2	15.6	31.716 ug/L	31.716 ppb	14:00:58
3	Fe 238.204 Radial†	12.4	3.7	45.852 ug/L	45.852 ppb	14:00:58
3	K 766.490 Radial†	2728.5	-25.9	-5.1803 ug/L	-5.1803 ppb	14:00:38
3	Mg 279.077 IEC†	2.2	1.5	66.449 ug/L	66.449 ppb	14:00:58
3	Na 589.592 Radial†	-404.2	49.4	19.416 ug/L	19.416 ppb	14:00:38
3	Sr 421.552†	132.8	65.1	0.5544 ug/L	0.5544 ppb	14:00:38
3	Sc 361.383	828569.8	828569.8	98.656 %		14:01:56
3	Y 371.029	705817.8	705817.8	98.568 %		14:01:56
3	Ag 328.068†	260.9	11.0	0.0676 ug/L	0.0676 ppb	14:01:56
3	As 188.979†	-23.8	-3.3	-1.7490 ug/L	-1.7490 ppb	14:02:16
3	B 249.677†	-244.7	2.1	0.0504 ug/L	0.0504 ppb	14:02:16
3	Ba 233.527†	70.4	52.8	0.4963 ug/L	0.4963 ppb	14:02:16
3	Be 313.107†	-4149.9	56.3	0.0239 ug/L	0.0239 ppb	14:01:56
3	Cd 226.502†	-162.1	2.1	0.0253 ug/L	0.0253 ppb	14:02:16
3	Co 228.616†	-33.3	5.2	0.1333 ug/L	0.1333 ppb	14:02:16
3	Cr 267.716†	141.2	48.1	0.6309 ug/L	0.6309 ppb	14:02:16
3	Cu 324.752†	6559.2	295.8	0.9606 ug/L	0.9606 ppb	14:01:56
3	Mn 257.610†	914.9	474.9	0.6249 ug/L	0.6249 ppb	14:02:16
3	Mo 202.031†	12.9	-1.1	-0.0907 ug/L	-0.0907 ppb	14:02:16
3	Ni 231.604†	105.9	13.7	0.4275 ug/L	0.4275 ppb	14:02:16
3	P 214.914†	182.2	16.4	11.595 ug/L	11.595 ppb	14:02:16
3	Pb 220.353†	-53.4	4.7	0.7036 ug/L	0.7036 ppb	14:02:16
3	S 181.975 Axial†	24.1	0.1	0.1369 ug/L	0.1369 ppb	14:02:16
3	Sb 206.836†	36.9	10.8	4.5941 ug/L	4.5941 ppb	14:02:16
3	Se 196.026†	-16.1	0.6	0.6445 ug/L	0.6445 ppb	14:02:16
3	Si 251.611†	582.1	64.5	2.4042 ug/L	2.4042 ppb	14:02:16
3	Sn 189.927†	6.4	3.4	0.7567 ug/L	0.7567 ppb	14:02:16
3	Ti 334.940†	-803.5	268.9	0.4605 ug/L	0.4605 ppb	14:01:56
3	Tl 190.801†	-24.0	0.8	0.3076 ug/L	0.3076 ppb	14:02:16
3	U 409.014†	-1951.7	56.9	1.6673 ug/L	1.6673 ppb	14:01:56
3	V 292.402†	-1420.1	-11.9	-0.0963 ug/L	-0.0963 ppb	14:01:56
3	Zn 213.857†	728.3	131.8	1.5550 ug/L	1.5550 ppb	14:02:16
3	SiO2†	575.4	29.9	2.3904 ug/L	2.3904 ppb	14:02:31

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835804.9	99.518 %		0.7591			0.76%
Sc Radial	3950.6	97.9 %		2.85			2.91%
Y 371.029	712912.8	99.558 %		0.8681			0.87%
Y RADIAL	4467.0	98.87 %		0.393			0.40%
Ag 328.068†	-35.1	-0.1680 ug/L		0.24789	-0.1680 ppb	0.24789	147.57%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	8.3	8.8095 ug/L		6.02450	8.8095 ppb	6.02450	68.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.5	-1.8623 ug/L		0.49720	-1.8623 ppb	0.49720	26.70%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	16.1	0.4369 ug/L		0.37666	0.4369 ppb	0.37666	86.20%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	61.5	0.5780 ug/L		0.15775	0.5780 ppb	0.15775	27.29%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	100.5	0.0414 ug/L		0.03137	0.0414 ppb	0.03137	75.83%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	17.0	34.546 ug/L		10.4868	34.546 ppb	10.4868	30.36%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	10.7	0.1486 ug/L	0.10693	0.1486 ppb	0.10693	71.93%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	3.9	0.1001 ug/L	0.05291	0.1001 ppb	0.05291	52.87%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	31.9	0.4190 ug/L	0.19639	0.4190 ppb	0.19639	46.87%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	269.1	0.8743 ug/L	0.09898	0.8743 ppb	0.09898	11.32%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	2.3	28.622 ug/L	20.7386	28.622 ppb	20.7386	72.46%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	72.6	14.467 ug/L	43.2011	14.467 ppb	43.2011	298.63%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	0.9	40.874 ug/L	80.6315	40.874 ppb	80.6315	197.27%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	503.1	0.6613 ug/L	0.05155	0.6613 ppb	0.05155	7.80%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	2.4	0.2162 ug/L	0.27543	0.2162 ppb	0.27543	127.39%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	61.8	24.274 ug/L	20.8631	24.274 ppb	20.8631	85.95%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	2.0	0.0636 ug/L	0.31511	0.0636 ppb	0.31511	495.08%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	16.0	11.309 ug/L	1.3232	11.309 ppb	1.3232	11.70%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	1.7	0.2511 ug/L	0.76569	0.2511 ppb	0.76569	304.96%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	3.5	6.1255 ug/L	9.42930	6.1255 ppb	9.42930	153.93%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	1.8	0.7871 ug/L	4.79057	0.7871 ppb	4.79057	608.62%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-0.5	-0.3197 ug/L	1.08146	-0.3197 ppb	1.08146	338.26%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	60.8	2.2613 ug/L	0.32018	2.2613 ppb	0.32018	14.16%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	2.5	0.5475 ug/L	0.29624	0.5475 ppb	0.29624	54.10%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	91.9	0.7821 ug/L	0.36475	0.7821 ppb	0.36475	46.64%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	144.9	0.2505 ug/L	0.19679	0.2505 ppb	0.19679	78.56%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	0.2	0.0874 ug/L	1.89840	0.0874 ppb	1.89840	>999.9%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-1.9	-0.0601 ug/L	1.89845	-0.0601 ppb	1.89845	>999.9%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	14.8	0.1131 ug/L	0.55375	0.1131 ppb	0.55375	489.45%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	121.3	1.4351 ug/L	0.10387	1.4351 ppb	0.10387	7.24%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		46.8	3.7357 ug/L	1.26426	3.7357 ppb	1.26426	33.84%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 15:00:52

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	3978.8	3978.8	98.6 %		15:03:04
1	Y RADIAL	4474.7	4474.7	99.04 %		15:02:44
1	Al 396.153Radial†	4629.9	4773.6	5063.2 ug/L	5063.2 ppb	15:02:44
1	Ca 317.933Radial†	2486.6	2503.8	5087.2 ug/L	5087.2 ppb	15:03:04
1	Fe 238.204 Radial†	412.1	408.8	5126.5 ug/L	5126.5 ppb	15:03:04
1	K 766.490 Radial†	27183.0	24756.0	4935.8 ug/L	4935.8 ppb	15:02:44
1	Mg 279.077 IEC†	120.4	121.4	5301.0 ug/L	5301.0 ppb	15:03:04
1	Na 589.592 Radial†	24122.1	24916.9	9785.2 ug/L	9785.2 ppb	15:02:44
1	Sr 421.552†	56711.5	57426.6	488.98 ug/L	488.98 ppb	15:02:44
1	Sc 361.383	840365.2	840365.2	100.06 %		15:04:01
1	Y 371.029	707495.8	707495.8	98.802 %		15:04:01
1	Ag 328.068†	99634.9	99321.1	503.81 ug/L	503.81 ppb	15:04:06
1	As 188.979†	899.5	919.8	497.34 ug/L	497.34 ppb	15:04:26
1	B 249.677†	17377.5	17617.1	481.98 ug/L	481.98 ppb	15:04:06
1	Ba 233.527†	52690.6	52640.1	494.71 ug/L	494.71 ppb	15:04:06
1	Be 313.107†	1216301.3	1219826.2	496.37 ug/L	496.37 ppb	15:04:01
1	Cd 226.502†	35000.3	35145.5	495.57 ug/L	495.57 ppb	15:04:06
1	Co 228.616†	19400.5	19427.6	505.73 ug/L	505.73 ppb	15:04:06
1	Cr 267.716†	37837.8	37719.9	492.12 ug/L	492.12 ppb	15:04:06
1	Cu 324.752†	158060.2	151611.6	491.60 ug/L	491.60 ppb	15:04:06
1	Mn 257.610†	371832.2	371154.2	487.26 ug/L	487.26 ppb	15:04:06
1	Mo 202.031†	5707.1	5689.4	500.65 ug/L	500.65 ppb	15:04:26
1	Ni 231.604†	16175.5	16072.1	501.55 ug/L	501.55 ppb	15:04:06
1	P 214.914†	3614.4	3444.0	2379.7 ug/L	2379.7 ppb	15:04:26
1	Pb 220.353†	3240.7	3297.5	498.57 ug/L	498.57 ppb	15:04:26
1	S 181.975 Axial†	606.2	581.4	1018.1 ug/L	1018.1 ppb	15:04:26
1	Sb 206.836†	1221.3	1193.9	525.26 ug/L	525.26 ppb	15:04:26
1	Se 196.026†	601.3	617.9	511.06 ug/L	511.06 ppb	15:04:26
1	Si 251.611†	67386.7	66820.4	2481.8 ug/L	2481.8 ppb	15:04:06
1	Sn 189.927†	2257.5	2253.0	499.61 ug/L	499.61 ppb	15:04:26
1	Ti 334.940†	284797.7	285708.3	491.41 ug/L	491.41 ppb	15:04:06
1	Tl 190.801†	1246.8	1271.1	494.74 ug/L	494.74 ppb	15:04:26
1	U 409.014†	15230.6	17256.5	506.08 ug/L	506.08 ppb	15:04:06
1	V 292.402†	62410.7	63800.4	498.53 ug/L	498.53 ppb	15:04:06
1	Zn 213.857†	42338.7	41706.5	490.84 ug/L	490.84 ppb	15:04:06
1	SiO2†	67957.1	67362.5	5368.3 ug/L	5368.3 ppb	15:05:33
2	Sc Radial	4035.3	4035.3	100 %		15:03:29
2	Y RADIAL	4431.7	4431.7	98.09 %		15:03:09
2	Al 396.153Radial†	4623.1	4701.1	4986.3 ug/L	4986.3 ppb	15:03:09
2	Ca 317.933Radial†	2495.0	2476.9	5032.4 ug/L	5032.4 ppb	15:03:29
2	Fe 238.204 Radial†	409.6	400.4	5022.4 ug/L	5022.4 ppb	15:03:29
2	K 766.490 Radial†	27236.3	24423.4	4869.5 ug/L	4869.5 ppb	15:03:09
2	Mg 279.077 IEC†	118.8	118.1	5157.8 ug/L	5157.8 ppb	15:03:29
2	Na 589.592 Radial†	23876.0	24328.4	9554.1 ug/L	9554.1 ppb	15:03:09
2	Sr 421.552†	56567.5	56477.4	480.90 ug/L	480.90 ppb	15:03:09
2	Sc 361.383	851485.6	851485.6	101.38 %		15:04:31
2	Y 371.029	715289.6	715289.6	99.890 %		15:04:31
2	Ag 328.068†	100449.5	98824.1	501.27 ug/L	501.27 ppb	15:04:37
2	As 188.979†	905.2	913.7	494.04 ug/L	494.04 ppb	15:04:57
2	B 249.677†	17454.3	17466.0	477.85 ug/L	477.85 ppb	15:04:37
2	Ba 233.527†	52983.8	52241.6	490.97 ug/L	490.97 ppb	15:04:37
2	Be 313.107†	1227735.1	1215228.6	494.50 ug/L	494.50 ppb	15:04:31
2	Cd 226.502†	35179.3	34865.2	491.63 ug/L	491.63 ppb	15:04:37
2	Co 228.616†	19497.3	19269.9	501.61 ug/L	501.61 ppb	15:04:37
2	Cr 267.716†	38113.0	37497.4	489.21 ug/L	489.21 ppb	15:04:37
2	Cu 324.752†	159560.4	151028.2	489.70 ug/L	489.70 ppb	15:04:37
2	Mn 257.610†	374464.9	368897.7	484.30 ug/L	484.30 ppb	15:04:37
2	Mo 202.031†	5703.6	5611.5	493.80 ug/L	493.80 ppb	15:04:57
2	Ni 231.604†	16210.8	15895.8	496.04 ug/L	496.04 ppb	15:04:37

2	P 214.914†	3608.5	3391.0	2341.9 ug/L	2341.9 ppb	15:04:57
2	Pb 220.353†	3215.3	3230.2	488.40 ug/L	488.40 ppb	15:04:57
2	S 181.975 Axial†	596.5	564.0	987.56 ug/L	987.56 ppb	15:04:57
2	Sb 206.836†	1213.4	1170.2	514.97 ug/L	514.97 ppb	15:04:57
2	Se 196.026†	605.2	613.9	507.46 ug/L	507.46 ppb	15:04:57
2	Si 251.611†	67890.0	66437.3	2467.6 ug/L	2467.6 ppb	15:04:37
2	Sn 189.927†	2262.4	2228.4	494.15 ug/L	494.15 ppb	15:04:57
2	Ti 334.940†	287230.5	284390.6	489.15 ug/L	489.15 ppb	15:04:37
2	Tl 190.801†	1233.9	1242.1	483.49 ug/L	483.49 ppb	15:04:57
2	U 409.014†	15424.8	17249.3	505.89 ug/L	505.89 ppb	15:04:37
2	V 292.402†	63078.1	63644.1	497.24 ug/L	497.24 ppb	15:04:37
2	Zn 213.857†	42600.9	41412.6	487.40 ug/L	487.40 ppb	15:04:37
2	SiO2†	67267.2	65795.0	5243.3 ug/L	5243.3 ppb	15:05:38
3	Sc Radial	4022.9	4022.9	99.7 %		15:03:54
3	Y RADIAL	4491.5	4491.5	99.41 %		15:03:34
3	Al 396.153Radial†	4653.7	4745.9	5033.8 ug/L	5033.8 ppb	15:03:34
3	Ca 317.933Radial†	2497.1	2486.7	5052.4 ug/L	5052.4 ppb	15:03:54
3	Fe 238.204 Radial†	412.5	404.6	5074.0 ug/L	5074.0 ppb	15:03:54
3	K 766.490 Radial†	27496.7	24768.0	4938.3 ug/L	4938.3 ppb	15:03:34
3	Mg 279.077 IEC†	114.8	114.4	4998.0 ug/L	4998.0 ppb	15:03:54
3	Na 589.592 Radial†	24011.2	24537.2	9636.1 ug/L	9636.1 ppb	15:03:34
3	Sr 421.552†	56770.7	56854.5	484.11 ug/L	484.11 ppb	15:03:34
3	Sc 361.383	840431.3	840431.3	100.07 %		15:05:02
3	Y 371.029	708222.0	708222.0	98.903 %		15:05:02
3	Ag 328.068†	99494.5	99172.9	503.05 ug/L	503.05 ppb	15:05:08
3	As 188.979†	900.8	921.0	497.98 ug/L	497.98 ppb	15:05:28
3	B 249.677†	17320.2	17558.5	480.38 ug/L	480.38 ppb	15:05:08
3	Ba 233.527†	52505.1	52450.7	492.94 ug/L	492.94 ppb	15:05:08
3	Be 313.107†	1209434.6	1212868.5	493.54 ug/L	493.54 ppb	15:05:02
3	Cd 226.502†	34858.2	35000.7	493.54 ug/L	493.54 ppb	15:05:08
3	Co 228.616†	19270.0	19295.7	502.29 ug/L	502.29 ppb	15:05:08
3	Cr 267.716†	37844.6	37723.7	492.16 ug/L	492.16 ppb	15:05:08
3	Cu 324.752†	157942.6	151481.6	491.17 ug/L	491.17 ppb	15:05:08
3	Mn 257.610†	371131.3	370424.6	486.31 ug/L	486.31 ppb	15:05:08
3	Mo 202.031†	5688.4	5670.3	498.96 ug/L	498.96 ppb	15:05:28
3	Ni 231.604†	16109.7	16005.1	499.46 ug/L	499.46 ppb	15:05:08
3	P 214.914†	3595.0	3424.4	2365.6 ug/L	2365.6 ppb	15:05:28
3	Pb 220.353†	3221.5	3278.1	495.64 ug/L	495.64 ppb	15:05:28
3	S 181.975 Axial†	597.9	573.1	1003.6 ug/L	1003.6 ppb	15:05:28
3	Sb 206.836†	1213.6	1186.1	521.85 ug/L	521.85 ppb	15:05:28
3	Se 196.026†	596.3	612.9	506.87 ug/L	506.87 ppb	15:05:28
3	Si 251.611†	67090.6	66519.1	2470.6 ug/L	2470.6 ppb	15:05:08
3	Sn 189.927†	2239.4	2234.7	495.56 ug/L	495.56 ppb	15:05:28
3	Ti 334.940†	284382.5	285271.0	490.68 ug/L	490.68 ppb	15:05:08
3	Tl 190.801†	1244.5	1268.7	493.80 ug/L	493.80 ppb	15:05:28
3	U 409.014†	15419.4	17444.0	511.61 ug/L	511.61 ppb	15:05:08
3	V 292.402†	62508.5	63893.2	499.23 ug/L	499.23 ppb	15:05:08
3	Zn 213.857†	42243.6	41608.2	489.69 ug/L	489.69 ppb	15:05:08
3	SiO2†	68202.7	67602.5	5387.5 ug/L	5387.5 ppb	15:05:43

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844094.0	100.50 %	0.762			0.76%
Sc Radial	4012.3	99.5 %	0.74			0.74%
Y 371.029	710335.8	99.199 %	0.6013			0.61%
Y RADIAL	4466.0	98.85 %	0.683			0.69%
Ag 328.068†	99106.0	502.71 ug/L	1.304	502.71 ppb	1.304	0.26%
QC value within limits for Ag 328.068 Recovery = 100.54%						
Al 396.153Radial†	4740.2	5027.8 ug/L	38.82	5027.8 ppb	38.82	0.77%
QC value within limits for Al 396.153Radial Recovery = 100.56%						
As 188.979†	918.2	496.45 ug/L	2.115	496.45 ppb	2.115	0.43%
QC value within limits for As 188.979 Recovery = 99.29%						
B 249.677†	17547.2	480.07 ug/L	2.079	480.07 ppb	2.079	0.43%
QC value within limits for B 249.677 Recovery = 96.01%						
Ba 233.527†	52444.1	492.87 ug/L	1.871	492.87 ppb	1.871	0.38%
QC value within limits for Ba 233.527 Recovery = 98.57%						
Be 313.107†	1215974.4	494.80 ug/L	1.438	494.80 ppb	1.438	0.29%
QC value within limits for Be 313.107 Recovery = 98.96%						
Ca 317.933Radial†	2489.2	5057.3 ug/L	27.70	5057.3 ppb	27.70	0.55%

QC value within limits for Ca 317.933 Radial Recovery = 101.15%

Cd 226.502†	35003.8	493.58 ug/L	1.973	493.58 ppb	1.973	0.40%
QC value within limits for Cd 226.502 Recovery = 98.72%						
Co 228.616†	19331.1	503.21 ug/L	2.207	503.21 ppb	2.207	0.44%
QC value within limits for Co 228.616 Recovery = 100.64%						
Cr 267.716†	37647.0	491.16 ug/L	1.692	491.16 ppb	1.692	0.34%
QC value within limits for Cr 267.716 Recovery = 98.23%						
Cu 324.752†	151373.8	490.82 ug/L	0.995	490.82 ppb	0.995	0.20%
QC value within limits for Cu 324.752 Recovery = 98.16%						
Fe 238.204 Radial†	404.6	5074.3 ug/L	52.08	5074.3 ppb	52.08	1.03%
QC value within limits for Fe 238.204 Radial Recovery = 101.49%						
K 766.490 Radial†	24649.1	4914.5 ug/L	39.00	4914.5 ppb	39.00	0.79%
QC value within limits for K 766.490 Radial Recovery = 98.29%						
Mg 279.077 IEC†	117.9	5152.3 ug/L	151.55	5152.3 ppb	151.55	2.94%
QC value within limits for Mg 279.077 IEC Recovery = 103.05%						
Mn 257.610†	370158.8	485.96 ug/L	1.514	485.96 ppb	1.514	0.31%
QC value within limits for Mn 257.610 Recovery = 97.19%						
Mo 202.031†	5657.1	497.80 ug/L	3.572	497.80 ppb	3.572	0.72%
QC value within limits for Mo 202.031 Recovery = 99.56%						
Na 589.592 Radial†	24594.2	9658.5 ug/L	117.17	9658.5 ppb	117.17	1.21%
QC value within limits for Na 589.592 Radial Recovery = 96.58%						
Ni 231.604†	15991.0	499.02 ug/L	2.777	499.02 ppb	2.777	0.56%
QC value within limits for Ni 231.604 Recovery = 99.80%						
P 214.914†	3419.8	2362.4 ug/L	19.06	2362.4 ppb	19.06	0.81%
QC value within limits for P 214.914 Recovery = 94.50%						
Pb 220.353†	3268.6	494.20 ug/L	5.236	494.20 ppb	5.236	1.06%
QC value within limits for Pb 220.353 Recovery = 98.84%						
S 181.975 Axial†	572.8	1003.1 ug/L	15.30	1003.1 ppb	15.30	1.52%
QC value within limits for S 181.975 Axial Recovery = 100.31%						
Sb 206.836†	1183.4	520.70 ug/L	5.242	520.70 ppb	5.242	1.01%
QC value within limits for Sb 206.836 Recovery = 104.14%						
Se 196.026†	614.9	508.46 ug/L	2.264	508.46 ppb	2.264	0.45%
QC value within limits for Se 196.026 Recovery = 101.69%						
Si 251.611†	66592.3	2473.3 ug/L	7.48	2473.3 ppb	7.48	0.30%
QC value within limits for Si 251.611 Recovery = 98.93%						
Sn 189.927†	2238.7	496.44 ug/L	2.831	496.44 ppb	2.831	0.57%
QC value within limits for Sn 189.927 Recovery = 99.29%						
Sr 421.552†	56919.5	484.66 ug/L	4.070	484.66 ppb	4.070	0.84%
QC value within limits for Sr 421.552 Recovery = 96.93%						
Ti 334.940†	285123.3	490.41 ug/L	1.154	490.41 ppb	1.154	0.24%
QC value within limits for Ti 334.940 Recovery = 98.08%						
Tl 190.801†	1260.6	490.68 ug/L	6.241	490.68 ppb	6.241	1.27%
QC value within limits for Tl 190.801 Recovery = 98.14%						
U 409.014†	17316.6	507.86 ug/L	3.246	507.86 ppb	3.246	0.64%
QC value within limits for U 409.014 Recovery = 101.57%						
V 292.402†	63779.2	498.33 ug/L	1.010	498.33 ppb	1.010	0.20%
QC value within limits for V 292.402 Recovery = 99.67%						
Zn 213.857†	41575.8	489.31 ug/L	1.751	489.31 ppb	1.751	0.36%
QC value within limits for Zn 213.857 Recovery = 97.86%						
SiO2†	66920.0	5333.0 ug/L	78.34	5333.0 ppb	78.34	1.47%
QC value within limits for SiO2 Recovery = 99.73%						

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/25/2010 15:07:55

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	4049.0	4049.0	100 %		15:10:08
1	Y RADIAL	4251.7	4251.7	94.10 %		15:09:48
1	Al 396.153Radial†	-79.0	1.0	1.0294 ug/L	1.0294 ppb	15:10:08
1	Ca 317.933Radial†	30.9	13.6	27.624 ug/L	27.624 ppb	15:10:08
1	Fe 238.204 Radial†	16.0	7.0	87.330 ug/L	87.330 ppb	15:10:08
1	K 766.490 Radial†	2621.3	-191.7	-38.297 ug/L	-38.297 ppb	15:09:48
1	Mg 279.077 IEC†	1.3	0.6	25.497 ug/L	25.497 ppb	15:10:08
1	Na 589.592 Radial†	-399.4	63.0	24.736 ug/L	24.736 ppb	15:09:48
1	Sr 421.552†	97.3	26.9	0.2290 ug/L	0.2290 ppb	15:09:48
1	Sc 361.383	837525.5	837525.5	99.723 %		15:11:05
1	Y 371.029	713954.7	713954.7	99.704 %		15:11:05
1	Ag 328.068†	233.0	-19.7	-0.0714 ug/L	-0.0714 ppb	15:11:05
1	As 188.979†	-23.6	-2.8	-1.4911 ug/L	-1.4911 ppb	15:11:25
1	B 249.677†	-347.7	-98.5	-2.7219 ug/L	-2.7219 ppb	15:11:25
1	Ba 233.527†	48.2	29.8	0.2843 ug/L	0.2843 ppb	15:11:25
1	Be 313.107†	-4335.5	-84.8	-0.0340 ug/L	-0.0340 ppb	15:11:05
1	Cd 226.502†	-173.8	-7.9	-0.1202 ug/L	-0.1202 ppb	15:11:25
1	Co 228.616†	-40.9	-2.1	-0.0560 ug/L	-0.0560 ppb	15:11:25
1	Cr 267.716†	95.6	0.9	0.0218 ug/L	0.0218 ppb	15:11:25
1	Cu 324.752†	6511.7	177.1	0.5775 ug/L	0.5775 ppb	15:11:05
1	Mn 257.610†	1001.0	551.3	0.7309 ug/L	0.7309 ppb	15:11:25
1	Mo 202.031†	16.0	1.8	0.1682 ug/L	0.1682 ppb	15:11:25
1	Ni 231.604†	99.6	6.3	0.1964 ug/L	0.1964 ppb	15:11:25
1	P 214.914†	184.9	17.2	12.165 ug/L	12.165 ppb	15:11:25
1	Pb 220.353†	-52.1	6.6	0.9817 ug/L	0.9817 ppb	15:11:25
1	S 181.975 Axial†	28.7	4.4	7.7009 ug/L	7.7009 ppb	15:11:25
1	Sb 206.836†	26.4	-0.2	-0.0352 ug/L	-0.0352 ppb	15:11:25
1	Se 196.026†	-22.2	-5.4	-4.0105 ug/L	-4.0105 ppb	15:11:25
1	Si 251.611†	600.7	76.9	2.8617 ug/L	2.8617 ppb	15:11:25
1	Sn 189.927†	12.9	9.8	2.1756 ug/L	2.1756 ppb	15:11:25
1	Ti 334.940†	-977.8	102.8	0.1774 ug/L	0.1774 ppb	15:11:05
1	Tl 190.801†	-25.9	-0.9	-0.3364 ug/L	-0.3364 ppb	15:11:25
1	U 409.014†	-1948.6	81.2	2.3787 ug/L	2.3787 ppb	15:11:05
1	V 292.402†	-1314.2	109.7	0.8402 ug/L	0.8402 ppb	15:11:05
1	Zn 213.857†	755.8	151.5	1.7845 ug/L	1.7845 ppb	15:11:25
1	SiO2†	646.2	94.6	7.5532 ug/L	7.5532 ppb	15:12:36
2	Sc Radial	4073.1	4073.1	101 %		15:10:33
2	Y RADIAL	4547.3	4547.3	100.6 %		15:10:13
2	Al 396.153Radial†	-67.3	13.0	13.821 ug/L	13.821 ppb	15:10:33
2	Ca 317.933Radial†	36.9	19.4	39.422 ug/L	39.422 ppb	15:10:33
2	Fe 238.204 Radial†	15.9	6.8	84.626 ug/L	84.626 ppb	15:10:33
2	K 766.490 Radial†	2567.8	-260.2	-51.973 ug/L	-51.973 ppb	15:10:13
2	Mg 279.077 IEC†	2.7	1.9	84.928 ug/L	84.928 ppb	15:10:33
2	Na 589.592 Radial†	-410.4	54.5	21.390 ug/L	21.390 ppb	15:10:13
2	Sr 421.552†	52.8	-17.7	-0.1512 ug/L	-0.1512 ppb	15:10:13
2	Sc 361.383	833423.5	833423.5	99.234 %		15:11:30
2	Y 371.029	710884.3	710884.3	99.275 %		15:11:30
2	Ag 328.068†	212.3	-39.5	-0.1722 ug/L	-0.1722 ppb	15:11:30
2	As 188.979†	-20.5	0.2	0.1387 ug/L	0.1387 ppb	15:11:50
2	B 249.677†	-328.6	-81.0	-2.2403 ug/L	-2.2403 ppb	15:11:50
2	Ba 233.527†	56.7	38.6	0.3658 ug/L	0.3658 ppb	15:11:50
2	Be 313.107†	-4238.6	-8.6	-0.0035 ug/L	-0.0035 ppb	15:11:30
2	Cd 226.502†	-172.7	-7.6	-0.1159 ug/L	-0.1159 ppb	15:11:50
2	Co 228.616†	-29.8	8.9	0.2316 ug/L	0.2316 ppb	15:11:50
2	Cr 267.716†	77.3	-17.0	-0.2125 ug/L	-0.2125 ppb	15:11:50
2	Cu 324.752†	6563.5	261.4	0.8515 ug/L	0.8515 ppb	15:11:30
2	Mn 257.610†	1042.1	597.7	0.7891 ug/L	0.7891 ppb	15:11:50
2	Mo 202.031†	18.3	4.2	0.3791 ug/L	0.3791 ppb	15:11:50
2	Ni 231.604†	83.2	-9.8	-0.3050 ug/L	-0.3050 ppb	15:11:50

2	P 214.914†	179.7	12.8	9.0036 ug/L	9.0036 ppb	15:11:50
2	Pb 220.353†	-37.4	21.1	3.1773 ug/L	3.1773 ppb	15:11:50
2	S 181.975 Axial†	22.6	-1.7	-2.9006 ug/L	-2.9006 ppb	15:11:50
2	Sb 206.836†	19.9	-6.5	-2.7427 ug/L	-2.7427 ppb	15:11:50
2	Se 196.026†	-18.1	-1.3	-0.7638 ug/L	-0.7638 ppb	15:11:50
2	Si 251.611†	614.8	94.1	3.5005 ug/L	3.5005 ppb	15:11:50
2	Sn 189.927†	10.1	7.1	1.5742 ug/L	1.5742 ppb	15:11:50
2	Ti 334.940†	-1070.9	4.2	0.0052 ug/L	0.0052 ppb	15:11:30
2	Tl 190.801†	-16.0	8.9	3.4617 ug/L	3.4617 ppb	15:11:50
2	U 409.014†	-1987.0	32.9	0.9580 ug/L	0.9580 ppb	15:11:30
2	V 292.402†	-1356.3	60.8	0.4653 ug/L	0.4653 ppb	15:11:30
2	Zn 213.857†	785.7	185.3	2.1896 ug/L	2.1896 ppb	15:11:50
2	SiO2†	657.3	109.0	8.6996 ug/L	8.6996 ppb	15:12:56
3	Sc Radial	4129.2	4129.2	102 %		15:10:58
3	Y RADIAL	4507.3	4507.3	99.76 %		15:10:38
3	Al 396.153Radial†	-75.5	5.9	6.3646 ug/L	6.3646 ppb	15:10:58
3	Ca 317.933Radial†	34.9	16.9	34.375 ug/L	34.375 ppb	15:10:58
3	Fe 238.204 Radial†	12.0	2.8	34.447 ug/L	34.447 ppb	15:10:58
3	K 766.490 Radial†	2630.9	-233.1	-46.549 ug/L	-46.549 ppb	15:10:38
3	Mg 279.077 IEC†	3.6	2.8	124.13 ug/L	124.13 ppb	15:10:58
3	Na 589.592 Radial†	-392.7	77.2	30.327 ug/L	30.327 ppb	15:10:38
3	Sr 421.552†	82.4	10.5	0.0889 ug/L	0.0889 ppb	15:10:38
3	Sc 361.383	841735.2	841735.2	100.22 %		15:11:55
3	Y 371.029	717451.5	717451.5	100.19 %		15:11:55
3	Ag 328.068†	211.3	-42.5	-0.2026 ug/L	-0.2026 ppb	15:11:55
3	As 188.979†	-20.9	-0.0	0.0088 ug/L	0.0088 ppb	15:12:15
3	B 249.677†	-318.9	-68.0	-1.8756 ug/L	-1.8756 ppb	15:12:15
3	Ba 233.527†	55.1	36.5	0.3452 ug/L	0.3452 ppb	15:12:15
3	Be 313.107†	-4343.5	-71.1	-0.0288 ug/L	-0.0288 ppb	15:11:55
3	Cd 226.502†	-151.8	14.9	0.2075 ug/L	0.2075 ppb	15:12:15
3	Co 228.616†	-34.7	4.3	0.1087 ug/L	0.1087 ppb	15:12:15
3	Cr 267.716†	120.7	25.5	0.3354 ug/L	0.3354 ppb	15:12:15
3	Cu 324.752†	6538.5	171.1	0.5553 ug/L	0.5553 ppb	15:11:55
3	Mn 257.610†	971.7	517.1	0.6767 ug/L	0.6767 ppb	15:12:15
3	Mo 202.031†	1.7	-12.5	-1.0973 ug/L	-1.0973 ppb	15:12:15
3	Ni 231.604†	95.8	2.0	0.0614 ug/L	0.0614 ppb	15:12:15
3	P 214.914†	189.9	21.2	15.111 ug/L	15.111 ppb	15:12:15
3	Pb 220.353†	-46.4	12.6	1.8885 ug/L	1.8885 ppb	15:12:15
3	S 181.975 Axial†	29.3	4.9	8.5863 ug/L	8.5863 ppb	15:12:15
3	Sb 206.836†	25.4	-1.3	-0.5621 ug/L	-0.5621 ppb	15:12:15
3	Se 196.026†	-20.9	-3.9	-3.0185 ug/L	-3.0185 ppb	15:12:15
3	Si 251.611†	608.1	81.3	3.0404 ug/L	3.0404 ppb	15:12:15
3	Sn 189.927†	3.6	0.5	0.1074 ug/L	0.1074 ppb	15:12:15
3	Ti 334.940†	-1060.1	25.6	0.0372 ug/L	0.0372 ppb	15:11:55
3	Tl 190.801†	-26.4	-1.3	-0.5014 ug/L	-0.5014 ppb	15:12:15
3	U 409.014†	-1947.0	92.6	2.7191 ug/L	2.7191 ppb	15:11:55
3	V 292.402†	-1303.1	127.3	0.9686 ug/L	0.9686 ppb	15:11:55
3	Zn 213.857†	757.1	149.0	1.7638 ug/L	1.7638 ppb	15:12:15
3	SiO2†	644.7	89.9	7.2120 ug/L	7.2120 ppb	15:13:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837561.4	99.727 %		0.4948			0.50%
Sc Radial	4083.8	101 %		1.0			1.01%
Y 371.029	714096.8	99.724 %		0.4589			0.46%
Y RADIAL	4435.4	98.17 %		3.550			3.62%
Ag 328.068†	-33.9	-0.1487 ug/L		0.06865	-0.1487 ppb	0.06865	46.16%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	6.6	7.0717 ug/L		6.42508	7.0717 ppb	6.42508	90.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.9	-0.4479 ug/L		0.90576	-0.4479 ppb	0.90576	202.24%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-82.5	-2.2793 ug/L		0.42453	-2.2793 ppb	0.42453	18.63%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	35.0	0.3318 ug/L		0.04240	0.3318 ppb	0.04240	12.78%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-54.9	-0.0221 ug/L		0.01634	-0.0221 ppb	0.01634	73.94%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	16.6	33.807 ug/L		5.9196	33.807 ppb	5.9196	17.51%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-0.2	-0.0095 ug/L	0.18795	-0.0095 ppb	0.18795 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	3.7	0.0948 ug/L	0.14428	0.0948 ppb	0.14428 152.25%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	3.1	0.0482 ug/L	0.27490	0.0482 ppb	0.27490 570.12%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	203.2	0.6614 ug/L	0.16501	0.6614 ppb	0.16501 24.95%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	5.5	68.801 ug/L	29.7817	68.801 ppb	29.7817 43.29%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-228.3	-45.606 ug/L	6.8866	-45.606 ppb	6.8866 15.10%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.8	78.184 ug/L	49.6597	78.184 ppb	49.6597 63.52%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	555.4	0.7323 ug/L	0.05621	0.7323 ppb	0.05621 7.68%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-2.2	-0.1833 ug/L	0.79850	-0.1833 ppb	0.79850 435.60%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	64.9	25.484 ug/L	4.5152	25.484 ppb	4.5152 17.72%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-0.5	-0.0157 ug/L	0.25940	-0.0157 ppb	0.25940 >999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	17.1	12.093 ug/L	3.0543	12.093 ppb	3.0543 25.26%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	13.4	2.0158 ug/L	1.10334	2.0158 ppb	1.10334 54.73%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	2.5	4.4622 ug/L	6.39171	4.4622 ppb	6.39171 143.24%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-2.7	-1.1133 ug/L	1.43544	-1.1133 ppb	1.43544 128.93%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-3.5	-2.5976 ug/L	1.66377	-2.5976 ppb	1.66377 64.05%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	84.1	3.1342 ug/L	0.32957	3.1342 ppb	0.32957 10.52%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	5.8	1.2857 ug/L	1.06382	1.2857 ppb	1.06382 82.74%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	6.6	0.0556 ug/L	0.19230	0.0556 ppb	0.19230 346.00%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	44.2	0.0732 ug/L	0.09163	0.0732 ppb	0.09163 125.10%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	2.3	0.8746 ug/L	2.24202	0.8746 ppb	2.24202 256.34%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	68.9	2.0186 ug/L	0.93415	2.0186 ppb	0.93415 46.28%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	99.3	0.7580 ug/L	0.26148	0.7580 ppb	0.26148 34.50%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	161.9	1.9126 ug/L	0.24005	1.9126 ppb	0.24005 12.55%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	97.8	7.8216 ug/L	0.77927	7.8216 ppb	0.77927 9.96%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/25/2010 16:11:21

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	3955.1	3955.1	98.0 %		16:13:33
1	Y RADIAL	4264.1	4264.1	94.38 %		16:13:13
1	Al 396.153Radial†	4353.6	4519.9	4793.1 ug/L	4793.1 ppb	16:13:13
1	Ca 317.933Radial†	2507.2	2539.9	5160.5 ug/L	5160.5 ppb	16:13:33
1	Fe 238.204 Radial†	418.1	417.4	5234.4 ug/L	5234.4 ppb	16:13:33
1	K 766.490 Radial†	26095.8	23812.0	4747.3 ug/L	4747.3 ppb	16:13:13
1	Mg 279.077 IEC†	115.5	117.1	5114.9 ug/L	5114.9 ppb	16:13:33
1	Na 589.592 Radial†	23882.0	24818.2	9746.5 ug/L	9746.5 ppb	16:13:13
1	Sr 421.552†	54468.9	55482.9	472.43 ug/L	472.43 ppb	16:13:13
1	Sc 361.383	851735.6	851735.6	101.41 %		16:14:30
1	Y 371.029	716677.2	716677.2	100.08 %		16:14:30
1	Ag 328.068†	102350.6	100669.6	510.66 ug/L	510.66 ppb	16:14:36
1	As 188.979†	904.7	913.0	493.79 ug/L	493.79 ppb	16:14:56
1	B 249.677†	17886.5	17887.2	489.36 ug/L	489.36 ppb	16:14:36
1	Ba 233.527†	54021.1	53249.0	500.44 ug/L	500.44 ppb	16:14:36
1	Be 313.107†	1223562.6	1210758.8	492.70 ug/L	492.70 ppb	16:14:30
1	Cd 226.502†	35970.2	35634.9	502.47 ug/L	502.47 ppb	16:14:36
1	Co 228.616†	19899.8	19661.2	511.77 ug/L	511.77 ppb	16:14:36
1	Cr 267.716†	38784.0	38148.1	497.71 ug/L	497.71 ppb	16:14:36
1	Cu 324.752†	162631.4	154010.2	499.37 ug/L	499.37 ppb	16:14:36
1	Mn 257.610†	381507.5	375733.7	493.29 ug/L	493.29 ppb	16:14:36
1	Mo 202.031†	5709.1	5615.2	494.14 ug/L	494.14 ppb	16:14:56
1	Ni 231.604†	16531.3	16207.2	505.76 ug/L	505.76 ppb	16:14:36
1	P 214.914†	3656.8	3437.6	2373.3 ug/L	2373.3 ppb	16:14:56
1	Pb 220.353†	3210.4	3224.4	487.45 ug/L	487.45 ppb	16:14:56
1	S 181.975 Axial†	596.7	564.0	987.65 ug/L	987.65 ppb	16:14:56
1	Sb 206.836†	1234.5	1190.6	523.66 ug/L	523.66 ppb	16:14:56
1	Se 196.026†	614.6	623.0	515.30 ug/L	515.30 ppb	16:14:56
1	Si 251.611†	69288.9	67797.0	2518.2 ug/L	2518.2 ppb	16:14:36
1	Sn 189.927†	2265.3	2230.6	494.65 ug/L	494.65 ppb	16:14:56
1	Ti 334.940†	292870.9	289869.2	498.59 ug/L	498.59 ppb	16:14:36
1	Tl 190.801†	1247.7	1255.4	488.69 ug/L	488.69 ppb	16:14:56
1	U 409.014†	15779.8	17594.8	516.01 ug/L	516.01 ppb	16:14:36
1	V 292.402†	64101.9	64635.3	504.86 ug/L	504.86 ppb	16:14:36
1	Zn 213.857†	43396.4	42184.7	496.47 ug/L	496.47 ppb	16:14:36
1	SiO2†	67954.3	66453.1	5295.8 ug/L	5295.8 ppb	16:16:03
2	Sc Radial	4089.1	4089.1	101 %		16:13:59
2	Y RADIAL	4456.6	4456.6	98.64 %		16:13:38
2	Al 396.153Radial†	4622.2	4639.4	4920.3 ug/L	4920.3 ppb	16:13:38
2	Ca 317.933Radial†	2516.3	2465.1	5008.4 ug/L	5008.4 ppb	16:13:59
2	Fe 238.204 Radial†	420.7	406.1	5092.6 ug/L	5092.6 ppb	16:13:59
2	K 766.490 Radial†	27245.4	24074.0	4799.7 ug/L	4799.7 ppb	16:13:38
2	Mg 279.077 IEC†	124.0	121.6	5311.9 ug/L	5311.9 ppb	16:13:59
2	Na 589.592 Radial†	24954.2	25077.9	9848.5 ug/L	9848.5 ppb	16:13:38
2	Sr 421.552†	57722.5	56872.6	484.26 ug/L	484.26 ppb	16:13:38
2	Sc 361.383	844511.7	844511.7	100.55 %		16:15:01
2	Y 371.029	710119.0	710119.0	99.168 %		16:15:01
2	Ag 328.068†	99552.0	98749.7	500.92 ug/L	500.92 ppb	16:15:07
2	As 188.979†	911.4	927.2	501.29 ug/L	501.29 ppb	16:15:27
2	B 249.677†	17196.5	17351.9	474.70 ug/L	474.70 ppb	16:15:07
2	Ba 233.527†	52682.8	52373.8	492.21 ug/L	492.21 ppb	16:15:07
2	Be 313.107†	1216567.1	1214122.0	494.05 ug/L	494.05 ppb	16:15:01
2	Cd 226.502†	34951.6	34925.3	492.47 ug/L	492.47 ppb	16:15:07
2	Co 228.616†	19388.6	19320.6	502.94 ug/L	502.94 ppb	16:15:07
2	Cr 267.716†	37862.2	37558.5	490.01 ug/L	490.01 ppb	16:15:07
2	Cu 324.752†	157569.6	150348.1	487.50 ug/L	487.50 ppb	16:15:07
2	Mn 257.610†	371566.0	369064.9	484.52 ug/L	484.52 ppb	16:15:07
2	Mo 202.031†	5708.1	5662.5	498.28 ug/L	498.28 ppb	16:15:27
2	Ni 231.604†	16094.9	15912.6	496.57 ug/L	496.57 ppb	16:15:07

2	P 214.914†	3619.1	3430.9	2371.0 ug/L	2371.0 ppb	16:15:27
2	Pb 220.353†	3219.3	3260.3	492.94 ug/L	492.94 ppb	16:15:27
2	S 181.975 Axial†	606.8	579.1	1014.1 ug/L	1014.1 ppb	16:15:27
2	Sb 206.836†	1217.9	1184.5	521.16 ug/L	521.16 ppb	16:15:27
2	Se 196.026†	613.2	626.8	517.96 ug/L	517.96 ppb	16:15:27
2	Si 251.611†	67320.9	66424.3	2467.1 ug/L	2467.1 ppb	16:15:07
2	Sn 189.927†	2248.8	2233.4	495.24 ug/L	495.24 ppb	16:15:27
2	Ti 334.940†	284804.9	284318.0	489.01 ug/L	489.01 ppb	16:15:07
2	Tl 190.801†	1237.8	1256.1	488.89 ug/L	488.89 ppb	16:15:27
2	U 409.014†	15178.5	17130.0	502.37 ug/L	502.37 ppb	16:15:07
2	V 292.402†	62516.5	63599.3	496.94 ug/L	496.94 ppb	16:15:07
2	Zn 213.857†	42311.4	41471.7	488.09 ug/L	488.09 ppb	16:15:07
2	SiO2†	68280.0	67350.2	5367.4 ug/L	5367.4 ppb	16:16:08
3	Sc Radial	4069.0	4069.0	101 %		16:14:24
3	Y RADIAL	4521.2	4521.2	100.1 %		16:14:04
3	Al 396.153Radial†	4660.6	4699.9	4985.3 ug/L	4985.3 ppb	16:14:04
3	Ca 317.933Radial†	2520.8	2481.9	5042.5 ug/L	5042.5 ppb	16:14:24
3	Fe 238.204 Radial†	423.5	410.8	5152.3 ug/L	5152.3 ppb	16:14:24
3	K 766.490 Radial†	27644.1	24601.9	4905.0 ug/L	4905.0 ppb	16:14:04
3	Mg 279.077 IEC†	119.8	118.0	5156.1 ug/L	5156.1 ppb	16:14:24
3	Na 589.592 Radial†	25232.9	25475.6	10005 ug/L	10005 ppb	16:14:04
3	Sr 421.552†	58133.1	57560.5	490.12 ug/L	490.12 ppb	16:14:04
3	Sc 361.383	858583.8	858583.8	102.23 %		16:15:32
3	Y 371.029	722897.7	722897.7	100.95 %		16:15:32
3	Ag 328.068†	100684.4	98234.8	498.33 ug/L	498.33 ppb	16:15:37
3	As 188.979†	893.9	895.2	484.15 ug/L	484.15 ppb	16:15:57
3	B 249.677†	17528.9	17396.7	475.93 ug/L	475.93 ppb	16:15:37
3	Ba 233.527†	53210.8	52031.6	489.00 ug/L	489.00 ppb	16:15:37
3	Be 313.107†	1234647.0	1211978.2	493.17 ug/L	493.17 ppb	16:15:32
3	Cd 226.502†	35314.6	34710.7	489.43 ug/L	489.43 ppb	16:15:37
3	Co 228.616†	19559.2	19171.5	499.04 ug/L	499.04 ppb	16:15:37
3	Cr 267.716†	38324.8	37393.8	487.87 ug/L	487.87 ppb	16:15:37
3	Cu 324.752†	159706.5	149870.0	485.95 ug/L	485.95 ppb	16:15:37
3	Mn 257.610†	376059.2	367403.8	482.35 ug/L	482.35 ppb	16:15:37
3	Mo 202.031†	5700.4	5561.8	489.44 ug/L	489.44 ppb	16:15:57
3	Ni 231.604†	16289.3	15840.3	494.31 ug/L	494.31 ppb	16:15:37
3	P 214.914†	3594.6	3348.0	2311.6 ug/L	2311.6 ppb	16:15:57
3	Pb 220.353†	3215.5	3204.1	484.45 ug/L	484.45 ppb	16:15:57
3	S 181.975 Axial†	597.9	560.5	981.44 ug/L	981.44 ppb	16:15:57
3	Sb 206.836†	1217.7	1164.5	512.32 ug/L	512.32 ppb	16:15:57
3	Se 196.026†	600.7	604.5	500.38 ug/L	500.38 ppb	16:15:57
3	Si 251.611†	67986.6	65978.2	2450.6 ug/L	2450.6 ppb	16:15:37
3	Sn 189.927†	2247.1	2195.0	486.76 ug/L	486.76 ppb	16:15:57
3	Ti 334.940†	288252.7	283048.3	486.84 ug/L	486.84 ppb	16:15:37
3	Tl 190.801†	1247.2	1245.1	484.63 ug/L	484.63 ppb	16:15:57
3	U 409.014†	15421.6	17120.4	502.08 ug/L	502.08 ppb	16:15:37
3	V 292.402†	63232.1	63280.3	494.35 ug/L	494.35 ppb	16:15:37
3	Zn 213.857†	42705.1	41167.1	484.48 ug/L	484.48 ppb	16:15:37
3	SiO2†	67876.5	65842.5	5247.2 ug/L	5247.2 ppb	16:16:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	851610.4	101.40 %	0.838			0.83%
Sc Radial	4037.7	100 %	1.8			1.79%
Y 371.029	716564.6	100.07 %	0.892			0.89%
Y RADIAL	4414.0	97.70 %	2.960			3.03%
Ag 328.068†	99218.0	503.30 ug/L	6.502	503.30 ppb	6.502	1.29%
QC value within limits for Ag 328.068 Recovery = 100.66%						
Al 396.153Radial†	4619.7	4899.6 ug/L	97.73	4899.6 ppb	97.73	1.99%
QC value within limits for Al 396.153Radial Recovery = 97.99%						
As 188.979†	911.8	493.08 ug/L	8.591	493.08 ppb	8.591	1.74%
QC value within limits for As 188.979 Recovery = 98.62%						
B 249.677†	17545.3	480.00 ug/L	8.134	480.00 ppb	8.134	1.69%
QC value within limits for B 249.677 Recovery = 96.00%						
Ba 233.527†	52551.5	493.88 ug/L	5.899	493.88 ppb	5.899	1.19%
QC value within limits for Ba 233.527 Recovery = 98.78%						
Be 313.107†	1212286.3	493.31 ug/L	0.682	493.31 ppb	0.682	0.14%
QC value within limits for Be 313.107 Recovery = 98.66%						
Ca 317.933Radial†	2495.6	5070.5 ug/L	79.83	5070.5 ppb	79.83	1.57%

QC value within limits for Ca 317.933 Radial Recovery = 101.41%

Cd 226.502†	35090.3	494.79 ug/L	6.822	494.79 ppb	6.822	1.38%
QC value within limits for Cd 226.502 Recovery = 98.96%						
Co 228.616†	19384.4	504.59 ug/L	6.523	504.59 ppb	6.523	1.29%
QC value within limits for Co 228.616 Recovery = 100.92%						
Cr 267.716†	37700.1	491.87 ug/L	5.174	491.87 ppb	5.174	1.05%
QC value within limits for Cr 267.716 Recovery = 98.37%						
Cu 324.752†	151409.4	490.94 ug/L	7.343	490.94 ppb	7.343	1.50%
QC value within limits for Cu 324.752 Recovery = 98.19%						
Fe 238.204 Radial†	411.4	5159.8 ug/L	71.22	5159.8 ppb	71.22	1.38%
QC value within limits for Fe 238.204 Radial Recovery = 103.20%						
K 766.490 Radial†	24162.6	4817.3 ug/L	80.29	4817.3 ppb	80.29	1.67%
QC value within limits for K 766.490 Radial Recovery = 96.35%						
Mg 279.077 IEC†	118.9	5194.3 ug/L	103.92	5194.3 ppb	103.92	2.00%
QC value within limits for Mg 279.077 IEC Recovery = 103.89%						
Mn 257.610†	370734.1	486.72 ug/L	5.792	486.72 ppb	5.792	1.19%
QC value within limits for Mn 257.610 Recovery = 97.34%						
Mo 202.031†	5613.2	493.95 ug/L	4.424	493.95 ppb	4.424	0.90%
QC value within limits for Mo 202.031 Recovery = 98.79%						
Na 589.592 Radial†	25123.9	9866.5 ug/L	130.03	9866.5 ppb	130.03	1.32%
QC value within limits for Na 589.592 Radial Recovery = 98.67%						
Ni 231.604†	15986.7	498.88 ug/L	6.063	498.88 ppb	6.063	1.22%
QC value within limits for Ni 231.604 Recovery = 99.78%						
P 214.914†	3405.5	2352.0 ug/L	34.97	2352.0 ppb	34.97	1.49%
QC value within limits for P 214.914 Recovery = 94.08%						
Pb 220.353†	3229.6	488.28 ug/L	4.303	488.28 ppb	4.303	0.88%
QC value within limits for Pb 220.353 Recovery = 97.66%						
S 181.975 Axial†	567.8	994.38 ug/L	17.328	994.38 ppb	17.328	1.74%
QC value within limits for S 181.975 Axial Recovery = 99.44%						
Sb 206.836†	1179.9	519.05 ug/L	5.955	519.05 ppb	5.955	1.15%
QC value within limits for Sb 206.836 Recovery = 103.81%						
Se 196.026†	618.1	511.21 ug/L	9.477	511.21 ppb	9.477	1.85%
QC value within limits for Se 196.026 Recovery = 102.24%						
Si 251.611†	66733.1	2478.6 ug/L	35.28	2478.6 ppb	35.28	1.42%
QC value within limits for Si 251.611 Recovery = 99.14%						
Sn 189.927†	2219.7	492.22 ug/L	4.738	492.22 ppb	4.738	0.96%
QC value within limits for Sn 189.927 Recovery = 98.44%						
Sr 421.552†	56638.7	482.27 ug/L	9.013	482.27 ppb	9.013	1.87%
QC value within limits for Sr 421.552 Recovery = 96.45%						
Ti 334.940†	285745.2	491.48 ug/L	6.250	491.48 ppb	6.250	1.27%
QC value within limits for Ti 334.940 Recovery = 98.30%						
Tl 190.801†	1252.2	487.40 ug/L	2.403	487.40 ppb	2.403	0.49%
QC value within limits for Tl 190.801 Recovery = 97.48%						
U 409.014†	17281.7	506.82 ug/L	7.961	506.82 ppb	7.961	1.57%
QC value within limits for U 409.014 Recovery = 101.36%						
V 292.402†	63838.3	498.72 ug/L	5.475	498.72 ppb	5.475	1.10%
QC value within limits for V 292.402 Recovery = 99.74%						
Zn 213.857†	41607.8	489.68 ug/L	6.148	489.68 ppb	6.148	1.26%
QC value within limits for Zn 213.857 Recovery = 97.94%						
SiO2†	66548.6	5303.5 ug/L	60.47	5303.5 ppb	60.47	1.14%
QC value within limits for SiO2 Recovery = 99.18%						

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/25/2010 16:18:23

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	4034.0	4034.0	100 %		16:20:36
1	Y RADIAL	4423.4	4423.4	97.91 %		16:20:16
1	Al 396.153Radial†	-68.7	10.9	11.674 ug/L	11.674 ppb	16:20:36
1	Ca 317.933Radial†	38.4	21.2	43.119 ug/L	43.119 ppb	16:20:36
1	Fe 238.204 Radial†	15.8	6.8	85.359 ug/L	85.359 ppb	16:20:36
1	K 766.490 Radial†	2850.4	47.1	9.3727 ug/L	9.3727 ppb	16:20:16
1	Mg 279.077 IEC†	1.7	1.0	44.231 ug/L	44.231 ppb	16:20:36
1	Na 589.592 Radial†	-417.9	43.0	16.904 ug/L	16.904 ppb	16:20:16
1	Sr 421.552†	85.5	15.5	0.1313 ug/L	0.1313 ppb	16:20:16
1	Sc 361.383	837863.7	837863.7	99.763 %		16:21:33
1	Y 371.029	714441.1	714441.1	99.772 %		16:21:33
1	Ag 328.068†	222.0	-30.8	-0.1304 ug/L	-0.1304 ppb	16:21:33
1	As 188.979†	-15.9	4.9	2.6600 ug/L	2.6600 ppb	16:21:53
1	B 249.677†	-373.7	-124.5	-3.4343 ug/L	-3.4343 ppb	16:21:53
1	Ba 233.527†	39.8	21.4	0.2041 ug/L	0.2041 ppb	16:21:53
1	Be 313.107†	-4371.5	-119.2	-0.0481 ug/L	-0.0481 ppb	16:21:33
1	Cd 226.502†	-171.5	-5.5	-0.0857 ug/L	-0.0857 ppb	16:21:53
1	Co 228.616†	-52.4	-13.6	-0.3563 ug/L	-0.3563 ppb	16:21:53
1	Cr 267.716†	87.8	-6.9	-0.0818 ug/L	-0.0818 ppb	16:21:53
1	Cu 324.752†	6502.8	165.5	0.5389 ug/L	0.5389 ppb	16:21:33
1	Mn 257.610†	923.0	472.8	0.6270 ug/L	0.6270 ppb	16:21:53
1	Mo 202.031†	8.0	-6.2	-0.5352 ug/L	-0.5352 ppb	16:21:53
1	Ni 231.604†	88.5	-4.9	-0.1535 ug/L	-0.1535 ppb	16:21:53
1	P 214.914†	192.4	24.6	17.512 ug/L	17.512 ppb	16:21:53
1	Pb 220.353†	-51.0	7.7	1.1461 ug/L	1.1461 ppb	16:21:53
1	S 181.975 Axial†	35.2	10.9	19.063 ug/L	19.063 ppb	16:21:53
1	Sb 206.836†	26.3	-0.3	-0.1289 ug/L	-0.1289 ppb	16:21:53
1	Se 196.026†	-24.6	-7.8	-5.9250 ug/L	-5.9250 ppb	16:21:53
1	Si 251.611†	624.0	100.0	3.7310 ug/L	3.7310 ppb	16:21:53
1	Sn 189.927†	5.0	1.9	0.4222 ug/L	0.4222 ppb	16:21:53
1	Ti 334.940†	-1010.4	70.5	0.1218 ug/L	0.1218 ppb	16:21:33
1	Tl 190.801†	-17.4	7.6	2.9417 ug/L	2.9417 ppb	16:21:53
1	U 409.014†	-1900.7	130.0	3.8150 ug/L	3.8150 ppb	16:21:33
1	V 292.402†	-1348.8	75.5	0.5701 ug/L	0.5701 ppb	16:21:33
1	Zn 213.857†	761.9	157.3	1.8564 ug/L	1.8564 ppb	16:21:53
1	SiO2†	646.4	94.6	7.5745 ug/L	7.5745 ppb	16:23:04
2	Sc Radial	4069.2	4069.2	101 %		16:21:01
2	Y RADIAL	4631.5	4631.5	102.5 %		16:20:41
2	Al 396.153Radial†	-71.6	8.7	9.2599 ug/L	9.2599 ppb	16:21:01
2	Ca 317.933Radial†	34.5	17.0	34.535 ug/L	34.535 ppb	16:21:01
2	Fe 238.204 Radial†	15.4	6.3	78.660 ug/L	78.660 ppb	16:21:01
2	K 766.490 Radial†	2721.4	-105.4	-21.076 ug/L	-21.076 ppb	16:20:41
2	Mg 279.077 IEC†	2.2	1.5	64.836 ug/L	64.836 ppb	16:21:01
2	Na 589.592 Radial†	-373.0	91.1	35.769 ug/L	35.769 ppb	16:20:41
2	Sr 421.552†	74.2	3.5	0.0300 ug/L	0.0300 ppb	16:20:41
2	Sc 361.383	834943.8	834943.8	99.415 %		16:21:58
2	Y 371.029	711436.5	711436.5	99.352 %		16:21:58
2	Ag 328.068†	40.5	-212.7	-1.0497 ug/L	-1.0497 ppb	16:21:58
2	As 188.979†	-19.1	1.6	0.8816 ug/L	0.8816 ppb	16:22:18
2	B 249.677†	-359.9	-111.8	-3.0865 ug/L	-3.0865 ppb	16:22:18
2	Ba 233.527†	77.3	59.3	0.5575 ug/L	0.5575 ppb	16:22:18
2	Be 313.107†	-4383.7	-146.8	-0.0594 ug/L	-0.0594 ppb	16:21:58
2	Cd 226.502†	-152.6	12.9	0.1732 ug/L	0.1732 ppb	16:22:18
2	Co 228.616†	-42.5	-3.9	-0.1030 ug/L	-0.1030 ppb	16:22:18
2	Cr 267.716†	110.7	16.4	0.2210 ug/L	0.2210 ppb	16:22:18
2	Cu 324.752†	6563.6	249.4	0.8127 ug/L	0.8127 ppb	16:21:58
2	Mn 257.610†	1114.6	668.7	0.8825 ug/L	0.8825 ppb	16:22:18
2	Mo 202.031†	8.9	-5.2	-0.4509 ug/L	-0.4509 ppb	16:22:18
2	Ni 231.604†	77.9	-15.3	-0.4763 ug/L	-0.4763 ppb	16:22:18

2	P 214.914†	190.8	23.7	16.848 ug/L	16.848 ppb	16:22:18
2	Pb 220.353†	-50.7	7.9	1.1736 ug/L	1.1736 ppb	16:22:18
2	S 181.975 Axial†	31.4	7.2	12.654 ug/L	12.654 ppb	16:22:18
2	Sb 206.836†	27.2	0.7	0.3279 ug/L	0.3279 ppb	16:22:18
2	Se 196.026†	-23.1	-6.3	-4.8086 ug/L	-4.8086 ppb	16:22:18
2	Si 251.611†	711.8	190.6	7.1007 ug/L	7.1007 ppb	16:22:18
2	Sn 189.927†	10.6	7.6	1.6830 ug/L	1.6830 ppb	16:22:18
2	Ti 334.940†	-1034.0	43.3	0.0735 ug/L	0.0735 ppb	16:21:58
2	Tl 190.801†	-30.2	-5.3	-2.0420 ug/L	-2.0420 ppb	16:22:18
2	U 409.014†	-2007.1	16.3	0.4701 ug/L	0.4701 ppb	16:21:58
2	V 292.402†	-1446.3	-27.3	-0.2264 ug/L	-0.2264 ppb	16:21:58
2	Zn 213.857†	783.6	181.8	2.1495 ug/L	2.1495 ppb	16:22:18
2	SiO2†	697.1	147.8	11.824 ug/L	11.824 ppb	16:23:24
3	Sc Radial	4035.2	4035.2	100 %		16:21:26
3	Y RADIAL	4587.6	4587.6	101.5 %		16:21:06
3	Al 396.153Radial†	-63.3	16.3	17.375 ug/L	17.375 ppb	16:21:26
3	Ca 317.933Radial†	32.1	14.9	30.228 ug/L	30.228 ppb	16:21:26
3	Fe 238.204 Radial†	13.6	4.6	57.741 ug/L	57.741 ppb	16:21:26
3	K 766.490 Radial†	2709.5	-94.6	-18.905 ug/L	-18.905 ppb	16:21:06
3	Mg 279.077 IEC†	4.6	3.8	167.85 ug/L	167.85 ppb	16:21:26
3	Na 589.592 Radial†	-418.0	43.1	16.910 ug/L	16.910 ppb	16:21:06
3	Sr 421.552†	81.4	11.3	0.0959 ug/L	0.0959 ppb	16:21:06
3	Sc 361.383	832588.3	832588.3	99.135 %		16:22:23
3	Y 371.029	710157.9	710157.9	99.174 %		16:22:23
3	Ag 328.068†	102.1	-150.4	-0.7370 ug/L	-0.7370 ppb	16:22:23
3	As 188.979†	-24.7	-4.1	-2.1845 ug/L	-2.1845 ppb	16:22:43
3	B 249.677†	-355.5	-108.4	-2.9886 ug/L	-2.9886 ppb	16:22:43
3	Ba 233.527†	67.0	49.1	0.4637 ug/L	0.4637 ppb	16:22:43
3	Be 313.107†	-4339.9	-115.0	-0.0462 ug/L	-0.0462 ppb	16:22:23
3	Cd 226.502†	-171.8	-6.9	-0.1036 ug/L	-0.1036 ppb	16:22:43
3	Co 228.616†	-47.5	-9.0	-0.2331 ug/L	-0.2331 ppb	16:22:43
3	Cr 267.716†	114.2	20.3	0.2715 ug/L	0.2715 ppb	16:22:43
3	Cu 324.752†	6498.0	202.0	0.6585 ug/L	0.6585 ppb	16:22:23
3	Mn 257.610†	1312.8	871.9	1.1428 ug/L	1.1428 ppb	16:22:43
3	Mo 202.031†	22.8	8.8	0.7804 ug/L	0.7804 ppb	16:22:43
3	Ni 231.604†	95.9	3.1	0.0978 ug/L	0.0978 ppb	16:22:43
3	P 214.914†	190.0	23.4	16.677 ug/L	16.677 ppb	16:22:43
3	Pb 220.353†	-47.4	11.0	1.6588 ug/L	1.6588 ppb	16:22:43
3	S 181.975 Axial†	28.9	4.8	8.4107 ug/L	8.4107 ppb	16:22:43
3	Sb 206.836†	24.0	-2.4	-1.0090 ug/L	-1.0090 ppb	16:22:43
3	Se 196.026†	-17.5	-0.7	-0.3445 ug/L	-0.3445 ppb	16:22:43
3	Si 251.611†	703.6	184.3	6.8530 ug/L	6.8530 ppb	16:22:43
3	Sn 189.927†	3.2	0.1	0.0284 ug/L	0.0284 ppb	16:22:43
3	Ti 334.940†	-940.7	134.4	0.2220 ug/L	0.2220 ppb	16:22:23
3	Tl 190.801†	-23.2	1.6	0.6411 ug/L	0.6411 ppb	16:22:43
3	U 409.014†	-2053.8	-36.6	-1.0830 ug/L	-1.0830 ppb	16:22:23
3	V 292.402†	-1316.7	99.3	0.7688 ug/L	0.7688 ppb	16:22:23
3	Zn 213.857†	771.3	171.6	2.0287 ug/L	2.0287 ppb	16:22:43
3	SiO2†	633.4	85.6	6.8185 ug/L	6.8185 ppb	16:23:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835132.0	99.438 %	0.3147			0.32%
Sc Radial	4046.1	100 %	0.5			0.49%
Y 371.029	712011.8	99.433 %	0.3071			0.31%
Y RADIAL	4547.5	100.7 %	2.43			2.41%
Ag 328.068†	-131.3	-0.6390 ug/L	0.46738	-0.6390 ppb	0.46738	73.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	12.770 ug/L	4.1671	12.770 ppb	4.1671	32.63%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.8	0.4524 ug/L	2.45063	0.4524 ppb	2.45063	541.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-114.9	-3.1698 ug/L	0.23425	-3.1698 ppb	0.23425	7.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	43.2	0.4084 ug/L	0.18305	0.4084 ppb	0.18305	44.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-127.0	-0.0512 ug/L	0.00716	-0.0512 ppb	0.00716	13.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	17.7	35.960 ug/L	6.5627	35.960 ppb	6.5627	18.25%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	0.2	-0.0054 ug/L	0.15488	-0.0054 ppb	0.15488	>999.9%
QC value within limits for Cd 226.502	Recovery = Not calculated					
Co 228.616†	-8.8	-0.2308 ug/L	0.12667	-0.2308 ppb	0.12667	54.89%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	9.9	0.1369 ug/L	0.19105	0.1369 ppb	0.19105	139.55%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 324.752†	205.6	0.6700 ug/L	0.13724	0.6700 ppb	0.13724	20.48%
QC value within limits for Cu 324.752	Recovery = Not calculated					
Fe 238.204 Radial†	5.9	73.920 ug/L	14.4062	73.920 ppb	14.4062	19.49%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated					
K 766.490 Radial†	-51.0	-10.203 ug/L	16.9875	-10.203 ppb	16.9875	166.50%
QC value within limits for K 766.490 Radial	Recovery = Not calculated					
Mg 279.077 IEC†	2.1	92.305 ug/L	66.2294	92.305 ppb	66.2294	71.75%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated					
Mn 257.610†	671.1	0.8841 ug/L	0.25790	0.8841 ppb	0.25790	29.17%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-0.9	-0.0686 ug/L	0.73642	-0.0686 ppb	0.73642	>999.9%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592 Radial†	59.1	23.194 ug/L	10.8902	23.194 ppb	10.8902	46.95%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated					
Ni 231.604†	-5.7	-0.1773 ug/L	0.28778	-0.1773 ppb	0.28778	162.27%
QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	23.9	17.013 ug/L	0.4412	17.013 ppb	0.4412	2.59%
QC value within limits for P 214.914	Recovery = Not calculated					
Pb 220.353†	8.8	1.3261 ug/L	0.28842	1.3261 ppb	0.28842	21.75%
QC value within limits for Pb 220.353	Recovery = Not calculated					
S 181.975 Axial†	7.6	13.376 ug/L	5.3629	13.376 ppb	5.3629	40.09%
QC value within limits for S 181.975 Axial	Recovery = Not calculated					
Sb 206.836†	-0.7	-0.2700 ug/L	0.67950	-0.2700 ppb	0.67950	251.67%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-4.9	-3.6927 ug/L	2.95287	-3.6927 ppb	2.95287	79.97%
QC value within limits for Se 196.026	Recovery = Not calculated					
Si 251.611†	158.3	5.8949 ug/L	1.87809	5.8949 ppb	1.87809	31.86%
QC value within limits for Si 251.611	Recovery = Not calculated					
Sn 189.927†	3.2	0.7112 ug/L	0.86435	0.7112 ppb	0.86435	121.54%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 421.552†	10.1	0.0857 ug/L	0.05143	0.0857 ppb	0.05143	60.00%
QC value within limits for Sr 421.552	Recovery = Not calculated					
Ti 334.940†	82.7	0.1391 ug/L	0.07574	0.1391 ppb	0.07574	54.45%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Tl 190.801†	1.3	0.5136 ug/L	2.49430	0.5136 ppb	2.49430	485.64%
QC value within limits for Tl 190.801	Recovery = Not calculated					
U 409.014†	36.6	1.0674 ug/L	2.50300	1.0674 ppb	2.50300	234.50%
QC value within limits for U 409.014	Recovery = Not calculated					
V 292.402†	49.2	0.3708 ug/L	0.52671	0.3708 ppb	0.52671	142.03%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	170.2	2.0115 ug/L	0.14732	2.0115 ppb	0.14732	7.32%
QC value within limits for Zn 213.857	Recovery = Not calculated					
SiO2†	109.4	8.7389 ug/L	2.69826	8.7389 ppb	2.69826	30.88%
QC value within limits for SiO2	Recovery = Not calculated					

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 3/25/2010 16:32:43

Plasma On Time: 3/22/2010 06:16:18

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\032510.sif

Batch ID:

Results Data Set: 032510A

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/25/2010 16:32:44

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	4027.7	4027.7	99.8 %		16:34:56
1	Y RADIAL	4324.2	4324.2	95.71 %		16:34:36
1	Al 396.153Radial†	4671.4	4758.1	5047.0 ug/L	5047.0 ppb	16:34:36
1	Ca 317.933Radial†	2476.5	2463.1	5004.3 ug/L	5004.3 ppb	16:34:56
1	Fe 238.204 Radial†	411.3	402.9	5053.7 ug/L	5053.7 ppb	16:34:56
1	K 766.490 Radial†	27394.6	24632.9	4911.1 ug/L	4911.1 ppb	16:34:36
1	Mg 279.077 IEC†	118.8	118.3	5166.7 ug/L	5166.7 ppb	16:34:56
1	Na 589.592 Radial†	25413.0	25912.3	10176 ug/L	10176 ppb	16:34:36
1	Sr 421.552†	58364.4	58382.7	497.12 ug/L	497.12 ppb	16:34:36
1	Sc 361.383	839614.0	839614.0	99.971 %		16:35:53
1	Y 371.029	707105.6	707105.6	98.747 %		16:35:53
1	Ag 328.068†	100202.1	99977.5	507.10 ug/L	507.10 ppb	16:35:59
1	As 188.979†	901.7	922.8	498.97 ug/L	498.97 ppb	16:36:19
1	B 249.677†	17403.4	17658.5	483.13 ug/L	483.13 ppb	16:35:59
1	Ba 233.527†	52722.9	52719.6	495.46 ug/L	495.46 ppb	16:35:59
1	Be 313.107†	1204619.2	1209228.3	492.07 ug/L	492.07 ppb	16:35:53
1	Cd 226.502†	35046.3	35222.7	496.67 ug/L	496.67 ppb	16:35:59
1	Co 228.616†	19401.8	19446.3	506.20 ug/L	506.20 ppb	16:35:59
1	Cr 267.716†	37956.5	37872.4	494.10 ug/L	494.10 ppb	16:35:59
1	Cu 324.752†	158811.1	152504.1	494.48 ug/L	494.48 ppb	16:35:59
1	Mn 257.610†	372566.4	372221.1	488.66 ug/L	488.66 ppb	16:35:59
1	Mo 202.031†	5649.6	5637.0	496.04 ug/L	496.04 ppb	16:36:19
1	Ni 231.604†	16151.2	16062.3	501.24 ug/L	501.24 ppb	16:35:59
1	P 214.914†	3585.3	3418.1	2360.5 ug/L	2360.5 ppb	16:36:19
1	Pb 220.353†	3191.6	3251.4	491.61 ug/L	491.61 ppb	16:36:19
1	S 181.975 Axial†	588.6	564.4	988.37 ug/L	988.37 ppb	16:36:19
1	Sb 206.836†	1208.3	1182.0	520.01 ug/L	520.01 ppb	16:36:19
1	Se 196.026†	609.6	626.8	517.87 ug/L	517.87 ppb	16:36:19
1	Si 251.611†	67480.6	66974.6	2487.6 ug/L	2487.6 ppb	16:35:59
1	Sn 189.927†	2234.1	2231.7	494.88 ug/L	494.88 ppb	16:36:19
1	Ti 334.940†	285988.1	287153.7	493.89 ug/L	493.89 ppb	16:35:59
1	Tl 190.801†	1229.5	1254.9	488.50 ug/L	488.50 ppb	16:36:19
1	U 409.014†	15625.5	17665.2	518.11 ug/L	518.11 ppb	16:35:59
1	V 292.402†	62666.0	64111.5	500.89 ug/L	500.89 ppb	16:35:59
1	Zn 213.857†	42415.7	41821.5	492.21 ug/L	492.21 ppb	16:35:59
1	SiO2†	66150.2	65615.8	5228.9 ug/L	5228.9 ppb	16:37:26
2	Sc Radial	4035.2	4035.2	100 %		16:35:21
2	Y RADIAL	4496.7	4496.7	99.53 %		16:35:01
2	Al 396.153Radial†	4564.5	4642.6	4923.9 ug/L	4923.9 ppb	16:35:01
2	Ca 317.933Radial†	2473.2	2455.2	4988.4 ug/L	4988.4 ppb	16:35:21
2	Fe 238.204 Radial†	411.2	402.1	5043.1 ug/L	5043.1 ppb	16:35:21
2	K 766.490 Radial†	27054.3	24242.2	4833.2 ug/L	4833.2 ppb	16:35:01
2	Mg 279.077 IEC†	116.1	115.4	5039.8 ug/L	5039.8 ppb	16:35:21
2	Na 589.592 Radial†	24748.6	25201.3	9896.9 ug/L	9896.9 ppb	16:35:01
2	Sr 421.552†	56872.0	56783.2	483.50 ug/L	483.50 ppb	16:35:01
2	Sc 361.383	838991.4	838991.4	99.897 %		16:36:24
2	Y 371.029	706721.3	706721.3	98.694 %		16:36:24

2	Ag 328.068†	100015.6	99865.3	506.54 ug/L	506.54 ppb	16:36:29
2	As 188.979†	887.7	909.4	491.81 ug/L	491.81 ppb	16:36:49
2	B 249.677†	17415.6	17683.7	483.82 ug/L	483.82 ppb	16:36:29
2	Ba 233.527†	52644.6	52680.3	495.09 ug/L	495.09 ppb	16:36:29
2	Be 313.107†	1203310.0	1208811.9	491.90 ug/L	491.90 ppb	16:36:24
2	Cd 226.502†	34867.1	35069.4	494.51 ug/L	494.51 ppb	16:36:29
2	Co 228.616†	19427.3	19486.2	507.24 ug/L	507.24 ppb	16:36:29
2	Cr 267.716†	38010.4	37954.6	495.17 ug/L	495.17 ppb	16:36:29
2	Cu 324.752†	158824.5	152635.3	494.91 ug/L	494.91 ppb	16:36:29
2	Mn 257.610†	372011.2	371941.9	488.30 ug/L	488.30 ppb	16:36:29
2	Mo 202.031†	5644.8	5636.4	495.98 ug/L	495.98 ppb	16:36:49
2	Ni 231.604†	16134.6	16057.6	501.09 ug/L	501.09 ppb	16:36:29
2	P 214.914†	3561.6	3397.0	2345.2 ug/L	2345.2 ppb	16:36:49
2	Pb 220.353†	3186.5	3248.6	491.17 ug/L	491.17 ppb	16:36:49
2	S 181.975 Axial†	577.2	553.4	969.16 ug/L	969.16 ppb	16:36:49
2	Sb 206.836†	1201.4	1176.0	517.45 ug/L	517.45 ppb	16:36:49
2	Se 196.026†	600.3	617.8	510.67 ug/L	510.67 ppb	16:36:49
2	Si 251.611†	67392.8	66936.7	2486.2 ug/L	2486.2 ppb	16:36:29
2	Sn 189.927†	2221.6	2220.8	492.45 ug/L	492.45 ppb	16:36:49
2	Ti 334.940†	285941.3	287319.1	494.19 ug/L	494.19 ppb	16:36:29
2	Tl 190.801†	1223.6	1249.9	486.54 ug/L	486.54 ppb	16:36:49
2	U 409.014†	15370.6	17421.6	510.94 ug/L	510.94 ppb	16:36:29
2	V 292.402†	62811.9	64304.1	502.36 ug/L	502.36 ppb	16:36:29
2	Zn 213.857†	42281.7	41718.8	491.00 ug/L	491.00 ppb	16:36:29
2	SiO2†	67025.4	66541.1	5302.8 ug/L	5302.8 ppb	16:37:31
3	Sc Radial	4008.5	4008.5	99.4 %		16:35:46
3	Y RADIAL	4420.3	4420.3	97.84 %		16:35:26
3	Al 396.153Radial†	4530.9	4639.2	4920.4 ug/L	4920.4 ppb	16:35:26
3	Ca 317.933Radial†	2463.0	2461.4	5001.0 ug/L	5001.0 ppb	16:35:46
3	Fe 238.204 Radial†	412.3	405.9	5091.0 ug/L	5091.0 ppb	16:35:46
3	K 766.490 Radial†	26934.9	24302.1	4845.1 ug/L	4845.1 ppb	16:35:26
3	Mg 279.077 IEC†	116.1	116.1	5073.1 ug/L	5073.1 ppb	16:35:46
3	Na 589.592 Radial†	24744.3	25361.7	9959.9 ug/L	9959.9 ppb	16:35:26
3	Sr 421.552†	56494.9	56782.2	483.49 ug/L	483.49 ppb	16:35:26
3	Sc 361.383	846528.6	846528.6	100.79 %		16:36:55
3	Y 371.029	712343.0	712343.0	99.479 %		16:36:55
3	Ag 328.068†	99596.3	98557.8	499.95 ug/L	499.95 ppb	16:37:00
3	As 188.979†	882.8	896.7	484.93 ug/L	484.93 ppb	16:37:20
3	B 249.677†	17368.4	17481.7	478.28 ug/L	478.28 ppb	16:37:00
3	Ba 233.527†	52479.0	52046.8	489.15 ug/L	489.15 ppb	16:37:00
3	Be 313.107†	1211952.6	1206661.4	491.02 ug/L	491.02 ppb	16:36:55
3	Cd 226.502†	34777.3	34669.5	488.86 ug/L	488.86 ppb	16:37:00
3	Co 228.616†	19307.7	19194.4	499.64 ug/L	499.64 ppb	16:37:00
3	Cr 267.716†	37887.7	37494.1	489.18 ug/L	489.18 ppb	16:37:00
3	Cu 324.752†	158442.8	150841.0	489.10 ug/L	489.10 ppb	16:37:00
3	Mn 257.610†	371275.6	367896.4	482.99 ug/L	482.99 ppb	16:37:00
3	Mo 202.031†	5653.1	5594.3	492.29 ug/L	492.29 ppb	16:37:20
3	Ni 231.604†	16120.2	15899.5	496.16 ug/L	496.16 ppb	16:37:00
3	P 214.914†	3583.1	3386.6	2338.9 ug/L	2338.9 ppb	16:37:20
3	Pb 220.353†	3201.5	3235.1	489.11 ug/L	489.11 ppb	16:37:20
3	S 181.975 Axial†	588.5	559.5	979.71 ug/L	979.71 ppb	16:37:20
3	Sb 206.836†	1217.0	1180.8	519.43 ug/L	519.43 ppb	16:37:20
3	Se 196.026†	597.6	609.8	504.43 ug/L	504.43 ppb	16:37:20
3	Si 251.611†	67219.9	66164.6	2457.5 ug/L	2457.5 ppb	16:37:00
3	Sn 189.927†	2248.4	2227.6	493.96 ug/L	493.96 ppb	16:37:20
3	Ti 334.940†	284939.3	283776.5	488.10 ug/L	488.10 ppb	16:37:00
3	Tl 190.801†	1230.5	1245.9	484.95 ug/L	484.95 ppb	16:37:20
3	U 409.014†	15157.7	17073.4	500.70 ug/L	500.70 ppb	16:37:00
3	V 292.402†	62637.3	63571.1	496.64 ug/L	496.64 ppb	16:37:00
3	Zn 213.857†	42215.1	41275.9	485.77 ug/L	485.77 ppb	16:37:00
3	SiO2†	67486.1	66400.8	5291.7 ug/L	5291.7 ppb	16:37:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841711.3	100.22 %	0.498			0.50%
Sc Radial	4023.8	99.8 %	0.34			0.34%
Y 371.029	708723.3	98.973 %	0.4386			0.44%
Y RADIAL	4413.7	97.69 %	1.913			1.96%
Ag 328.068†	99466.9	504.53 ug/L	3.976	504.53 ppb	3.976	0.79%

QC value within limits for Ag 328.068 Recovery = 100.91%							
Al	396.153Radial†	4680.0	4963.7 ug/L	72.09	4963.7 ppb	72.09	1.45%
QC value within limits for Al 396.153Radial Recovery = 99.27%							
As	188.979†	909.6	491.90 ug/L	7.023	491.90 ppb	7.023	1.43%
QC value within limits for As 188.979 Recovery = 98.38%							
B	249.677†	17608.0	481.74 ug/L	3.019	481.74 ppb	3.019	0.63%
QC value within limits for B 249.677 Recovery = 96.35%							
Ba	233.527†	52482.2	493.23 ug/L	3.545	493.23 ppb	3.545	0.72%
QC value within limits for Ba 233.527 Recovery = 98.65%							
Be	313.107†	1208233.9	491.66 ug/L	0.567	491.66 ppb	0.567	0.12%
QC value within limits for Be 313.107 Recovery = 98.33%							
Ca	317.933Radial†	2459.9	4997.9 ug/L	8.42	4997.9 ppb	8.42	0.17%
QC value within limits for Ca 317.933Radial Recovery = 99.96%							
Cd	226.502†	34987.2	493.35 ug/L	4.034	493.35 ppb	4.034	0.82%
QC value within limits for Cd 226.502 Recovery = 98.67%							
Co	228.616†	19375.6	504.36 ug/L	4.117	504.36 ppb	4.117	0.82%
QC value within limits for Co 228.616 Recovery = 100.87%							
Cr	267.716†	37773.7	492.81 ug/L	3.196	492.81 ppb	3.196	0.65%
QC value within limits for Cr 267.716 Recovery = 98.56%							
Cu	324.752†	151993.5	492.83 ug/L	3.238	492.83 ppb	3.238	0.66%
QC value within limits for Cu 324.752 Recovery = 98.57%							
Fe	238.204 Radial†	403.7	5062.6 ug/L	25.16	5062.6 ppb	25.16	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 101.25%							
K	766.490 Radial†	24392.4	4863.1 ug/L	41.94	4863.1 ppb	41.94	0.86%
QC value within limits for K 766.490 Radial Recovery = 97.26%							
Mg	279.077 IEC†	116.6	5093.2 ug/L	65.83	5093.2 ppb	65.83	1.29%
QC value within limits for Mg 279.077 IEC Recovery = 101.86%							
Mn	257.610†	370686.5	486.65 ug/L	3.172	486.65 ppb	3.172	0.65%
QC value within limits for Mn 257.610 Recovery = 97.33%							
Mo	202.031†	5622.6	494.77 ug/L	2.151	494.77 ppb	2.151	0.43%
QC value within limits for Mo 202.031 Recovery = 98.95%							
Na	589.592 Radial†	25491.8	10011 ug/L	146.5	10011 ppb	146.5	1.46%
QC value within limits for Na 589.592 Radial Recovery = 100.11%							
Ni	231.604†	16006.5	499.50 ug/L	2.890	499.50 ppb	2.890	0.58%
QC value within limits for Ni 231.604 Recovery = 99.90%							
P	214.914†	3400.6	2348.2 ug/L	11.10	2348.2 ppb	11.10	0.47%
QC value within limits for P 214.914 Recovery = 93.93%							
Pb	220.353†	3245.0	490.63 ug/L	1.334	490.63 ppb	1.334	0.27%
QC value within limits for Pb 220.353 Recovery = 98.13%							
S	181.975 Axial†	559.1	979.08 ug/L	9.619	979.08 ppb	9.619	0.98%
QC value within limits for S 181.975 Axial Recovery = 97.91%							
Sb	206.836†	1179.6	518.97 ug/L	1.342	518.97 ppb	1.342	0.26%
QC value within limits for Sb 206.836 Recovery = 103.79%							
Se	196.026†	618.1	510.99 ug/L	6.723	510.99 ppb	6.723	1.32%
QC value within limits for Se 196.026 Recovery = 102.20%							
Si	251.611†	66691.9	2477.1 ug/L	16.99	2477.1 ppb	16.99	0.69%
QC value within limits for Si 251.611 Recovery = 99.08%							
Sn	189.927†	2226.7	493.76 ug/L	1.223	493.76 ppb	1.223	0.25%
QC value within limits for Sn 189.927 Recovery = 98.75%							
Sr	421.552†	57316.0	488.04 ug/L	7.866	488.04 ppb	7.866	1.61%
QC value within limits for Sr 421.552 Recovery = 97.61%							
Ti	334.940†	286083.1	492.06 ug/L	3.434	492.06 ppb	3.434	0.70%
QC value within limits for Ti 334.940 Recovery = 98.41%							
Tl	190.801†	1250.2	486.66 ug/L	1.776	486.66 ppb	1.776	0.36%
QC value within limits for Tl 190.801 Recovery = 97.33%							
U	409.014†	17386.7	509.92 ug/L	8.748	509.92 ppb	8.748	1.72%
QC value within limits for U 409.014 Recovery = 101.98%							
V	292.402†	63995.6	499.96 ug/L	2.971	499.96 ppb	2.971	0.59%
QC value within limits for V 292.402 Recovery = 99.99%							
Zn	213.857†	41605.4	489.66 ug/L	3.426	489.66 ppb	3.426	0.70%
QC value within limits for Zn 213.857 Recovery = 97.93%							
SiO2†		66185.9	5274.5 ug/L	39.86	5274.5 ppb	39.86	0.76%
QC value within limits for SiO2 Recovery = 98.63%							
All analyte(s) passed QC.							

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/25/2010 16:39:46
 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	4048.7	4048.7	100 %		16:41:59
1	Y RADIAL	4446.2	4446.2	98.41 %		16:41:39
1	Al 396.153Radial†	-68.9	11.0	11.707 ug/L	11.707 ppb	16:41:59
1	Ca 317.933Radial†	30.2	12.9	26.158 ug/L	26.158 ppb	16:41:59
1	Fe 238.204 Radial†	11.6	2.6	32.184 ug/L	32.184 ppb	16:41:59
1	K 766.490 Radial†	2563.9	-248.8	-49.683 ug/L	-49.683 ppb	16:41:39
1	Mg 279.077 IEC†	0.8	0.1	6.1513 ug/L	6.1513 ppb	16:41:59
1	Na 589.592 Radial†	-406.8	55.6	21.826 ug/L	21.826 ppb	16:41:39
1	Sr 421.552†	59.1	-11.1	-0.0948 ug/L	-0.0948 ppb	16:41:39
1	Sc 361.383	820604.6	820604.6	97.708 %		16:42:56
1	Y 371.029	702828.4	702828.4	98.150 %		16:42:56
1	Ag 328.068†	215.9	-32.4	-0.1580 ug/L	-0.1580 ppb	16:42:56
1	As 188.979†	-25.5	-5.3	-2.8321 ug/L	-2.8321 ppb	16:43:16
1	B 249.677†	-291.0	-47.7	-1.3163 ug/L	-1.3163 ppb	16:43:16
1	Ba 233.527†	35.7	18.0	0.1702 ug/L	0.1702 ppb	16:43:16
1	Be 313.107†	-4312.5	-151.0	-0.0613 ug/L	-0.0613 ppb	16:42:56
1	Cd 226.502†	-164.5	-1.9	-0.0296 ug/L	-0.0296 ppb	16:43:16
1	Co 228.616†	-44.2	-6.3	-0.1656 ug/L	-0.1656 ppb	16:43:16
1	Cr 267.716†	97.4	4.7	0.0627 ug/L	0.0627 ppb	16:43:16
1	Cu 324.752†	6445.8	244.2	0.7909 ug/L	0.7909 ppb	16:42:56
1	Mn 257.610†	932.0	501.4	0.6608 ug/L	0.6608 ppb	16:43:16
1	Mo 202.031†	13.8	-0.1	-0.0048 ug/L	-0.0048 ppb	16:43:16
1	Ni 231.604†	103.1	11.9	0.3720 ug/L	0.3720 ppb	16:43:16
1	P 214.914†	182.5	18.6	13.171 ug/L	13.171 ppb	16:43:16
1	Pb 220.353†	-65.9	-8.7	-1.3109 ug/L	-1.3109 ppb	16:43:16
1	S 181.975 Axial†	30.6	7.0	12.207 ug/L	12.207 ppb	16:43:16
1	Sb 206.836†	28.7	2.7	1.1609 ug/L	1.1609 ppb	16:43:16
1	Se 196.026†	-21.9	-5.5	-4.2466 ug/L	-4.2466 ppb	16:43:16
1	Si 251.611†	575.6	63.7	2.3707 ug/L	2.3707 ppb	16:43:16
1	Sn 189.927†	5.8	2.9	0.6417 ug/L	0.6417 ppb	16:43:16
1	Ti 334.940†	-1050.9	7.8	0.0142 ug/L	0.0142 ppb	16:42:56
1	Tl 190.801†	-26.3	-1.8	-0.6967 ug/L	-0.6967 ppb	16:43:16
1	U 409.014†	-1823.5	168.9	4.9661 ug/L	4.9661 ppb	16:42:56
1	V 292.402†	-1394.6	0.2	0.0065 ug/L	0.0065 ppb	16:42:56
1	Zn 213.857†	753.3	164.5	1.9462 ug/L	1.9462 ppb	16:43:16
1	SiO2†	594.5	55.1	4.4020 ug/L	4.4020 ppb	16:44:27
2	Sc Radial	4050.8	4050.8	100 %		16:42:24
2	Y RADIAL	4500.9	4500.9	99.62 %		16:42:04
2	Al 396.153Radial†	-69.5	10.5	11.162 ug/L	11.162 ppb	16:42:24
2	Ca 317.933Radial†	26.5	9.2	18.711 ug/L	18.711 ppb	16:42:24
2	Fe 238.204 Radial†	8.9	-0.1	-1.7483 ug/L	-1.7483 ppb	16:42:24
2	K 766.490 Radial†	2663.9	-150.5	-30.070 ug/L	-30.070 ppb	16:42:04
2	Mg 279.077 IEC†	2.4	1.7	73.595 ug/L	73.595 ppb	16:42:24
2	Na 589.592 Radial†	-391.5	71.0	27.877 ug/L	27.877 ppb	16:42:04
2	Sr 421.552†	35.4	-34.8	-0.2962 ug/L	-0.2962 ppb	16:42:04
2	Sc 361.383	821641.3	821641.3	97.831 %		16:43:21
2	Y 371.029	705970.9	705970.9	98.589 %		16:43:21
2	Ag 328.068†	281.2	34.0	0.1672 ug/L	0.1672 ppb	16:43:21
2	As 188.979†	-19.3	1.1	0.5990 ug/L	0.5990 ppb	16:43:41
2	B 249.677†	-305.5	-62.1	-1.7059 ug/L	-1.7059 ppb	16:43:41
2	Ba 233.527†	45.9	28.4	0.2659 ug/L	0.2659 ppb	16:43:41
2	Be 313.107†	-4408.7	-243.7	-0.0986 ug/L	-0.0986 ppb	16:43:21
2	Cd 226.502†	-166.4	-3.6	-0.0509 ug/L	-0.0509 ppb	16:43:41
2	Co 228.616†	-40.6	-2.6	-0.0678 ug/L	-0.0678 ppb	16:43:41
2	Cr 267.716†	100.6	7.9	0.1012 ug/L	0.1012 ppb	16:43:41
2	Cu 324.752†	6523.3	315.1	1.0199 ug/L	1.0199 ppb	16:43:21
2	Mn 257.610†	795.1	360.3	0.4695 ug/L	0.4695 ppb	16:43:41
2	Mo 202.031†	11.4	-2.6	-0.2264 ug/L	-0.2264 ppb	16:43:41
2	Ni 231.604†	81.5	-10.3	-0.3224 ug/L	-0.3224 ppb	16:43:41

2	P 214.914†	195.9	32.1	22.848 ug/L	22.848 ppb	16:43:41
2	Pb 220.353†	-55.6	2.0	0.3082 ug/L	0.3082 ppb	16:43:41
2	S 181.975 Axial†	34.2	10.6	18.494 ug/L	18.494 ppb	16:43:41
2	Sb 206.836†	35.5	9.7	4.1229 ug/L	4.1229 ppb	16:43:41
2	Se 196.026†	-24.0	-7.6	-6.0590 ug/L	-6.0590 ppb	16:43:41
2	Si 251.611†	580.5	68.0	2.5333 ug/L	2.5333 ppb	16:43:41
2	Sn 189.927†	7.0	4.1	0.9110 ug/L	0.9110 ppb	16:43:41
2	Ti 334.940†	-974.3	87.5	0.1456 ug/L	0.1456 ppb	16:43:21
2	Tl 190.801†	-28.2	-3.8	-1.4554 ug/L	-1.4554 ppb	16:43:41
2	U 409.014†	-1882.9	110.5	3.2523 ug/L	3.2523 ppb	16:43:21
2	V 292.402†	-1427.1	-31.2	-0.2357 ug/L	-0.2357 ppb	16:43:21
2	Zn 213.857†	738.4	148.4	1.7634 ug/L	1.7634 ppb	16:43:41
2	SiO2†	609.4	69.5	5.5606 ug/L	5.5606 ppb	16:44:47
3	Sc Radial	4029.5	4029.5	99.9 %		16:42:49
3	Y RADIAL	4454.8	4454.8	98.60 %		16:42:29
3	Al 396.153Radial†	-60.8	18.8	19.976 ug/L	19.976 ppb	16:42:49
3	Ca 317.933Radial†	38.4	21.3	43.281 ug/L	43.281 ppb	16:42:49
3	Fe 238.204 Radial†	13.6	4.6	57.391 ug/L	57.391 ppb	16:42:49
3	K 766.490 Radial†	2705.7	-94.6	-18.921 ug/L	-18.921 ppb	16:42:29
3	Mg 279.077 IEC†	0.9	0.2	7.8408 ug/L	7.8408 ppb	16:42:49
3	Na 589.592 Radial†	-362.9	97.6	38.320 ug/L	38.320 ppb	16:42:29
3	Sr 421.552†	81.6	11.7	0.0991 ug/L	0.0991 ppb	16:42:29
3	Sc 361.383	825226.5	825226.5	98.258 %		16:43:46
3	Y 371.029	710011.7	710011.7	99.153 %		16:43:46
3	Ag 328.068†	195.0	-55.0	-0.2596 ug/L	-0.2596 ppb	16:43:46
3	As 188.979†	-21.6	-1.2	-0.6057 ug/L	-0.6057 ppb	16:44:07
3	B 249.677†	-333.5	-89.3	-2.4632 ug/L	-2.4632 ppb	16:44:07
3	Ba 233.527†	36.6	18.8	0.1777 ug/L	0.1777 ppb	16:44:07
3	Be 313.107†	-4304.3	-117.9	-0.0479 ug/L	-0.0479 ppb	16:43:46
3	Cd 226.502†	-171.0	-7.7	-0.1140 ug/L	-0.1140 ppb	16:44:07
3	Co 228.616†	-35.0	3.3	0.0855 ug/L	0.0855 ppb	16:44:07
3	Cr 267.716†	93.7	0.4	0.0113 ug/L	0.0113 ppb	16:44:07
3	Cu 324.752†	6566.9	330.6	1.0750 ug/L	1.0750 ppb	16:43:46
3	Mn 257.610†	923.3	487.3	0.6447 ug/L	0.6447 ppb	16:44:07
3	Mo 202.031†	16.3	2.4	0.2199 ug/L	0.2199 ppb	16:44:07
3	Ni 231.604†	84.0	-8.1	-0.2535 ug/L	-0.2535 ppb	16:44:07
3	P 214.914†	186.1	21.2	14.968 ug/L	14.968 ppb	16:44:07
3	Pb 220.353†	-53.2	4.7	0.7018 ug/L	0.7018 ppb	16:44:07
3	S 181.975 Axial†	25.0	1.1	1.8790 ug/L	1.8790 ppb	16:44:07
3	Sb 206.836†	27.2	1.0	0.4687 ug/L	0.4687 ppb	16:44:07
3	Se 196.026†	-23.2	-6.6	-5.1192 ug/L	-5.1192 ppb	16:44:07
3	Si 251.611†	579.8	64.6	2.4025 ug/L	2.4025 ppb	16:44:07
3	Sn 189.927†	9.0	6.1	1.3453 ug/L	1.3453 ppb	16:44:07
3	Ti 334.940†	-1069.4	-5.0	-0.0034 ug/L	-0.0034 ppb	16:43:46
3	Tl 190.801†	-27.0	-2.4	-0.9308 ug/L	-0.9308 ppb	16:44:07
3	U 409.014†	-2005.5	-5.9	-0.1805 ug/L	-0.1805 ppb	16:43:46
3	V 292.402†	-1394.4	8.4	0.0590 ug/L	0.0590 ppb	16:43:46
3	Zn 213.857†	756.4	163.3	1.9320 ug/L	1.9320 ppb	16:44:07
3	SiO2†	604.2	61.5	4.9112 ug/L	4.9112 ppb	16:45:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	822490.8	97.932 %	0.2888			0.29%
Sc Radial	4043.0	100 %	0.3			0.29%
Y 371.029	706270.3	98.631 %	0.5029			0.51%
Y RADIAL	4467.3	98.88 %	0.651			0.66%
Ag 328.068†	-17.8	-0.0835 ug/L	0.22295	-0.0835 ppb	0.22295	267.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.4	14.282 ug/L	4.9388	14.282 ppb	4.9388	34.58%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.8	-0.9463 ug/L	1.74070	-0.9463 ppb	1.74070	183.95%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-66.4	-1.8285 ug/L	0.58316	-1.8285 ppb	0.58316	31.89%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.7	0.2046 ug/L	0.05323	0.2046 ppb	0.05323	26.01%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-170.9	-0.0693 ug/L	0.02629	-0.0693 ppb	0.02629	37.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	14.5	29.383 ug/L	12.5986	29.383 ppb	12.5986	42.88%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	-4.4	-0.0648 ug/L	0.04392	-0.0648 ppb	0.04392	67.75%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	-1.9	-0.0493 ug/L	0.12656	-0.0493 ppb	0.12656	256.57%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	4.3	0.0584 ug/L	0.04508	0.0584 ppb	0.04508	77.19%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	296.6	0.9619 ug/L	0.15064	0.9619 ppb	0.15064	15.66%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	2.3	29.276 ug/L	29.6769	29.276 ppb	29.6769	101.37%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-164.7	-32.891 ug/L	15.5738	-32.891 ppb	15.5738	47.35%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	0.7	29.196 ug/L	38.4603	29.196 ppb	38.4603	131.73%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	449.6	0.5917 ug/L	0.10609	0.5917 ppb	0.10609	17.93%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-0.1	-0.0038 ug/L	0.22316	-0.0038 ppb	0.22316	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	74.7	29.341 ug/L	8.3443	29.341 ppb	8.3443	28.44%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-2.2	-0.0680 ug/L	0.38258	-0.0680 ppb	0.38258	562.96%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	23.9	16.996 ug/L	5.1474	16.996 ppb	5.1474	30.29%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-0.7	-0.1003 ug/L	1.06670	-0.1003 ppb	1.06670	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	6.2	10.860 ug/L	8.3890	10.860 ppb	8.3890	77.25%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	4.5	1.9175 ug/L	1.94104	1.9175 ppb	1.94104	101.23%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-6.6	-5.1416 ug/L	0.90639	-5.1416 ppb	0.90639	17.63%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	65.4	2.4355 ug/L	0.08616	2.4355 ppb	0.08616	3.54%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	4.3	0.9660 ug/L	0.35500	0.9660 ppb	0.35500	36.75%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-11.4	-0.0973 ug/L	0.19769	-0.0973 ppb	0.19769	203.17%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	30.1	0.0521 ug/L	0.08142	0.0521 ppb	0.08142	156.31%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-2.7	-1.0276 ug/L	0.38851	-1.0276 ppb	0.38851	37.81%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	91.2	2.6793 ug/L	2.62072	2.6793 ppb	2.62072	97.81%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-7.5	-0.0567 ug/L	0.15720	-0.0567 ppb	0.15720	277.26%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	158.7	1.8805 ug/L	0.10169	1.8805 ppb	0.10169	5.41%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		62.1	4.9580 ug/L	0.58072	4.9580 ppb	0.58072	11.71%
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/25/2010 17:36:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4033.0	4033.0	100.0 %		17:38:15
1	Y RADIAL	4441.3	4441.3	98.30 %		17:37:55
1	Al 396.153Radial†	4555.2	4635.8	4916.6 ug/L	4916.6 ppb	17:37:55
1	Ca 317.933Radial†	2429.8	2413.1	4902.8 ug/L	4902.8 ppb	17:38:15
1	Fe 238.204 Radial†	406.4	397.5	4986.0 ug/L	4986.0 ppb	17:38:15
1	K 766.490 Radial†	26937.7	24139.9	4812.9 ug/L	4812.9 ppb	17:37:55
1	Mg 279.077 IEC†	115.1	114.4	4997.5 ug/L	4997.5 ppb	17:38:15
1	Na 589.592 Radial†	23985.5	24451.3	9602.4 ug/L	9602.4 ppb	17:37:55
1	Sr 421.552†	56029.2	55970.4	476.58 ug/L	476.58 ppb	17:37:55
1	Sc 361.383	840981.1	840981.1	100.13 %		17:39:12
1	Y 371.029	707499.5	707499.5	98.802 %		17:39:12
1	Ag 328.068†	100055.1	99667.8	505.52 ug/L	505.52 ppb	17:39:17
1	As 188.979†	884.0	903.6	488.68 ug/L	488.68 ppb	17:39:37
1	B 249.677†	17513.2	17739.9	485.37 ug/L	485.37 ppb	17:39:17
1	Ba 233.527†	52852.3	52763.0	495.87 ug/L	495.87 ppb	17:39:17
1	Be 313.107†	1226799.3	1229419.9	500.27 ug/L	500.27 ppb	17:39:12
1	Cd 226.502†	35069.2	35188.7	496.20 ug/L	496.20 ppb	17:39:17
1	Co 228.616†	19464.0	19476.9	506.99 ug/L	506.99 ppb	17:39:17
1	Cr 267.716†	37940.8	37795.0	493.08 ug/L	493.08 ppb	17:39:17
1	Cu 324.752†	158815.2	152249.9	493.65 ug/L	493.65 ppb	17:39:17
1	Mn 257.610†	373829.1	372876.3	489.52 ug/L	489.52 ppb	17:39:17
1	Mo 202.031†	5650.0	5628.3	495.26 ug/L	495.26 ppb	17:39:37
1	Ni 231.604†	16234.4	16119.0	503.01 ug/L	503.01 ppb	17:39:17
1	P 214.914†	3567.1	3394.1	2343.4 ug/L	2343.4 ppb	17:39:37
1	Pb 220.353†	3171.6	3226.1	487.78 ug/L	487.78 ppb	17:39:37
1	S 181.975 Axial†	590.2	565.1	989.54 ug/L	989.54 ppb	17:39:37
1	Sb 206.836†	1205.9	1177.6	518.13 ug/L	518.13 ppb	17:39:37
1	Se 196.026†	606.6	622.8	514.44 ug/L	514.44 ppb	17:39:37
1	Si 251.611†	68225.6	67608.8	2511.2 ug/L	2511.2 ppb	17:39:17
1	Sn 189.927†	2232.4	2226.4	493.68 ug/L	493.68 ppb	17:39:37
1	Ti 334.940†	286829.3	287528.7	494.54 ug/L	494.54 ppb	17:39:17
1	Tl 190.801†	1235.2	1258.7	489.94 ug/L	489.94 ppb	17:39:37
1	U 409.014†	15631.8	17646.0	517.56 ug/L	517.56 ppb	17:39:17
1	V 292.402†	62776.9	64120.4	500.95 ug/L	500.95 ppb	17:39:17
1	Zn 213.857†	42402.4	41739.2	491.24 ug/L	491.24 ppb	17:39:17
1	SiO2†	67200.5	66557.2	5304.1 ug/L	5304.1 ppb	17:40:44
2	Sc Radial	4067.7	4067.7	101 %		17:38:40
2	Y RADIAL	4575.8	4575.8	101.3 %		17:38:20
2	Al 396.153Radial†	4636.8	4677.9	4961.5 ug/L	4961.5 ppb	17:38:20
2	Ca 317.933Radial†	2479.9	2442.1	4961.7 ug/L	4961.7 ppb	17:38:40
2	Fe 238.204 Radial†	412.6	400.1	5018.4 ug/L	5018.4 ppb	17:38:40
2	K 766.490 Radial†	27540.7	24508.0	4886.4 ug/L	4886.4 ppb	17:38:20
2	Mg 279.077 IEC†	115.8	114.2	4987.6 ug/L	4987.6 ppb	17:38:40
2	Na 589.592 Radial†	24388.9	24646.6	9679.1 ug/L	9679.1 ppb	17:38:20
2	Sr 421.552†	56981.5	56436.8	480.55 ug/L	480.55 ppb	17:38:20
2	Sc 361.383	845346.1	845346.1	100.65 %		17:39:43
2	Y 371.029	712188.1	712188.1	99.457 %		17:39:43
2	Ag 328.068†	99514.6	98614.8	500.20 ug/L	500.20 ppb	17:39:48
2	As 188.979†	888.8	903.9	488.79 ug/L	488.79 ppb	17:40:08
2	B 249.677†	17446.8	17583.6	481.09 ug/L	481.09 ppb	17:39:48
2	Ba 233.527†	52461.7	52102.4	489.66 ug/L	489.66 ppb	17:39:48
2	Be 313.107†	1210088.6	1206491.5	490.95 ug/L	490.95 ppb	17:39:43
2	Cd 226.502†	34836.1	34776.2	490.37 ug/L	490.37 ppb	17:39:48
2	Co 228.616†	19328.8	19242.2	500.90 ug/L	500.90 ppb	17:39:48
2	Cr 267.716†	37792.4	37451.9	488.61 ug/L	488.61 ppb	17:39:48
2	Cu 324.752†	157810.2	150432.5	487.77 ug/L	487.77 ppb	17:39:48
2	Mn 257.610†	371016.9	368154.6	483.33 ug/L	483.33 ppb	17:39:48
2	Mo 202.031†	5671.6	5620.6	494.59 ug/L	494.59 ppb	17:40:08
2	Ni 231.604†	16143.8	15945.4	497.59 ug/L	497.59 ppb	17:39:48

2	P 214.914†	3586.4	3394.8	2345.1 ug/L	2345.1 ppb	17:40:08
2	Pb 220.353†	3187.2	3225.3	487.67 ug/L	487.67 ppb	17:40:08
2	S 181.975 Axial†	594.8	566.5	992.06 ug/L	992.06 ppb	17:40:08
2	Sb 206.836†	1218.1	1183.6	520.67 ug/L	520.67 ppb	17:40:08
2	Se 196.026†	595.1	608.1	502.89 ug/L	502.89 ppb	17:40:08
2	Si 251.611†	67389.9	66426.8	2467.2 ug/L	2467.2 ppb	17:39:48
2	Sn 189.927†	2246.2	2228.6	494.18 ug/L	494.18 ppb	17:40:08
2	Ti 334.940†	284304.2	283540.9	487.69 ug/L	487.69 ppb	17:39:48
2	Tl 190.801†	1228.5	1245.6	484.86 ug/L	484.86 ppb	17:40:08
2	U 409.014†	15402.1	17337.2	508.48 ug/L	508.48 ppb	17:39:48
2	V 292.402†	62258.4	63281.6	494.46 ug/L	494.46 ppb	17:39:48
2	Zn 213.857†	42238.1	41357.3	486.74 ug/L	486.74 ppb	17:39:48
2	SiO2†	67324.2	66333.5	5286.3 ug/L	5286.3 ppb	17:40:49
3	Sc Radial	3787.1	3787.1	93.9 %		17:39:05
3	Y RADIAL	4487.4	4487.4	99.32 %		17:38:45
3	Al 396.153Radial†	4575.5	4953.2	5254.7 ug/L	5254.7 ppb	17:38:45
3	Ca 317.933Radial†	2498.4	2643.9	5371.7 ug/L	5371.7 ppb	17:39:05
3	Fe 238.204 Radial†	414.9	432.9	5428.6 ug/L	5428.6 ppb	17:39:05
3	K 766.490 Radial†	27165.0	26131.2	5210.0 ug/L	5210.0 ppb	17:38:45
3	Mg 279.077 IEC†	116.7	123.6	5399.1 ug/L	5399.1 ppb	17:39:05
3	Na 589.592 Radial†	24107.2	26138.3	10265 ug/L	10265 ppb	17:38:45
3	Sr 421.552†	56377.5	59979.7	510.72 ug/L	510.72 ppb	17:38:45
3	Sc 361.383	840090.3	840090.3	100.03 %		17:40:14
3	Y 371.029	707454.1	707454.1	98.796 %		17:40:14
3	Ag 328.068†	100053.4	99772.0	506.18 ug/L	506.18 ppb	17:40:19
3	As 188.979†	894.0	914.5	494.62 ug/L	494.62 ppb	17:40:39
3	B 249.677†	17502.6	17747.9	485.52 ug/L	485.52 ppb	17:40:19
3	Ba 233.527†	52708.0	52674.7	495.05 ug/L	495.05 ppb	17:40:19
3	Be 313.107†	1204992.4	1208918.1	491.94 ug/L	491.94 ppb	17:40:14
3	Cd 226.502†	35071.7	35228.3	496.71 ug/L	496.71 ppb	17:40:19
3	Co 228.616†	19468.7	19502.2	507.66 ug/L	507.66 ppb	17:40:19
3	Cr 267.716†	37935.9	37830.3	493.59 ug/L	493.59 ppb	17:40:19
3	Cu 324.752†	158620.9	152223.7	493.60 ug/L	493.60 ppb	17:40:19
3	Mn 257.610†	372941.5	372384.8	488.90 ug/L	488.90 ppb	17:40:19
3	Mo 202.031†	5687.7	5671.9	499.14 ug/L	499.14 ppb	17:40:39
3	Ni 231.604†	16164.6	16066.5	501.37 ug/L	501.37 ppb	17:40:19
3	P 214.914†	3606.2	3436.9	2374.0 ug/L	2374.0 ppb	17:40:39
3	Pb 220.353†	3207.1	3265.0	493.67 ug/L	493.67 ppb	17:40:39
3	S 181.975 Axial†	597.2	572.6	1002.7 ug/L	1002.7 ppb	17:40:39
3	Sb 206.836†	1226.3	1199.3	527.46 ug/L	527.46 ppb	17:40:39
3	Se 196.026†	599.6	616.4	510.80 ug/L	510.80 ppb	17:40:39
3	Si 251.611†	67678.9	67134.5	2493.5 ug/L	2493.5 ppb	17:40:19
3	Sn 189.927†	2242.7	2239.0	496.53 ug/L	496.53 ppb	17:40:39
3	Ti 334.940†	285416.7	286420.2	492.67 ug/L	492.67 ppb	17:40:19
3	Tl 190.801†	1241.4	1266.1	492.79 ug/L	492.79 ppb	17:40:39
3	U 409.014†	15236.7	17267.6	506.37 ug/L	506.37 ppb	17:40:19
3	V 292.402†	62576.9	63987.0	499.90 ug/L	499.90 ppb	17:40:19
3	Zn 213.857†	42389.9	41771.6	491.57 ug/L	491.57 ppb	17:40:19
3	SiO2†	67507.1	66934.8	5334.2 ug/L	5334.2 ppb	17:40:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842139.2	100.27 %	0.335			0.33%
Sc Radial	3962.6	98.2 %	3.79			3.86%
Y 371.029	709047.3	99.019 %	0.3799			0.38%
Y RADIAL	4501.5	99.63 %	1.512			1.52%
Ag 328.068†	99351.5	503.97 ug/L	3.278	503.97 ppb	3.278	0.65%
QC value within limits for Ag 328.068 Recovery = 100.79%						
Al 396.153Radial†	4755.6	5044.3 ug/L	183.64	5044.3 ppb	183.64	3.64%
QC value within limits for Al 396.153Radial Recovery = 100.89%						
As 188.979†	907.4	490.70 ug/L	3.399	490.70 ppb	3.399	0.69%
QC value within limits for As 188.979 Recovery = 98.14%						
B 249.677†	17690.5	483.99 ug/L	2.516	483.99 ppb	2.516	0.52%
QC value within limits for B 249.677 Recovery = 96.80%						
Ba 233.527†	52513.4	493.53 ug/L	3.372	493.53 ppb	3.372	0.68%
QC value within limits for Ba 233.527 Recovery = 98.71%						
Be 313.107†	1214943.2	494.39 ug/L	5.120	494.39 ppb	5.120	1.04%
QC value within limits for Be 313.107 Recovery = 98.88%						
Ca 317.933Radial†	2499.7	5078.7 ug/L	255.47	5078.7 ppb	255.47	5.03%

QC value within limits for Ca 317.933 Radial Recovery = 101.57%

Cd 226.502†	35064.4	494.43 ug/L	3.520	494.43 ppb	3.520	0.71%
QC value within limits for Cd 226.502 Recovery = 98.89%						
Co 228.616†	19407.1	505.18 ug/L	3.727	505.18 ppb	3.727	0.74%
QC value within limits for Co 228.616 Recovery = 101.04%						
Cr 267.716†	37692.4	491.76 ug/L	2.739	491.76 ppb	2.739	0.56%
QC value within limits for Cr 267.716 Recovery = 98.35%						
Cu 324.752†	151635.4	491.67 ug/L	3.383	491.67 ppb	3.383	0.69%
QC value within limits for Cu 324.752 Recovery = 98.33%						
Fe 238.204 Radial†	410.2	5144.3 ug/L	246.73	5144.3 ppb	246.73	4.80%
QC value within limits for Fe 238.204 Radial Recovery = 102.89%						
K 766.490 Radial†	24926.4	4969.8 ug/L	211.28	4969.8 ppb	211.28	4.25%
QC value within limits for K 766.490 Radial Recovery = 99.40%						
Mg 279.077 IEC†	117.4	5128.1 ug/L	234.76	5128.1 ppb	234.76	4.58%
QC value within limits for Mg 279.077 IEC Recovery = 102.56%						
Mn 257.610†	371138.6	487.25 ug/L	3.410	487.25 ppb	3.410	0.70%
QC value within limits for Mn 257.610 Recovery = 97.45%						
Mo 202.031†	5640.3	496.33 ug/L	2.454	496.33 ppb	2.454	0.49%
QC value within limits for Mo 202.031 Recovery = 99.27%						
Na 589.592 Radial†	25078.7	9848.8 ug/L	362.40	9848.8 ppb	362.40	3.68%
QC value within limits for Na 589.592 Radial Recovery = 98.49%						
Ni 231.604†	16043.6	500.66 ug/L	2.779	500.66 ppb	2.779	0.56%
QC value within limits for Ni 231.604 Recovery = 100.13%						
P 214.914†	3408.6	2354.1 ug/L	17.18	2354.1 ppb	17.18	0.73%
QC value within limits for P 214.914 Recovery = 94.17%						
Pb 220.353†	3238.8	489.71 ug/L	3.436	489.71 ppb	3.436	0.70%
QC value within limits for Pb 220.353 Recovery = 97.94%						
S 181.975 Axial†	568.1	994.77 ug/L	6.992	994.77 ppb	6.992	0.70%
QC value within limits for S 181.975 Axial Recovery = 99.48%						
Sb 206.836†	1186.8	522.08 ug/L	4.822	522.08 ppb	4.822	0.92%
QC value within limits for Sb 206.836 Recovery = 104.42%						
Se 196.026†	615.8	509.38 ug/L	5.906	509.38 ppb	5.906	1.16%
QC value within limits for Se 196.026 Recovery = 101.88%						
Si 251.611†	67056.7	2490.6 ug/L	22.14	2490.6 ppb	22.14	0.89%
QC value within limits for Si 251.611 Recovery = 99.63%						
Sn 189.927†	2231.3	494.80 ug/L	1.519	494.80 ppb	1.519	0.31%
QC value within limits for Sn 189.927 Recovery = 98.96%						
Sr 421.552†	57462.3	489.29 ug/L	18.669	489.29 ppb	18.669	3.82%
QC value within limits for Sr 421.552 Recovery = 97.86%						
Ti 334.940†	285829.9	491.63 ug/L	3.538	491.63 ppb	3.538	0.72%
QC value within limits for Ti 334.940 Recovery = 98.33%						
Tl 190.801†	1256.8	489.20 ug/L	4.019	489.20 ppb	4.019	0.82%
QC value within limits for Tl 190.801 Recovery = 97.84%						
U 409.014†	17416.9	510.80 ug/L	5.945	510.80 ppb	5.945	1.16%
QC value within limits for U 409.014 Recovery = 102.16%						
V 292.402†	63796.3	498.44 ug/L	3.483	498.44 ppb	3.483	0.70%
QC value within limits for V 292.402 Recovery = 99.69%						
Zn 213.857†	41622.7	489.85 ug/L	2.698	489.85 ppb	2.698	0.55%
QC value within limits for Zn 213.857 Recovery = 97.97%						
SiO2†	66608.5	5308.2 ug/L	24.22	5308.2 ppb	24.22	0.46%
QC value within limits for SiO2 Recovery = 99.26%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/25/2010 17:43:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4154.6	4154.6	103 %		17:45:16
1	Y RADIAL	3846.2	3846.2	85.13 %		17:44:56
1	Al 396.153Radial†	-69.9	11.8	12.554 ug/L	12.554 ppb	17:45:16
1	Ca 317.933Radial†	29.1	11.1	22.580 ug/L	22.580 ppb	17:45:16
1	Fe 238.204 Radial†	16.6	7.1	88.484 ug/L	88.484 ppb	17:45:16
1	K 766.490 Radial†	2558.2	-319.4	-63.778 ug/L	-63.778 ppb	17:44:56
1	Mg 279.077 IEC†	3.6	2.8	120.35 ug/L	120.35 ppb	17:45:16
1	Na 589.592 Radial†	-447.0	26.9	10.562 ug/L	10.562 ppb	17:44:56
1	Sr 421.552†	65.4	-6.6	-0.0562 ug/L	-0.0562 ppb	17:44:56
1	Sc 361.383	828696.3	828696.3	98.671 %		17:46:13
1	Y 371.029	706635.0	706635.0	98.682 %		17:46:13
1	Ag 328.068†	139.3	-112.2	-0.5386 ug/L	-0.5386 ppb	17:46:13
1	As 188.979†	-28.5	-8.0	-4.2848 ug/L	-4.2848 ppb	17:46:33
1	B 249.677†	-189.6	58.0	1.5794 ug/L	1.5794 ppb	17:46:33
1	Ba 233.527†	34.0	15.9	0.1537 ug/L	0.1537 ppb	17:46:33
1	Be 313.107†	-4380.6	-176.9	-0.0715 ug/L	-0.0715 ppb	17:46:13
1	Cd 226.502†	-151.2	13.2	0.1769 ug/L	0.1769 ppb	17:46:33
1	Co 228.616†	-35.0	3.5	0.0897 ug/L	0.0897 ppb	17:46:33
1	Cr 267.716†	109.3	15.8	0.2141 ug/L	0.2141 ppb	17:46:33
1	Cu 324.752†	6494.6	229.3	0.7461 ug/L	0.7461 ppb	17:46:13
1	Mn 257.610†	1159.9	723.1	0.9526 ug/L	0.9526 ppb	17:46:33
1	Mo 202.031†	17.7	3.7	0.3359 ug/L	0.3359 ppb	17:46:33
1	Ni 231.604†	79.8	-12.7	-0.3973 ug/L	-0.3973 ppb	17:46:33
1	P 214.914†	177.4	11.6	8.1196 ug/L	8.1196 ppb	17:46:33
1	Pb 220.353†	-47.8	10.4	1.5538 ug/L	1.5538 ppb	17:46:33
1	S 181.975 Axial†	34.2	10.3	17.995 ug/L	17.995 ppb	17:46:33
1	Sb 206.836†	32.1	5.9	2.5141 ug/L	2.5141 ppb	17:46:33
1	Se 196.026†	-22.1	-5.5	-4.1039 ug/L	-4.1039 ppb	17:46:33
1	Si 251.611†	653.2	136.6	5.0812 ug/L	5.0812 ppb	17:46:33
1	Sn 189.927†	-0.6	-3.7	-0.8219 ug/L	-0.8219 ppb	17:46:33
1	Ti 334.940†	-1004.3	65.5	0.1043 ug/L	0.1043 ppb	17:46:13
1	Tl 190.801†	-26.9	-2.2	-0.8303 ug/L	-0.8303 ppb	17:46:33
1	U 409.014†	-1889.2	120.6	3.5366 ug/L	3.5366 ppb	17:46:13
1	V 292.402†	-1317.2	92.6	0.7144 ug/L	0.7144 ppb	17:46:13
1	Zn 213.857†	700.9	103.9	1.2230 ug/L	1.2230 ppb	17:46:33
1	SiO2†	628.6	83.7	6.6796 ug/L	6.6796 ppb	17:47:29
2	Sc Radial	4059.2	4059.2	101 %		17:45:41
2	Y RADIAL	4462.0	4462.0	98.76 %		17:45:21
2	Al 396.153Radial†	-75.0	5.1	5.4775 ug/L	5.4775 ppb	17:45:41
2	Ca 317.933Radial†	22.0	4.7	9.5820 ug/L	9.5820 ppb	17:45:41
2	Fe 238.204 Radial†	11.8	2.7	34.167 ug/L	34.167 ppb	17:45:41
2	K 766.490 Radial†	2542.1	-277.0	-55.311 ug/L	-55.311 ppb	17:45:21
2	Mg 279.077 IEC†	4.2	3.5	152.14 ug/L	152.14 ppb	17:45:41
2	Na 589.592 Radial†	-434.1	29.5	11.576 ug/L	11.576 ppb	17:45:21
2	Sr 421.552†	58.1	-12.3	-0.1052 ug/L	-0.1052 ppb	17:45:21
2	Sc 361.383	834294.9	834294.9	99.338 %		17:46:38
2	Y 371.029	712534.1	712534.1	99.506 %		17:46:38
2	Ag 328.068†	183.4	-68.8	-0.3343 ug/L	-0.3343 ppb	17:46:38
2	As 188.979†	-24.2	-3.5	-1.8866 ug/L	-1.8866 ppb	17:46:58
2	B 249.677†	-230.6	18.0	0.4903 ug/L	0.4903 ppb	17:46:58
2	Ba 233.527†	15.0	-3.4	-0.0298 ug/L	-0.0298 ppb	17:46:58
2	Be 313.107†	-4253.4	-19.0	-0.0074 ug/L	-0.0074 ppb	17:46:38
2	Cd 226.502†	-162.1	3.2	0.0410 ug/L	0.0410 ppb	17:46:58
2	Co 228.616†	-42.0	-3.4	-0.0886 ug/L	-0.0886 ppb	17:46:58
2	Cr 267.716†	111.2	17.0	0.2252 ug/L	0.2252 ppb	17:46:58
2	Cu 324.752†	6451.9	142.1	0.4631 ug/L	0.4631 ppb	17:46:38
2	Mn 257.610†	995.1	549.3	0.7178 ug/L	0.7178 ppb	17:46:58
2	Mo 202.031†	15.9	1.9	0.1662 ug/L	0.1662 ppb	17:46:58
2	Ni 231.604†	83.0	-10.1	-0.3149 ug/L	-0.3149 ppb	17:46:58

2	P 214.914†	183.9	16.9	12.073 ug/L	12.073 ppb	17:46:58
2	Pb 220.353†	-47.4	11.1	1.6640 ug/L	1.6640 ppb	17:46:58
2	S 181.975 Axial†	29.2	5.0	8.8097 ug/L	8.8097 ppb	17:46:58
2	Sb 206.836†	30.0	3.6	1.5637 ug/L	1.5637 ppb	17:46:58
2	Se 196.026†	-17.3	-0.4	-0.2294 ug/L	-0.2294 ppb	17:46:58
2	Si 251.611†	650.5	129.4	4.8155 ug/L	4.8155 ppb	17:46:58
2	Sn 189.927†	11.5	8.5	1.8809 ug/L	1.8809 ppb	17:46:58
2	Ti 334.940†	-995.8	80.9	0.1282 ug/L	0.1282 ppb	17:46:38
2	Tl 190.801†	-26.6	-1.7	-0.6520 ug/L	-0.6520 ppb	17:46:58
2	U 409.014†	-2041.9	-20.3	-0.6028 ug/L	-0.6028 ppb	17:46:38
2	V 292.402†	-1363.7	54.8	0.4211 ug/L	0.4211 ppb	17:46:38
2	Zn 213.857†	691.4	89.5	1.0601 ug/L	1.0601 ppb	17:46:58
2	SiO2†	642.2	93.2	7.4389 ug/L	7.4389 ppb	17:47:34
3	Sc Radial	3994.4	3994.4	99.0 %		17:46:06
3	Y RADIAL	4401.2	4401.2	97.41 %		17:45:46
3	Al 396.153Radial†	-74.7	4.2	4.5215 ug/L	4.5215 ppb	17:46:06
3	Ca 317.933Radial†	23.8	6.9	13.924 ug/L	13.924 ppb	17:46:06
3	Fe 238.204 Radial†	17.0	8.2	102.31 ug/L	102.31 ppb	17:46:06
3	K 766.490 Radial†	2714.5	-62.0	-12.371 ug/L	-12.371 ppb	17:45:46
3	Mg 279.077 IEC†	-0.1	-0.8	-35.813 ug/L	-35.813 ppb	17:46:06
3	Na 589.592 Radial†	-487.1	-31.1	-12.198 ug/L	-12.198 ppb	17:45:46
3	Sr 421.552†	67.4	-2.0	-0.0169 ug/L	-0.0169 ppb	17:45:46
3	Sc 361.383	827403.3	827403.3	98.517 %		17:47:03
3	Y 371.029	706139.4	706139.4	98.613 %		17:47:03
3	Ag 328.068†	125.2	-126.3	-0.6056 ug/L	-0.6056 ppb	17:47:03
3	As 188.979†	-19.1	1.5	0.8040 ug/L	0.8040 ppb	17:47:23
3	B 249.677†	-221.3	25.5	0.6846 ug/L	0.6846 ppb	17:47:23
3	Ba 233.527†	33.0	15.0	0.1447 ug/L	0.1447 ppb	17:47:23
3	Be 313.107†	-4175.4	24.5	0.0104 ug/L	0.0104 ppb	17:47:03
3	Cd 226.502†	-171.1	-7.2	-0.1118 ug/L	-0.1118 ppb	17:47:23
3	Co 228.616†	-30.2	8.2	0.2120 ug/L	0.2120 ppb	17:47:23
3	Cr 267.716†	115.2	22.0	0.2965 ug/L	0.2965 ppb	17:47:23
3	Cu 324.752†	6507.6	252.7	0.8230 ug/L	0.8230 ppb	17:47:03
3	Mn 257.610†	1102.9	667.0	0.8867 ug/L	0.8867 ppb	17:47:23
3	Mo 202.031†	10.6	-3.5	-0.2954 ug/L	-0.2954 ppb	17:47:23
3	Ni 231.604†	91.3	-0.9	-0.0293 ug/L	-0.0293 ppb	17:47:23
3	P 214.914†	174.9	9.3	6.4761 ug/L	6.4761 ppb	17:47:23
3	Pb 220.353†	-63.1	-5.2	-0.8027 ug/L	-0.8027 ppb	17:47:23
3	S 181.975 Axial†	27.1	3.2	5.5635 ug/L	5.5635 ppb	17:47:23
3	Sb 206.836†	19.7	-6.6	-2.7901 ug/L	-2.7901 ppb	17:47:23
3	Se 196.026†	-16.5	0.2	0.4630 ug/L	0.4630 ppb	17:47:23
3	Si 251.611†	639.9	124.1	4.6227 ug/L	4.6227 ppb	17:47:23
3	Sn 189.927†	10.2	7.3	1.6105 ug/L	1.6105 ppb	17:47:23
3	Ti 334.940†	-940.7	128.4	0.2241 ug/L	0.2241 ppb	17:47:03
3	Tl 190.801†	-31.3	-6.7	-2.5876 ug/L	-2.5876 ppb	17:47:23
3	U 409.014†	-1888.8	117.9	3.4574 ug/L	3.4574 ppb	17:47:03
3	V 292.402†	-1326.5	81.1	0.6118 ug/L	0.6118 ppb	17:47:03
3	Zn 213.857†	701.2	105.4	1.2356 ug/L	1.2356 ppb	17:47:23
3	SiO2†	678.8	135.6	10.843 ug/L	10.843 ppb	17:47:39

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830131.5	98.842 %	0.4362			0.44%
Sc Radial	4069.4	101 %	2.0			1.98%
Y 371.029	708436.2	98.933 %	0.4968			0.50%
Y RADIAL	4236.5	93.77 %	7.510			8.01%
Ag 328.068†	-102.4	-0.4928 ug/L	0.14132	-0.4928 ppb	0.14132	28.68%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	7.1	7.5176 ug/L	4.38764	7.5176 ppb	4.38764	58.36%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.4	-1.7892 ug/L	2.54578	-1.7892 ppb	2.54578	142.29%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	33.9	0.9181 ug/L	0.58087	0.9181 ppb	0.58087	63.27%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.2	0.0895 ug/L	0.10345	0.0895 ppb	0.10345	115.54%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-57.1	-0.0228 ug/L	0.04312	-0.0228 ppb	0.04312	188.79%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.6	15.362 ug/L	6.6172	15.362 ppb	6.6172	43.07%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	3.0	0.0354 ug/L	0.14444	0.0354 ppb	0.14444 408.44%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	2.8	0.0711 ug/L	0.15115	0.0711 ppb	0.15115 212.69%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	18.2	0.2453 ug/L	0.04470	0.2453 ppb	0.04470 18.23%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	208.0	0.6774 ug/L	0.18956	0.6774 ppb	0.18956 27.98%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	6.0	74.986 ug/L	36.0199	74.986 ppb	36.0199 48.04%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-219.5	-43.820 ug/L	27.5624	-43.820 ppb	27.5624 62.90%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.8	78.895 ug/L	100.6027	78.895 ppb	100.6027 127.52%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	646.5	0.8524 ug/L	0.12108	0.8524 ppb	0.12108 14.21%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	0.7	0.0689 ug/L	0.32666	0.0689 ppb	0.32666 474.18%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	8.4	3.3135 ug/L	13.44259	3.3135 ppb	13.44259 405.69%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-7.9	-0.2472 ug/L	0.19312	-0.2472 ppb	0.19312 78.14%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	12.6	8.8896 ug/L	2.87673	8.8896 ppb	2.87673 32.36%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	5.4	0.8050 ug/L	1.39346	0.8050 ppb	1.39346 173.09%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	6.2	10.789 ug/L	6.4479	10.789 ppb	6.4479 59.76%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	1.0	0.4292 ug/L	2.82825	0.4292 ppb	2.82825 658.90%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-1.9	-1.2901 ug/L	2.46129	-1.2901 ppb	2.46129 190.78%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	130.0	4.8398 ug/L	0.23023	4.8398 ppb	0.23023 4.76%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	4.0	0.8898 ug/L	1.48859	0.8898 ppb	1.48859 167.29%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-7.0	-0.0594 ug/L	0.04423	-0.0594 ppb	0.04423 74.42%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	91.6	0.1522 ug/L	0.06340	0.1522 ppb	0.06340 41.65%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-3.5	-1.3567 ug/L	1.06977	-1.3567 ppb	1.06977 78.85%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	72.7	2.1304 ug/L	2.36736	2.1304 ppb	2.36736 111.12%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	76.2	0.5824 ug/L	0.14885	0.5824 ppb	0.14885 25.56%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	99.6	1.1729 ug/L	0.09788	1.1729 ppb	0.09788 8.35%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	104.2	8.3206 ug/L	2.21756	8.3206 ppb	2.21756 26.65%
QC value within limits for SiO2 Recovery = Not calculated					
All analyte(s) passed QC.					

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/25/2010 18:45:58

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	4049.4	4049.4	100 %		18:48:10
1	Y RADIAL	4465.4	4465.4	98.84 %		18:47:50
1	Al 396.153Radial†	4598.2	4660.1	4942.3 ug/L	4942.3 ppb	18:47:50
1	Ca 317.933Radial†	2493.0	2466.2	5010.7 ug/L	5010.7 ppb	18:48:10
1	Fe 238.204 Radial†	418.3	407.7	5113.5 ug/L	5113.5 ppb	18:48:10
1	K 766.490 Radial†	27337.5	24428.9	4870.4 ug/L	4870.4 ppb	18:47:50
1	Mg 279.077 IEC†	117.1	116.0	5066.6 ug/L	5066.6 ppb	18:48:10
1	Na 589.592 Radial†	25329.3	25692.6	10090 ug/L	10090 ppb	18:47:50
1	Sr 421.552†	57920.8	57627.6	490.69 ug/L	490.69 ppb	18:47:50
1	Sc 361.383	838446.9	838446.9	99.832 %		18:49:07
1	Y 371.029	706173.4	706173.4	98.617 %		18:49:07
1	Ag 328.068†	100990.4	100906.6	511.83 ug/L	511.83 ppb	18:49:12
1	As 188.979†	900.3	922.6	498.94 ug/L	498.94 ppb	18:49:32
1	B 249.677†	17520.2	17799.8	486.98 ug/L	486.98 ppb	18:49:12
1	Ba 233.527†	53140.2	53211.0	500.08 ug/L	500.08 ppb	18:49:12
1	Be 313.107†	1214320.0	1220622.7	496.71 ug/L	496.71 ppb	18:49:07
1	Cd 226.502†	35279.0	35504.6	500.64 ug/L	500.64 ppb	18:49:12
1	Co 228.616†	19556.2	19628.0	510.92 ug/L	510.92 ppb	18:49:12
1	Cr 267.716†	38265.2	38234.5	498.83 ug/L	498.83 ppb	18:49:12
1	Cu 324.752†	160177.8	154094.2	499.64 ug/L	499.64 ppb	18:49:12
1	Mn 257.610†	375631.9	375810.5	493.38 ug/L	493.38 ppb	18:49:12
1	Mo 202.031†	5686.7	5682.1	500.00 ug/L	500.00 ppb	18:49:32
1	Ni 231.604†	16240.2	16173.9	504.72 ug/L	504.72 ppb	18:49:12
1	P 214.914†	3607.6	3445.5	2379.1 ug/L	2379.1 ppb	18:49:32
1	Pb 220.353†	3210.9	3275.1	495.17 ug/L	495.17 ppb	18:49:32
1	S 181.975 Axial†	596.4	573.0	1003.4 ug/L	1003.4 ppb	18:49:32
1	Sb 206.836†	1212.3	1187.7	522.55 ug/L	522.55 ppb	18:49:32
1	Se 196.026†	597.5	615.5	509.01 ug/L	509.01 ppb	18:49:32
1	Si 251.611†	68268.7	67858.0	2520.4 ug/L	2520.4 ppb	18:49:12
1	Sn 189.927†	2239.0	2239.7	496.63 ug/L	496.63 ppb	18:49:32
1	Ti 334.940†	288678.9	290247.2	499.22 ug/L	499.22 ppb	18:49:12
1	Tl 190.801†	1229.8	1257.0	489.32 ug/L	489.32 ppb	18:49:32
1	U 409.014†	15619.6	17681.0	518.56 ug/L	518.56 ppb	18:49:12
1	V 292.402†	63337.2	64871.2	506.78 ug/L	506.78 ppb	18:49:12
1	Zn 213.857†	42657.3	42122.6	495.75 ug/L	495.75 ppb	18:49:12
1	SiO2†	66918.3	66477.4	5297.6 ug/L	5297.6 ppb	18:50:39
2	Sc Radial	4034.6	4034.6	100 %		18:48:35
2	Y RADIAL	4342.5	4342.5	96.11 %		18:48:15
2	Al 396.153Radial†	4523.1	4601.8	4880.1 ug/L	4880.1 ppb	18:48:15
2	Ca 317.933Radial†	2498.9	2481.2	5041.2 ug/L	5041.2 ppb	18:48:35
2	Fe 238.204 Radial†	421.5	412.4	5171.6 ug/L	5171.6 ppb	18:48:35
2	K 766.490 Radial†	27010.7	24202.2	4825.2 ug/L	4825.2 ppb	18:48:15
2	Mg 279.077 IEC†	118.6	117.9	5148.1 ug/L	5148.1 ppb	18:48:35
2	Na 589.592 Radial†	24675.7	25131.8	9869.6 ug/L	9869.6 ppb	18:48:15
2	Sr 421.552†	56330.7	56249.7	478.96 ug/L	478.96 ppb	18:48:15
2	Sc 361.383	844461.1	844461.1	100.55 %		18:49:38
2	Y 371.029	711856.7	711856.7	99.411 %		18:49:38
2	Ag 328.068†	99385.3	98589.9	500.13 ug/L	500.13 ppb	18:49:43
2	As 188.979†	907.5	923.3	499.22 ug/L	499.22 ppb	18:50:03
2	B 249.677†	17213.6	17369.9	475.19 ug/L	475.19 ppb	18:49:43
2	Ba 233.527†	52317.2	52013.4	488.83 ug/L	488.83 ppb	18:49:43
2	Be 313.107†	1210389.9	1208051.1	491.58 ug/L	491.58 ppb	18:49:38
2	Cd 226.502†	34665.9	34643.2	488.48 ug/L	488.48 ppb	18:49:43
2	Co 228.616†	19261.5	19195.3	499.69 ug/L	499.69 ppb	18:49:43
2	Cr 267.716†	37650.2	37349.9	487.30 ug/L	487.30 ppb	18:49:43
2	Cu 324.752†	157626.4	150413.9	487.72 ug/L	487.72 ppb	18:49:43
2	Mn 257.610†	369718.5	367249.6	482.15 ug/L	482.15 ppb	18:49:43
2	Mo 202.031†	5752.1	5706.5	502.16 ug/L	502.16 ppb	18:50:03
2	Ni 231.604†	16027.3	15846.3	494.50 ug/L	494.50 ppb	18:49:43

2	P 214.914†	3614.3	3426.4	2367.7 ug/L	2367.7 ppb	18:50:03
2	Pb 220.353†	3240.4	3281.5	496.12 ug/L	496.12 ppb	18:50:03
2	S 181.975 Axial†	595.1	567.5	993.83 ug/L	993.83 ppb	18:50:03
2	Sb 206.836†	1239.9	1206.5	530.67 ug/L	530.67 ppb	18:50:03
2	Se 196.026†	626.7	640.2	528.89 ug/L	528.89 ppb	18:50:03
2	Si 251.611†	67167.9	66276.1	2461.5 ug/L	2461.5 ppb	18:49:43
2	Sn 189.927†	2272.5	2257.1	500.49 ug/L	500.49 ppb	18:50:03
2	Ti 334.940†	283933.7	283468.5	487.57 ug/L	487.57 ppb	18:49:43
2	Tl 190.801†	1253.0	1271.2	494.75 ug/L	494.75 ppb	18:50:03
2	U 409.014†	15246.4	17198.5	504.38 ug/L	504.38 ppb	18:49:43
2	V 292.402†	62232.1	63320.2	494.84 ug/L	494.84 ppb	18:49:43
2	Zn 213.857†	42062.4	41226.5	485.18 ug/L	485.18 ppb	18:49:43
2	SiO2†	68034.1	67109.7	5348.1 ug/L	5348.1 ppb	18:50:44
3	Sc Radial	4075.2	4075.2	101 %		18:49:00
3	Y RADIAL	4395.5	4395.5	97.29 %		18:48:40
3	Al 396.153Radial†	4514.5	4548.4	4823.5 ug/L	4823.5 ppb	18:48:40
3	Ca 317.933Radial†	2502.6	2460.0	4998.1 ug/L	4998.1 ppb	18:49:00
3	Fe 238.204 Radial†	417.0	403.8	5064.3 ug/L	5064.3 ppb	18:49:00
3	K 766.490 Radial†	26756.1	23681.4	4721.3 ug/L	4721.3 ppb	18:48:40
3	Mg 279.077 IEC†	119.5	117.6	5136.2 ug/L	5136.2 ppb	18:49:00
3	Na 589.592 Radial†	24735.1	24945.0	9796.2 ug/L	9796.2 ppb	18:48:40
3	Sr 421.552†	56348.3	55706.5	474.33 ug/L	474.33 ppb	18:48:40
3	Sc 361.383	845724.4	845724.4	100.70 %		18:50:09
3	Y 371.029	711950.6	711950.6	99.424 %		18:50:09
3	Ag 328.068†	100046.2	99098.5	502.67 ug/L	502.67 ppb	18:50:14
3	As 188.979†	894.9	909.5	491.83 ug/L	491.83 ppb	18:50:34
3	B 249.677†	17314.1	17444.1	477.24 ug/L	477.24 ppb	18:50:14
3	Ba 233.527†	52581.3	52197.9	490.56 ug/L	490.56 ppb	18:50:14
3	Be 313.107†	1212023.3	1207875.0	491.51 ug/L	491.51 ppb	18:50:09
3	Cd 226.502†	34920.4	34844.5	491.33 ug/L	491.33 ppb	18:50:14
3	Co 228.616†	19351.6	19256.2	501.26 ug/L	501.26 ppb	18:50:14
3	Cr 267.716†	37850.5	37492.9	489.16 ug/L	489.16 ppb	18:50:14
3	Cu 324.752†	158445.1	150992.8	489.59 ug/L	489.59 ppb	18:50:14
3	Mn 257.610†	371360.7	368331.1	483.56 ug/L	483.56 ppb	18:50:14
3	Mo 202.031†	5683.6	5629.9	495.42 ug/L	495.42 ppb	18:50:34
3	Ni 231.604†	16129.0	15923.5	496.91 ug/L	496.91 ppb	18:50:14
3	P 214.914†	3600.9	3407.7	2353.9 ug/L	2353.9 ppb	18:50:34
3	Pb 220.353†	3210.9	3247.4	490.96 ug/L	490.96 ppb	18:50:34
3	S 181.975 Axial†	586.8	558.3	977.70 ug/L	977.70 ppb	18:50:34
3	Sb 206.836†	1213.5	1178.5	518.51 ug/L	518.51 ppb	18:50:34
3	Se 196.026†	608.6	621.3	513.49 ug/L	513.49 ppb	18:50:34
3	Si 251.611†	67464.0	66470.4	2468.8 ug/L	2468.8 ppb	18:50:14
3	Sn 189.927†	2246.4	2227.7	493.99 ug/L	493.99 ppb	18:50:34
3	Ti 334.940†	285198.1	284302.2	489.00 ug/L	489.00 ppb	18:50:14
3	Tl 190.801†	1247.9	1264.3	492.07 ug/L	492.07 ppb	18:50:34
3	U 409.014†	15195.6	17125.3	502.24 ug/L	502.24 ppb	18:50:14
3	V 292.402†	62593.4	63586.6	496.81 ug/L	496.81 ppb	18:50:14
3	Zn 213.857†	42259.2	41359.5	486.76 ug/L	486.76 ppb	18:50:14
3	SiO2†	68591.0	67561.7	5384.4 ug/L	5384.4 ppb	18:50:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842877.5	100.36 %	0.463			0.46%
Sc Radial	4053.1	100 %	0.5			0.51%
Y 371.029	709993.6	99.151 %	0.4621			0.47%
Y RADIAL	4401.2	97.41 %	1.365			1.40%
Ag 328.068†	99531.7	504.87 ug/L	6.153	504.87 ppb	6.153	1.22%
QC value within limits for Ag 328.068 Recovery = 100.97%						
Al 396.153Radial†	4603.5	4882.0 ug/L	59.46	4882.0 ppb	59.46	1.22%
QC value within limits for Al 396.153Radial Recovery = 97.64%						
As 188.979†	918.5	496.67 ug/L	4.186	496.67 ppb	4.186	0.84%
QC value within limits for As 188.979 Recovery = 99.33%						
B 249.677†	17537.9	479.81 ug/L	6.300	479.81 ppb	6.300	1.31%
QC value within limits for B 249.677 Recovery = 95.96%						
Ba 233.527†	52474.1	493.16 ug/L	6.059	493.16 ppb	6.059	1.23%
QC value within limits for Ba 233.527 Recovery = 98.63%						
Be 313.107†	1212182.9	493.27 ug/L	2.982	493.27 ppb	2.982	0.60%
QC value within limits for Be 313.107 Recovery = 98.65%						
Ca 317.933Radial†	2469.1	5016.7 ug/L	22.19	5016.7 ppb	22.19	0.44%

QC value within limits for Ca 317.933 Radial Recovery = 100.33%

Cd 226.502†	34997.4	493.49 ug/L	6.362	493.49 ppb	6.362	1.29%
QC value within limits for Cd 226.502 Recovery = 98.70%						
Co 228.616†	19359.8	503.96 ug/L	6.084	503.96 ppb	6.084	1.21%
QC value within limits for Co 228.616 Recovery = 100.79%						
Cr 267.716†	37692.4	491.76 ug/L	6.187	491.76 ppb	6.187	1.26%
QC value within limits for Cr 267.716 Recovery = 98.35%						
Cu 324.752†	151833.6	492.32 ug/L	6.412	492.32 ppb	6.412	1.30%
QC value within limits for Cu 324.752 Recovery = 98.46%						
Fe 238.204 Radial†	408.0	5116.5 ug/L	53.67	5116.5 ppb	53.67	1.05%
QC value within limits for Fe 238.204 Radial Recovery = 102.33%						
K 766.490 Radial†	24104.2	4805.6 ug/L	76.46	4805.6 ppb	76.46	1.59%
QC value within limits for K 766.490 Radial Recovery = 96.11%						
Mg 279.077 IEC†	117.1	5117.0 ug/L	44.03	5117.0 ppb	44.03	0.86%
QC value within limits for Mg 279.077 IEC Recovery = 102.34%						
Mn 257.610†	370463.8	486.36 ug/L	6.118	486.36 ppb	6.118	1.26%
QC value within limits for Mn 257.610 Recovery = 97.27%						
Mo 202.031†	5672.8	499.19 ug/L	3.444	499.19 ppb	3.444	0.69%
QC value within limits for Mo 202.031 Recovery = 99.84%						
Na 589.592 Radial†	25256.4	9918.6 ug/L	152.81	9918.6 ppb	152.81	1.54%
QC value within limits for Na 589.592 Radial Recovery = 99.19%						
Ni 231.604†	15981.2	498.71 ug/L	5.345	498.71 ppb	5.345	1.07%
QC value within limits for Ni 231.604 Recovery = 99.74%						
P 214.914†	3426.5	2366.9 ug/L	12.61	2366.9 ppb	12.61	0.53%
QC value within limits for P 214.914 Recovery = 94.67%						
Pb 220.353†	3268.0	494.08 ug/L	2.745	494.08 ppb	2.745	0.56%
QC value within limits for Pb 220.353 Recovery = 98.82%						
S 181.975 Axial†	566.3	991.65 ug/L	13.003	991.65 ppb	13.003	1.31%
QC value within limits for S 181.975 Axial Recovery = 99.17%						
Sb 206.836†	1190.9	523.91 ug/L	6.190	523.91 ppb	6.190	1.18%
QC value within limits for Sb 206.836 Recovery = 104.78%						
Se 196.026†	625.7	517.13 ug/L	10.425	517.13 ppb	10.425	2.02%
QC value within limits for Se 196.026 Recovery = 103.43%						
Si 251.611†	66868.2	2483.6 ug/L	32.12	2483.6 ppb	32.12	1.29%
QC value within limits for Si 251.611 Recovery = 99.34%						
Sn 189.927†	2241.5	497.04 ug/L	3.271	497.04 ppb	3.271	0.66%
QC value within limits for Sn 189.927 Recovery = 99.41%						
Sr 421.552†	56527.9	481.33 ug/L	8.433	481.33 ppb	8.433	1.75%
QC value within limits for Sr 421.552 Recovery = 96.27%						
Ti 334.940†	286006.0	491.93 ug/L	6.357	491.93 ppb	6.357	1.29%
QC value within limits for Ti 334.940 Recovery = 98.39%						
Tl 190.801†	1264.2	492.05 ug/L	2.717	492.05 ppb	2.717	0.55%
QC value within limits for Tl 190.801 Recovery = 98.41%						
U 409.014†	17334.9	508.39 ug/L	8.870	508.39 ppb	8.870	1.74%
QC value within limits for U 409.014 Recovery = 101.68%						
V 292.402†	63926.0	499.48 ug/L	6.403	499.48 ppb	6.403	1.28%
QC value within limits for V 292.402 Recovery = 99.90%						
Zn 213.857†	41569.5	489.23 ug/L	5.703	489.23 ppb	5.703	1.17%
QC value within limits for Zn 213.857 Recovery = 97.85%						
SiO2†	67049.6	5343.3 ug/L	43.57	5343.3 ppb	43.57	0.82%
QC value within limits for SiO2 Recovery = 99.92%						

All analyte(s) passed QC.

Sequence No.: 21
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/25/2010 18:52:59
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4046.3	4046.3	100 %		18:55:11
1	Y RADIAL	4496.7	4496.7	99.53 %		18:54:51
1	Al 396.153Radial†	-71.2	8.7	9.2224 ug/L	9.2224 ppb	18:55:11
1	Ca 317.933Radial†	23.0	5.8	11.746 ug/L	11.746 ppb	18:55:11
1	Fe 238.204 Radial†	10.5	1.4	17.735 ug/L	17.735 ppb	18:55:11
1	K 766.490 Radial†	2723.9	-87.8	-17.531 ug/L	-17.531 ppb	18:54:51
1	Mg 279.077 IEC†	3.3	2.6	114.32 ug/L	114.32 ppb	18:55:11
1	Na 589.592 Radial†	-461.2	1.1	0.4168 ug/L	0.4168 ppb	18:54:51
1	Sr 421.552†	61.2	-9.0	-0.0771 ug/L	-0.0771 ppb	18:54:51
1	Sc 361.383	825278.9	825278.9	98.264 %		18:56:08
1	Y 371.029	707417.3	707417.3	98.791 %		18:56:08
1	Ag 328.068†	190.8	-59.2	-0.2864 ug/L	-0.2864 ppb	18:56:08
1	As 188.979†	-25.6	-5.2	-2.7857 ug/L	-2.7857 ppb	18:56:28
1	B 249.677†	-332.8	-88.5	-2.4346 ug/L	-2.4346 ppb	18:56:28
1	Ba 233.527†	42.5	24.7	0.2340 ug/L	0.2340 ppb	18:56:28
1	Be 313.107†	-4373.2	-187.7	-0.0758 ug/L	-0.0758 ppb	18:56:08
1	Cd 226.502†	-178.2	-14.9	-0.2134 ug/L	-0.2134 ppb	18:56:28
1	Co 228.616†	-40.2	-2.0	-0.0524 ug/L	-0.0524 ppb	18:56:28
1	Cr 267.716†	88.3	-5.1	-0.0615 ug/L	-0.0615 ppb	18:56:28
1	Cu 324.752†	6431.6	192.5	0.6271 ug/L	0.6271 ppb	18:56:08
1	Mn 257.610†	1246.0	815.6	1.0672 ug/L	1.0672 ppb	18:56:08
1	Mo 202.031†	17.1	3.3	0.2879 ug/L	0.2879 ppb	18:56:28
1	Ni 231.604†	74.2	-18.1	-0.5644 ug/L	-0.5644 ppb	18:56:28
1	P 214.914†	190.4	25.5	18.234 ug/L	18.234 ppb	18:56:28
1	Pb 220.353†	-61.8	-4.1	-0.6197 ug/L	-0.6197 ppb	18:56:28
1	S 181.975 Axial†	27.2	3.3	5.7959 ug/L	5.7959 ppb	18:56:28
1	Sb 206.836†	21.4	-4.8	-2.0292 ug/L	-2.0292 ppb	18:56:28
1	Se 196.026†	-11.9	4.8	3.8739 ug/L	3.8739 ppb	18:56:28
1	Si 251.611†	574.3	59.0	2.1917 ug/L	2.1917 ppb	18:56:28
1	Sn 189.927†	8.4	5.5	1.2122 ug/L	1.2122 ppb	18:56:28
1	Ti 334.940†	-961.3	105.0	0.1746 ug/L	0.1746 ppb	18:56:08
1	Tl 190.801†	-28.7	-4.2	-1.6101 ug/L	-1.6101 ppb	18:56:28
1	U 409.014†	-2123.8	-126.1	-3.7120 ug/L	-3.7120 ppb	18:56:08
1	V 292.402†	-1288.5	116.2	0.8924 ug/L	0.8924 ppb	18:56:08
1	Zn 213.857†	691.0	96.8	1.1497 ug/L	1.1497 ppb	18:56:28
1	SiO2†	563.7	20.3	1.6112 ug/L	1.6112 ppb	18:57:39
2	Sc Radial	4058.5	4058.5	101 %		18:55:36
2	Y RADIAL	4484.1	4484.1	99.25 %		18:55:16
2	Al 396.153Radial†	-67.5	12.6	13.365 ug/L	13.365 ppb	18:55:36
2	Ca 317.933Radial†	21.8	4.5	9.2036 ug/L	9.2036 ppb	18:55:36
2	Fe 238.204 Radial†	12.8	3.7	46.372 ug/L	46.372 ppb	18:55:36
2	K 766.490 Radial†	2461.3	-356.9	-71.258 ug/L	-71.258 ppb	18:55:16
2	Mg 279.077 IEC†	2.1	1.4	61.898 ug/L	61.898 ppb	18:55:36
2	Na 589.592 Radial†	-456.6	7.1	2.7826 ug/L	2.7826 ppb	18:55:16
2	Sr 421.552†	67.0	-3.4	-0.0290 ug/L	-0.0290 ppb	18:55:16
2	Sc 361.383	832797.8	832797.8	99.160 %		18:56:33
2	Y 371.029	716108.5	716108.5	100.00 %		18:56:33
2	Ag 328.068†	206.3	-45.3	-0.2180 ug/L	-0.2180 ppb	18:56:33
2	As 188.979†	-26.2	-5.6	-2.9991 ug/L	-2.9991 ppb	18:56:53
2	B 249.677†	-333.9	-86.6	-2.3873 ug/L	-2.3873 ppb	18:56:53
2	Ba 233.527†	42.4	24.3	0.2290 ug/L	0.2290 ppb	18:56:53
2	Be 313.107†	-4400.0	-174.6	-0.0704 ug/L	-0.0704 ppb	18:56:33
2	Cd 226.502†	-155.0	10.1	0.1388 ug/L	0.1388 ppb	18:56:53
2	Co 228.616†	-49.4	-10.9	-0.2842 ug/L	-0.2842 ppb	18:56:53
2	Cr 267.716†	78.2	-16.1	-0.2062 ug/L	-0.2062 ppb	18:56:53
2	Cu 324.752†	6559.7	262.5	0.8514 ug/L	0.8514 ppb	18:56:33
2	Mn 257.610†	834.2	388.8	0.5122 ug/L	0.5122 ppb	18:56:33
2	Mo 202.031†	19.7	5.7	0.5020 ug/L	0.5020 ppb	18:56:53
2	Ni 231.604†	84.8	-8.0	-0.2510 ug/L	-0.2510 ppb	18:56:53

2	P 214.914†	176.1	9.3	6.5257 ug/L	6.5257 ppb	18:56:53
2	Pb 220.353†	-46.1	12.3	1.8576 ug/L	1.8576 ppb	18:56:53
2	S 181.975 Axial†	18.4	-5.9	-10.291 ug/L	-10.291 ppb	18:56:53
2	Sb 206.836†	27.9	1.5	0.6537 ug/L	0.6537 ppb	18:56:53
2	Se 196.026†	-20.0	-3.2	-2.4366 ug/L	-2.4366 ppb	18:56:53
2	Si 251.611†	553.7	32.9	1.2189 ug/L	1.2189 ppb	18:56:53
2	Sn 189.927†	9.3	6.3	1.3913 ug/L	1.3913 ppb	18:56:53
2	Ti 334.940†	-954.9	120.4	0.2015 ug/L	0.2015 ppb	18:56:33
2	Tl 190.801†	-25.2	-0.3	-0.1240 ug/L	-0.1240 ppb	18:56:53
2	U 409.014†	-1879.3	139.9	4.1127 ug/L	4.1127 ppb	18:56:33
2	V 292.402†	-1424.1	-8.6	-0.0572 ug/L	-0.0572 ppb	18:56:33
2	Zn 213.857†	676.0	75.3	0.8879 ug/L	0.8879 ppb	18:56:53
2	SiO2†	589.1	40.7	3.2416 ug/L	3.2416 ppb	18:57:59
3	Sc Radial	4069.3	4069.3	101 %		18:56:01
3	Y RADIAL	4480.7	4480.7	99.17 %		18:55:41
3	Al 396.153Radial†	-71.4	8.8	9.4368 ug/L	9.4368 ppb	18:56:01
3	Ca 317.933Radial†	27.9	10.5	21.304 ug/L	21.304 ppb	18:56:01
3	Fe 238.204 Radial†	12.9	3.7	46.857 ug/L	46.857 ppb	18:56:01
3	K 766.490 Radial†	2670.9	-155.6	-31.074 ug/L	-31.074 ppb	18:55:41
3	Mg 279.077 IEC†	3.5	2.8	122.76 ug/L	122.76 ppb	18:56:01
3	Na 589.592 Radial†	-411.5	53.0	20.804 ug/L	20.804 ppb	18:55:41
3	Sr 421.552†	42.7	-27.7	-0.2363 ug/L	-0.2363 ppb	18:55:41
3	Sc 361.383	829974.6	829974.6	98.824 %		18:56:59
3	Y 371.029	714580.1	714580.1	99.791 %		18:56:59
3	Ag 328.068†	141.5	-110.2	-0.5410 ug/L	-0.5410 ppb	18:56:59
3	As 188.979†	-18.4	2.2	1.2122 ug/L	1.2122 ppb	18:57:19
3	B 249.677†	-308.1	-61.6	-1.7004 ug/L	-1.7004 ppb	18:57:19
3	Ba 233.527†	47.5	29.6	0.2795 ug/L	0.2795 ppb	18:57:19
3	Be 313.107†	-4439.6	-229.7	-0.0929 ug/L	-0.0929 ppb	18:56:59
3	Cd 226.502†	-177.0	-12.7	-0.1848 ug/L	-0.1848 ppb	18:57:19
3	Co 228.616†	-42.6	-4.2	-0.1124 ug/L	-0.1124 ppb	18:57:19
3	Cr 267.716†	88.4	-5.5	-0.0662 ug/L	-0.0662 ppb	18:57:19
3	Cu 324.752†	6564.7	290.0	0.9424 ug/L	0.9424 ppb	18:56:59
3	Mn 257.610†	803.9	361.1	0.4734 ug/L	0.4734 ppb	18:56:59
3	Mo 202.031†	8.3	-5.8	-0.5032 ug/L	-0.5032 ppb	18:57:19
3	Ni 231.604†	67.2	-25.6	-0.7981 ug/L	-0.7981 ppb	18:57:19
3	P 214.914†	203.7	37.9	27.052 ug/L	27.052 ppb	18:57:19
3	Pb 220.353†	-41.9	16.4	2.4614 ug/L	2.4614 ppb	18:57:19
3	S 181.975 Axial†	25.2	1.2	2.0362 ug/L	2.0362 ppb	18:57:19
3	Sb 206.836†	36.3	10.1	4.3057 ug/L	4.3057 ppb	18:57:19
3	Se 196.026†	-12.5	4.3	3.5808 ug/L	3.5808 ppb	18:57:19
3	Si 251.611†	589.2	70.8	2.6410 ug/L	2.6410 ppb	18:57:19
3	Sn 189.927†	5.9	2.9	0.6463 ug/L	0.6463 ppb	18:57:19
3	Ti 334.940†	-981.4	90.2	0.1477 ug/L	0.1477 ppb	18:56:59
3	Tl 190.801†	-24.7	0.1	0.0519 ug/L	0.0519 ppb	18:57:19
3	U 409.014†	-1978.2	33.4	0.9774 ug/L	0.9774 ppb	18:56:59
3	V 292.402†	-1376.1	35.0	0.2602 ug/L	0.2602 ppb	18:56:59
3	Zn 213.857†	689.9	91.6	1.0855 ug/L	1.0855 ppb	18:57:19
3	SiO2†	564.9	18.2	1.4710 ug/L	1.4710 ppb	18:58:19

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	829350.4	98.749 %	0.4522			0.46%
Sc Radial	4058.0	101 %	0.3			0.28%
Y 371.029	712702.0	99.529 %	0.6480			0.65%
Y RADIAL	4487.2	99.32 %	0.187			0.19%
Ag 328.068†	-71.6	-0.3485 ug/L	0.17020	-0.3485 ppb	0.17020	48.84%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.0	10.675 ug/L	2.3320	10.675 ppb	2.3320	21.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.9	-1.5242 ug/L	2.37220	-1.5242 ppb	2.37220	155.64%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-78.9	-2.1741 ug/L	0.41089	-2.1741 ppb	0.41089	18.90%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	26.2	0.2475 ug/L	0.02783	0.2475 ppb	0.02783	11.24%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-197.3	-0.0797 ug/L	0.01175	-0.0797 ppb	0.01175	14.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	6.9	14.085 ug/L	6.3799	14.085 ppb	6.3799	45.30%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-5.8	-0.0865 ug/L	0.19561	-0.0865 ppb	0.19561 226.24%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-5.7	-0.1497 ug/L	0.12034	-0.1497 ppb	0.12034 80.41%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-8.9	-0.1113 ug/L	0.08220	-0.1113 ppb	0.08220 73.86%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	248.3	0.8070 ug/L	0.16231	0.8070 ppb	0.16231 20.11%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	3.0	36.988 ug/L	16.6756	36.988 ppb	16.6756 45.08%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-200.1	-39.954 ug/L	27.9429	-39.954 ppb	27.9429 69.94%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	2.3	99.660 ug/L	32.9740	99.660 ppb	32.9740 33.09%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	521.8	0.6843 ug/L	0.33217	0.6843 ppb	0.33217 48.55%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	1.1	0.0956 ug/L	0.52947	0.0956 ppb	0.52947 554.10%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	20.4	8.0011 ug/L	11.15044	8.0011 ppb	11.15044 139.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-17.2	-0.5378 ug/L	0.27450	-0.5378 ppb	0.27450 51.04%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	24.3	17.270 ug/L	10.2969	17.270 ppb	10.2969 59.62%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	8.2	1.2331 ug/L	1.63271	1.2331 ppb	1.63271 132.41%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-0.5	-0.8198 ug/L	8.41532	-0.8198 ppb	8.41532 >999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	2.3	0.9767 ug/L	3.17981	0.9767 ppb	3.17981 325.56%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	2.0	1.6727 ug/L	3.56178	1.6727 ppb	3.56178 212.94%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	54.2	2.0172 ug/L	0.72691	2.0172 ppb	0.72691 36.04%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	4.9	1.0833 ug/L	0.38891	1.0833 ppb	0.38891 35.90%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-13.4	-0.1141 ug/L	0.10851	-0.1141 ppb	0.10851 95.07%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	105.2	0.1746 ug/L	0.02693	0.1746 ppb	0.02693 15.42%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-1.5	-0.5608 ug/L	0.91302	-0.5608 ppb	0.91302 162.82%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	15.7	0.4594 ug/L	3.93797	0.4594 ppb	3.93797 857.25%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	47.6	0.3651 ug/L	0.48342	0.3651 ppb	0.48342 132.39%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	87.9	1.0411 ug/L	0.13642	1.0411 ppb	0.13642 13.10%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	26.4	2.1080 ug/L	0.98431	2.1080 ppb	0.98431 46.70%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 29
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/25/2010 19:49:21
 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	4025.6	4025.6	99.8 %		19:51:32
1	Y RADIAL	4465.7	4465.7	98.84 %		19:51:12
1	Al 396.153Radial†	4521.5	4610.4	4889.5 ug/L	4889.5 ppb	19:51:12
1	Ca 317.933Radial†	2460.4	2448.2	4974.1 ug/L	4974.1 ppb	19:51:32
1	Fe 238.204 Radial†	408.8	400.7	5025.3 ug/L	5025.3 ppb	19:51:32
1	K 766.490 Radial†	27102.4	24354.3	4855.7 ug/L	4855.7 ppb	19:51:12
1	Mg 279.077 IEC†	117.4	116.9	5106.8 ug/L	5106.8 ppb	19:51:32
1	Na 589.592 Radial†	24153.5	24663.5	9685.7 ug/L	9685.7 ppb	19:51:12
1	Sr 421.552†	55998.3	56042.3	477.19 ug/L	477.19 ppb	19:51:12
1	Sc 361.383	844064.7	844064.7	100.50 %		19:52:30
1	Y 371.029	711213.7	711213.7	99.321 %		19:52:30
1	Ag 328.068†	100290.4	99536.8	504.87 ug/L	504.87 ppb	19:52:35
1	As 188.979†	892.3	908.7	491.39 ug/L	491.39 ppb	19:52:55
1	B 249.677†	17545.1	17707.8	484.48 ug/L	484.48 ppb	19:52:35
1	Ba 233.527†	52866.8	52584.6	494.19 ug/L	494.19 ppb	19:52:35
1	Be 313.107†	1205628.0	1203878.3	489.89 ug/L	489.89 ppb	19:52:30
1	Cd 226.502†	35186.2	35177.2	496.03 ug/L	496.03 ppb	19:52:35
1	Co 228.616†	19529.6	19471.1	506.85 ug/L	506.85 ppb	19:52:35
1	Cr 267.716†	38146.4	37861.2	493.95 ug/L	493.95 ppb	19:52:35
1	Cu 324.752†	158780.5	151635.9	491.67 ug/L	491.67 ppb	19:52:35
1	Mn 257.610†	373761.1	371444.7	487.64 ug/L	487.64 ppb	19:52:35
1	Mo 202.031†	5687.0	5644.5	496.69 ug/L	496.69 ppb	19:52:55
1	Ni 231.604†	16225.8	16051.3	500.90 ug/L	500.90 ppb	19:52:35
1	P 214.914†	3620.0	3433.7	2372.2 ug/L	2372.2 ppb	19:52:55
1	Pb 220.353†	3220.2	3262.9	493.32 ug/L	493.32 ppb	19:52:55
1	S 181.975 Axial†	592.8	565.5	990.21 ug/L	990.21 ppb	19:52:55
1	Sb 206.836†	1219.7	1187.0	522.18 ug/L	522.18 ppb	19:52:55
1	Se 196.026†	617.5	631.3	521.36 ug/L	521.36 ppb	19:52:55
1	Si 251.611†	67948.6	67084.2	2491.6 ug/L	2491.6 ppb	19:52:35
1	Sn 189.927†	2244.6	2230.4	494.58 ug/L	494.58 ppb	19:52:55
1	Ti 334.940†	286376.9	286032.0	491.97 ug/L	491.97 ppb	19:52:35
1	Tl 190.801†	1244.0	1262.8	491.53 ug/L	491.53 ppb	19:52:55
1	U 409.014†	15473.6	17431.6	511.24 ug/L	511.24 ppb	19:52:35
1	V 292.402†	62775.8	63890.2	499.18 ug/L	499.18 ppb	19:52:35
1	Zn 213.857†	42545.4	41726.8	491.10 ug/L	491.10 ppb	19:52:35
1	SiO2†	67758.3	66867.0	5328.8 ug/L	5328.8 ppb	19:54:02
2	Sc Radial	3956.8	3956.8	98.1 %		19:51:58
2	Y RADIAL	4463.8	4463.8	98.80 %		19:51:37
2	Al 396.153Radial†	4519.3	4687.0	4971.8 ug/L	4971.8 ppb	19:51:37
2	Ca 317.933Radial†	2496.4	2527.8	5135.9 ug/L	5135.9 ppb	19:51:58
2	Fe 238.204 Radial†	410.2	409.2	5131.6 ug/L	5131.6 ppb	19:51:58
2	K 766.490 Radial†	27131.4	24856.5	4955.8 ug/L	4955.8 ppb	19:51:37
2	Mg 279.077 IEC†	119.2	120.8	5278.8 ug/L	5278.8 ppb	19:51:58
2	Na 589.592 Radial†	24431.8	25368.4	9962.6 ug/L	9962.6 ppb	19:51:37
2	Sr 421.552†	56267.3	57293.0	487.84 ug/L	487.84 ppb	19:51:37
2	Sc 361.383	866025.0	866025.0	103.12 %		19:53:00
2	Y 371.029	728876.2	728876.2	101.79 %		19:53:00
2	Ag 328.068†	99245.9	95993.5	486.99 ug/L	486.99 ppb	19:53:06
2	As 188.979†	884.0	878.1	474.90 ug/L	474.90 ppb	19:53:26
2	B 249.677†	17338.1	17064.3	466.83 ug/L	466.83 ppb	19:53:06
2	Ba 233.527†	52430.9	50828.0	477.69 ug/L	477.69 ppb	19:53:06
2	Be 313.107†	1228411.7	1195554.1	486.48 ug/L	486.48 ppb	19:53:00
2	Cd 226.502†	34989.7	34098.8	480.80 ug/L	480.80 ppb	19:53:06
2	Co 228.616†	19359.2	18813.1	489.73 ug/L	489.73 ppb	19:53:06
2	Cr 267.716†	37782.3	36545.6	476.82 ug/L	476.82 ppb	19:53:06
2	Cu 324.752†	157009.8	145912.5	473.13 ug/L	473.13 ppb	19:53:06
2	Mn 257.610†	370621.3	358969.4	471.28 ug/L	471.28 ppb	19:53:06
2	Mo 202.031†	5673.1	5487.5	482.90 ug/L	482.90 ppb	19:53:26
2	Ni 231.604†	16122.4	15541.6	484.99 ug/L	484.99 ppb	19:53:06

2	P 214.914†	3616.0	3338.6	2307.4 ug/L	2307.4 ppb	19:53:26
2	Pb 220.353†	3218.6	3180.2	480.83 ug/L	480.83 ppb	19:53:26
2	S 181.975 Axial†	603.1	560.5	981.54 ug/L	981.54 ppb	19:53:26
2	Sb 206.836†	1220.8	1157.3	509.09 ug/L	509.09 ppb	19:53:26
2	Se 196.026†	614.6	613.0	507.05 ug/L	507.05 ppb	19:53:26
2	Si 251.611†	67252.8	64695.1	2402.9 ug/L	2402.9 ppb	19:53:06
2	Sn 189.927†	2253.8	2182.6	484.02 ug/L	484.02 ppb	19:53:26
2	Ti 334.940†	283605.3	276118.6	474.93 ug/L	474.93 ppb	19:53:06
2	Tl 190.801†	1233.4	1221.2	475.32 ug/L	475.32 ppb	19:53:26
2	U 409.014†	15204.5	16780.2	492.10 ug/L	492.10 ppb	19:53:06
2	V 292.402†	62459.7	61999.9	484.39 ug/L	484.39 ppb	19:53:06
2	Zn 213.857†	42137.6	40257.9	473.76 ug/L	473.76 ppb	19:53:06
2	SiO2†	68153.7	65540.9	5223.3 ug/L	5223.3 ppb	19:54:07
3	Sc Radial	4045.1	4045.1	100 %		19:52:23
3	Y RADIAL	4422.5	4422.5	97.89 %		19:52:03
3	Al 396.153Radial†	4527.1	4594.2	4872.9 ug/L	4872.9 ppb	19:52:03
3	Ca 317.933Radial†	2485.0	2460.9	4999.9 ug/L	4999.9 ppb	19:52:23
3	Fe 238.204 Radial†	407.9	397.7	4988.0 ug/L	4988.0 ppb	19:52:23
3	K 766.490 Radial†	27012.0	24133.5	4811.7 ug/L	4811.7 ppb	19:52:03
3	Mg 279.077 IEC†	118.5	117.4	5130.0 ug/L	5130.0 ppb	19:52:23
3	Na 589.592 Radial†	23993.1	24387.1	9577.2 ug/L	9577.2 ppb	19:52:03
3	Sr 421.552†	55974.1	55748.2	474.69 ug/L	474.69 ppb	19:52:03
3	Sc 361.383	874603.6	874603.6	104.14 %		19:53:31
3	Y 371.029	735798.8	735798.8	102.75 %		19:53:31
3	Ag 328.068†	101148.6	96876.5	491.40 ug/L	491.40 ppb	19:53:36
3	As 188.979†	892.2	877.6	474.62 ug/L	474.62 ppb	19:53:56
3	B 249.677†	17792.8	17336.0	474.31 ug/L	474.31 ppb	19:53:36
3	Ba 233.527†	53280.9	51145.5	480.67 ug/L	480.67 ppb	19:53:36
3	Be 313.107†	1229737.7	1185142.6	482.26 ug/L	482.26 ppb	19:53:31
3	Cd 226.502†	35513.2	34268.7	483.21 ug/L	483.21 ppb	19:53:36
3	Co 228.616†	19699.2	18955.5	493.42 ug/L	493.42 ppb	19:53:36
3	Cr 267.716†	38398.1	36777.6	479.82 ug/L	479.82 ppb	19:53:36
3	Cu 324.752†	160639.6	147904.6	479.57 ug/L	479.57 ppb	19:53:36
3	Mn 257.610†	376546.1	361133.4	474.11 ug/L	474.11 ppb	19:53:36
3	Mo 202.031†	5715.3	5474.1	481.71 ug/L	481.71 ppb	19:53:56
3	Ni 231.604†	16331.3	15588.8	486.46 ug/L	486.46 ppb	19:53:36
3	P 214.914†	3612.1	3300.4	2278.7 ug/L	2278.7 ppb	19:53:56
3	Pb 220.353†	3229.1	3159.6	477.72 ug/L	477.72 ppb	19:53:56
3	S 181.975 Axial†	592.1	544.2	952.93 ug/L	952.93 ppb	19:53:56
3	Sb 206.836†	1223.4	1148.2	505.09 ug/L	505.09 ppb	19:53:56
3	Se 196.026†	616.8	609.3	503.64 ug/L	503.64 ppb	19:53:56
3	Si 251.611†	68388.2	65145.6	2419.7 ug/L	2419.7 ppb	19:53:36
3	Sn 189.927†	2244.1	2151.9	477.20 ug/L	477.20 ppb	19:53:56
3	Ti 334.940†	289186.9	278780.8	479.50 ug/L	479.50 ppb	19:53:36
3	Tl 190.801†	1251.8	1227.2	477.65 ug/L	477.65 ppb	19:53:56
3	U 409.014†	15725.7	17136.1	502.58 ug/L	502.58 ppb	19:53:36
3	V 292.402†	63442.7	62349.6	487.10 ug/L	487.10 ppb	19:53:36
3	Zn 213.857†	42861.0	40551.7	477.25 ug/L	477.25 ppb	19:53:36
3	SiO2†	66739.5	63534.6	5063.0 ug/L	5063.0 ppb	19:54:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861564.5	102.58 %	1.875			1.83%
Sc Radial	4009.2	99.4 %	1.15			1.16%
Y 371.029	725296.2	101.29 %	1.770			1.75%
Y RADIAL	4450.7	98.51 %	0.540			0.55%
Ag 328.068†	97469.0	494.42 ug/L	9.312	494.42 ppb	9.312	1.88%
QC value within limits for Ag 328.068 Recovery = 98.88%						
Al 396.153Radial†	4630.5	4911.4 ug/L	52.96	4911.4 ppb	52.96	1.08%
QC value within limits for Al 396.153Radial Recovery = 98.23%						
As 188.979†	888.1	480.30 ug/L	9.603	480.30 ppb	9.603	2.00%
QC value within limits for As 188.979 Recovery = 96.06%						
B 249.677†	17369.4	475.20 ug/L	8.863	475.20 ppb	8.863	1.86%
QC value within limits for B 249.677 Recovery = 95.04%						
Ba 233.527†	51519.4	484.19 ug/L	8.792	484.19 ppb	8.792	1.82%
QC value within limits for Ba 233.527 Recovery = 96.84%						
Be 313.107†	1194858.4	486.21 ug/L	3.824	486.21 ppb	3.824	0.79%
QC value within limits for Be 313.107 Recovery = 97.24%						
Ca 317.933Radial†	2479.0	5036.6 ug/L	86.96	5036.6 ppb	86.96	1.73%

QC value within limits for Ca 317.933 Radial Recovery = 100.73%

Cd 226.502†	34514.9	486.68 ug/L	8.188	486.68 ppb	8.188	1.68%
QC value within limits for Cd 226.502 Recovery = 97.34%						
Co 228.616†	19079.9	496.67 ug/L	9.011	496.67 ppb	9.011	1.81%
QC value within limits for Co 228.616 Recovery = 99.33%						
Cr 267.716†	37061.5	483.53 ug/L	9.147	483.53 ppb	9.147	1.89%
QC value within limits for Cr 267.716 Recovery = 96.71%						
Cu 324.752†	148484.3	481.45 ug/L	9.413	481.45 ppb	9.413	1.96%
QC value within limits for Cu 324.752 Recovery = 96.29%						
Fe 238.204 Radial†	402.5	5048.3 ug/L	74.49	5048.3 ppb	74.49	1.48%
QC value within limits for Fe 238.204 Radial Recovery = 100.97%						
K 766.490 Radial†	24448.1	4874.4 ug/L	73.87	4874.4 ppb	73.87	1.52%
QC value within limits for K 766.490 Radial Recovery = 97.49%						
Mg 279.077 IEC†	118.4	5171.9 ug/L	93.32	5171.9 ppb	93.32	1.80%
QC value within limits for Mg 279.077 IEC Recovery = 103.44%						
Mn 257.610†	363849.2	477.67 ug/L	8.746	477.67 ppb	8.746	1.83%
QC value within limits for Mn 257.610 Recovery = 95.53%						
Mo 202.031†	5535.3	487.10 ug/L	8.330	487.10 ppb	8.330	1.71%
QC value within limits for Mo 202.031 Recovery = 97.42%						
Na 589.592 Radial†	24806.4	9741.8 ug/L	198.71	9741.8 ppb	198.71	2.04%
QC value within limits for Na 589.592 Radial Recovery = 97.42%						
Ni 231.604†	15727.3	490.78 ug/L	8.788	490.78 ppb	8.788	1.79%
QC value within limits for Ni 231.604 Recovery = 98.16%						
P 214.914†	3357.6	2319.4 ug/L	47.93	2319.4 ppb	47.93	2.07%
QC value within limits for P 214.914 Recovery = 92.78%						
Pb 220.353†	3200.9	483.96 ug/L	8.261	483.96 ppb	8.261	1.71%
QC value within limits for Pb 220.353 Recovery = 96.79%						
S 181.975 Axial†	556.7	974.89 ug/L	19.508	974.89 ppb	19.508	2.00%
QC value within limits for S 181.975 Axial Recovery = 97.49%						
Sb 206.836†	1164.2	512.12 ug/L	8.936	512.12 ppb	8.936	1.74%
QC value within limits for Sb 206.836 Recovery = 102.42%						
Se 196.026†	617.9	510.68 ug/L	9.404	510.68 ppb	9.404	1.84%
QC value within limits for Se 196.026 Recovery = 102.14%						
Si 251.611†	65641.7	2438.1 ug/L	47.17	2438.1 ppb	47.17	1.93%
QC value within limits for Si 251.611 Recovery = 97.52%						
Sn 189.927†	2188.3	485.27 ug/L	8.753	485.27 ppb	8.753	1.80%
QC value within limits for Sn 189.927 Recovery = 97.05%						
Sr 421.552†	56361.2	479.91 ug/L	6.984	479.91 ppb	6.984	1.46%
QC value within limits for Sr 421.552 Recovery = 95.98%						
Ti 334.940†	280310.5	482.13 ug/L	8.817	482.13 ppb	8.817	1.83%
QC value within limits for Ti 334.940 Recovery = 96.43%						
Tl 190.801†	1237.1	481.50 ug/L	8.761	481.50 ppb	8.761	1.82%
QC value within limits for Tl 190.801 Recovery = 96.30%						
U 409.014†	17116.0	501.97 ug/L	9.585	501.97 ppb	9.585	1.91%
QC value within limits for U 409.014 Recovery = 100.39%						
V 292.402†	62746.6	490.23 ug/L	7.875	490.23 ppb	7.875	1.61%
QC value within limits for V 292.402 Recovery = 98.05%						
Zn 213.857†	40845.5	480.70 ug/L	9.170	480.70 ppb	9.170	1.91%
QC value within limits for Zn 213.857 Recovery = 96.14%						
SiO2†	65314.2	5205.0 ug/L	133.85	5205.0 ppb	133.85	2.57%
QC value within limits for SiO2 Recovery = 97.34%						

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/25/2010 19:56:23

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	4091.8	4091.8	101 %		19:58:34
1	Y RADIAL	4577.8	4577.8	101.3 %		19:58:14
1	Al 396.153Radial†	-71.0	9.7	10.302 ug/L	10.302 ppb	19:58:34
1	Ca 317.933Radial†	20.3	2.8	5.7128 ug/L	5.7128 ppb	19:58:34
1	Fe 238.204 Radial†	11.0	1.9	23.297 ug/L	23.297 ppb	19:58:34
1	K 766.490 Radial†	2668.8	-172.2	-34.393 ug/L	-34.393 ppb	19:58:14
1	Mg 279.077 IEC†	1.7	1.0	43.792 ug/L	43.792 ppb	19:58:34
1	Na 589.592 Radial†	-403.4	63.2	24.811 ug/L	24.811 ppb	19:58:14
1	Sr 421.552†	21.1	-49.2	-0.4193 ug/L	-0.4193 ppb	19:58:14
1	Sc 361.383	834549.8	834549.8	99.368 %		19:59:31
1	Y 371.029	713360.1	713360.1	99.621 %		19:59:31
1	Ag 328.068†	250.8	-1.0	0.0007 ug/L	0.0007 ppb	19:59:31
1	As 188.979†	-21.1	-0.4	-0.2174 ug/L	-0.2174 ppb	19:59:51
1	B 249.677†	-193.9	55.1	1.5096 ug/L	1.5096 ppb	19:59:51
1	Ba 233.527†	21.1	2.7	0.0290 ug/L	0.0290 ppb	19:59:51
1	Be 313.107†	-4214.5	21.4	0.0114 ug/L	0.0114 ppb	19:59:31
1	Cd 226.502†	-166.1	-0.7	-0.0110 ug/L	-0.0110 ppb	19:59:51
1	Co 228.616†	-41.9	-3.2	-0.0872 ug/L	-0.0872 ppb	19:59:51
1	Cr 267.716†	96.9	2.5	0.0338 ug/L	0.0338 ppb	19:59:51
1	Cu 324.752†	6622.3	311.7	1.0075 ug/L	1.0075 ppb	19:59:31
1	Mn 257.610†	1022.0	576.1	0.7563 ug/L	0.7563 ppb	19:59:51
1	Mo 202.031†	14.8	0.7	0.0651 ug/L	0.0651 ppb	19:59:51
1	Ni 231.604†	90.9	-2.1	-0.0666 ug/L	-0.0666 ppb	19:59:51
1	P 214.914†	186.8	19.8	14.012 ug/L	14.012 ppb	19:59:51
1	Pb 220.353†	-38.3	20.3	3.0545 ug/L	3.0545 ppb	19:59:51
1	S 181.975 Axial†	27.5	3.3	5.7903 ug/L	5.7903 ppb	19:59:51
1	Sb 206.836†	30.5	4.1	1.7362 ug/L	1.7362 ppb	19:59:51
1	Se 196.026†	-22.1	-5.3	-4.1589 ug/L	-4.1589 ppb	19:59:51
1	Si 251.611†	723.7	202.8	7.5517 ug/L	7.5517 ppb	19:59:51
1	Sn 189.927†	2.2	-0.9	-0.2040 ug/L	-0.2040 ppb	19:59:51
1	Ti 334.940†	-397.0	683.8	1.1702 ug/L	1.1702 ppb	19:59:31
1	Tl 190.801†	-31.8	-6.9	-2.6547 ug/L	-2.6547 ppb	19:59:51
1	U 409.014†	-1758.9	265.1	7.7985 ug/L	7.7985 ppb	19:59:31
1	V 292.402†	-1267.0	152.5	1.1876 ug/L	1.1876 ppb	19:59:31
1	Zn 213.857†	707.2	105.2	1.2457 ug/L	1.2457 ppb	19:59:51
1	SiO2†	680.4	131.4	10.496 ug/L	10.496 ppb	20:00:47
2	Sc Radial	4062.2	4062.2	101 %		19:59:00
2	Y RADIAL	4477.9	4477.9	99.11 %		19:58:39
2	Al 396.153Radial†	-71.8	8.3	8.8691 ug/L	8.8691 ppb	19:59:00
2	Ca 317.933Radial†	21.6	4.2	8.6013 ug/L	8.6013 ppb	19:59:00
2	Fe 238.204 Radial†	13.6	4.5	56.286 ug/L	56.286 ppb	19:59:00
2	K 766.490 Radial†	2711.9	-110.3	-22.033 ug/L	-22.033 ppb	19:58:39
2	Mg 279.077 IEC†	-0.1	-0.9	-37.269 ug/L	-37.269 ppb	19:59:00
2	Na 589.592 Radial†	-400.3	63.4	24.880 ug/L	24.880 ppb	19:58:39
2	Sr 421.552†	30.0	-40.2	-0.3425 ug/L	-0.3425 ppb	19:58:39
2	Sc 361.383	828972.9	828972.9	98.704 %		19:59:57
2	Y 371.029	706404.9	706404.9	98.650 %		19:59:57
2	Ag 328.068†	140.0	-111.5	-0.5463 ug/L	-0.5463 ppb	19:59:57
2	As 188.979†	-20.5	0.1	0.0414 ug/L	0.0414 ppb	20:00:17
2	B 249.677†	-189.1	58.6	1.6004 ug/L	1.6004 ppb	20:00:17
2	Ba 233.527†	45.7	27.7	0.2614 ug/L	0.2614 ppb	20:00:17
2	Be 313.107†	-4458.5	-254.3	-0.1031 ug/L	-0.1031 ppb	19:59:57
2	Cd 226.502†	-169.2	-5.0	-0.0764 ug/L	-0.0764 ppb	20:00:17
2	Co 228.616†	-30.4	8.1	0.2093 ug/L	0.2093 ppb	20:00:17
2	Cr 267.716†	103.5	9.9	0.1344 ug/L	0.1344 ppb	20:00:17
2	Cu 324.752†	6533.4	266.4	0.8664 ug/L	0.8664 ppb	19:59:57
2	Mn 257.610†	1136.5	699.0	0.9242 ug/L	0.9242 ppb	20:00:17
2	Mo 202.031†	12.0	-2.0	-0.1749 ug/L	-0.1749 ppb	20:00:17
2	Ni 231.604†	82.5	-10.0	-0.3131 ug/L	-0.3131 ppb	20:00:17

2	P 214.914†	192.0	26.3	18.675 ug/L	18.675 ppb	20:00:17
2	Pb 220.353†	-48.5	9.7	1.4572 ug/L	1.4572 ppb	20:00:17
2	S 181.975 Axial†	33.7	9.8	17.117 ug/L	17.117 ppb	20:00:17
2	Sb 206.836†	31.4	5.2	2.1781 ug/L	2.1781 ppb	20:00:17
2	Se 196.026†	-14.3	2.5	2.1601 ug/L	2.1601 ppb	20:00:17
2	Si 251.611†	650.4	133.5	4.9716 ug/L	4.9716 ppb	20:00:17
2	Sn 189.927†	1.5	-1.6	-0.3512 ug/L	-0.3512 ppb	20:00:17
2	Ti 334.940†	-1023.9	46.0	0.0830 ug/L	0.0830 ppb	19:59:57
2	Tl 190.801†	-21.7	3.1	1.2143 ug/L	1.2143 ppb	20:00:17
2	U 409.014†	-1982.6	26.6	0.7746 ug/L	0.7746 ppb	19:59:57
2	V 292.402†	-1430.1	-21.3	-0.1743 ug/L	-0.1743 ppb	19:59:57
2	Zn 213.857†	725.9	129.0	1.5249 ug/L	1.5249 ppb	20:00:17
2	SiO2†	623.4	78.2	6.2515 ug/L	6.2515 ppb	20:00:52
3	Sc Radial	4097.8	4097.8	102 %		19:59:25
3	Y RADIAL	4527.6	4527.6	100.2 %		19:59:05
3	Al 396.153Radial†	-65.9	14.8	15.802 ug/L	15.802 ppb	19:59:25
3	Ca 317.933Radial†	23.8	6.2	12.696 ug/L	12.696 ppb	19:59:25
3	Fe 238.204 Radial†	14.1	4.9	60.903 ug/L	60.903 ppb	19:59:25
3	K 766.490 Radial†	2574.6	-268.8	-53.670 ug/L	-53.670 ppb	19:59:05
3	Mg 279.077 IEC†	2.5	1.7	75.487 ug/L	75.487 ppb	19:59:25
3	Na 589.592 Radial†	-477.4	-9.1	-3.5631 ug/L	-3.5631 ppb	19:59:05
3	Sr 421.552†	42.6	-28.1	-0.2394 ug/L	-0.2394 ppb	19:59:05
3	Sc 361.383	837975.3	837975.3	99.776 %		20:00:22
3	Y 371.029	714194.2	714194.2	99.737 %		20:00:22
3	Ag 328.068†	203.3	-49.6	-0.2327 ug/L	-0.2327 ppb	20:00:22
3	As 188.979†	-25.0	-4.3	-2.2716 ug/L	-2.2716 ppb	20:00:42
3	B 249.677†	-198.8	50.9	1.3908 ug/L	1.3908 ppb	20:00:42
3	Ba 233.527†	43.0	24.5	0.2341 ug/L	0.2341 ppb	20:00:42
3	Be 313.107†	-4359.0	-106.1	-0.0423 ug/L	-0.0423 ppb	20:00:22
3	Cd 226.502†	-171.0	-5.0	-0.0759 ug/L	-0.0759 ppb	20:00:42
3	Co 228.616†	-44.9	-6.0	-0.1592 ug/L	-0.1592 ppb	20:00:42
3	Cr 267.716†	113.4	18.7	0.2481 ug/L	0.2481 ppb	20:00:42
3	Cu 324.752†	6726.4	388.7	1.2601 ug/L	1.2601 ppb	20:00:22
3	Mn 257.610†	1113.1	663.2	0.8731 ug/L	0.8731 ppb	20:00:42
3	Mo 202.031†	11.8	-2.3	-0.1987 ug/L	-0.1987 ppb	20:00:42
3	Ni 231.604†	95.4	2.0	0.0641 ug/L	0.0641 ppb	20:00:42
3	P 214.914†	189.6	21.8	15.395 ug/L	15.395 ppb	20:00:42
3	Pb 220.353†	-59.6	-0.9	-0.1458 ug/L	-0.1458 ppb	20:00:42
3	S 181.975 Axial†	29.1	4.8	8.3970 ug/L	8.3970 ppb	20:00:42
3	Sb 206.836†	35.8	9.3	3.9435 ug/L	3.9435 ppb	20:00:42
3	Se 196.026†	-14.6	2.4	2.0652 ug/L	2.0652 ppb	20:00:42
3	Si 251.611†	645.6	121.6	4.5294 ug/L	4.5294 ppb	20:00:42
3	Sn 189.927†	3.5	0.4	0.0844 ug/L	0.0844 ppb	20:00:42
3	Ti 334.940†	-889.5	191.8	0.3227 ug/L	0.3227 ppb	20:00:22
3	Tl 190.801†	-22.0	3.0	1.1720 ug/L	1.1720 ppb	20:00:42
3	U 409.014†	-1817.0	214.1	6.2915 ug/L	6.2915 ppb	20:00:22
3	V 292.402†	-1301.5	123.1	0.9506 ug/L	0.9506 ppb	20:00:22
3	Zn 213.857†	724.0	119.1	1.4042 ug/L	1.4042 ppb	20:00:42
3	SiO2†	682.7	130.9	10.461 ug/L	10.461 ppb	20:00:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833832.7	99.283 %		0.5410			0.54%
Sc Radial	4083.9	101 %		0.5			0.47%
Y 371.029	711319.7	99.336 %		0.5973			0.60%
Y RADIAL	4527.7	100.2 %		1.11			1.10%
Ag 328.068†	-54.0	-0.2595 ug/L		0.27445	-0.2595 ppb	0.27445	105.78%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	10.9	11.658 ug/L		3.6602	11.658 ppb	3.6602	31.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.6	-0.8159 ug/L		1.26735	-0.8159 ppb	1.26735	155.34%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	54.9	1.5003 ug/L		0.10513	1.5003 ppb	0.10513	7.01%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	18.3	0.1748 ug/L		0.12702	0.1748 ppb	0.12702	72.66%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-113.0	-0.0447 ug/L		0.05725	-0.0447 ppb	0.05725	128.16%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.4	9.0035 ug/L		3.50915	9.0035 ppb	3.50915	38.98%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-3.6	-0.0545 ug/L	0.03761	-0.0545 ppb	0.03761	69.07%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.4	-0.0124 ug/L	0.19531	-0.0124 ppb	0.19531	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	10.4	0.1388 ug/L	0.10725	0.1388 ppb	0.10725	77.29%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	322.3	1.0447 ug/L	0.19948	1.0447 ppb	0.19948	19.09%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	3.7	46.829 ug/L	20.5097	46.829 ppb	20.5097	43.80%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-183.8	-36.699 ug/L	15.9437	-36.699 ppb	15.9437	43.44%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.6	27.337 ug/L	58.1515	27.337 ppb	58.1515	212.72%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	646.1	0.8512 ug/L	0.08607	0.8512 ppb	0.08607	10.11%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.2	-0.1028 ug/L	0.14590	-0.1028 ppb	0.14590	141.88%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	39.2	15.376 ug/L	16.4019	15.376 ppb	16.4019	106.67%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-3.4	-0.1052 ug/L	0.19153	-0.1052 ppb	0.19153	182.04%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	22.6	16.027 ug/L	2.3951	16.027 ppb	2.3951	14.94%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	9.7	1.4553 ug/L	1.60012	1.4553 ppb	1.60012	109.95%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	6.0	10.435 ug/L	5.9322	10.435 ppb	5.9322	56.85%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	6.2	2.6193 ug/L	1.16788	2.6193 ppb	1.16788	44.59%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-0.2	0.0222 ug/L	3.62118	0.0222 ppb	3.62118	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	152.6	5.6842 ug/L	1.63230	5.6842 ppb	1.63230	28.72%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.7	-0.1569 ug/L	0.22159	-0.1569 ppb	0.22159	141.21%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-39.2	-0.3338 ug/L	0.09027	-0.3338 ppb	0.09027	27.05%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	307.2	0.5253 ug/L	0.57122	0.5253 ppb	0.57122	108.74%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.3	-0.0894 ug/L	2.22166	-0.0894 ppb	2.22166	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	168.6	4.9549 ug/L	3.69780	4.9549 ppb	3.69780	74.63%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	84.8	0.6546 ug/L	0.72758	0.6546 ppb	0.72758	111.15%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	117.8	1.3916 ug/L	0.14005	1.3916 ppb	0.14005	10.06%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	113.5	9.0696 ug/L	2.44054	9.0696 ppb	2.44054	26.91%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 37

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/25/2010 20:45:36

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	4010.1	4010.1	99.4 %		20:47:48
1	Y RADIAL	4487.8	4487.8	99.33 %		20:47:28
1	Al 396.153Radial†	4512.8	4619.2	4898.6 ug/L	4898.6 ppb	20:47:28
1	Ca 317.933Radial†	2447.7	2445.0	4967.7 ug/L	4967.7 ppb	20:47:48
1	Fe 238.204 Radial†	416.3	409.8	5139.8 ug/L	5139.8 ppb	20:47:48
1	K 766.490 Radial†	27183.1	24541.1	4892.7 ug/L	4892.7 ppb	20:47:28
1	Mg 279.077 IEC†	114.7	114.6	5008.1 ug/L	5008.1 ppb	20:47:48
1	Na 589.592 Radial†	25889.2	26503.6	10408 ug/L	10408 ppb	20:47:28
1	Sr 421.552†	57966.3	58240.1	495.91 ug/L	495.91 ppb	20:47:28
1	Sc 361.383	832477.2	832477.2	99.121 %		20:48:45
1	Y 371.029	700928.7	700928.7	97.885 %		20:48:45
1	Ag 328.068†	99965.3	100597.9	510.27 ug/L	510.27 ppb	20:48:50
1	As 188.979†	881.0	909.7	491.97 ug/L	491.97 ppb	20:49:10
1	B 249.677†	17314.9	17718.5	484.75 ug/L	484.75 ppb	20:48:50
1	Ba 233.527†	52494.2	52940.9	497.55 ug/L	497.55 ppb	20:48:50
1	Be 313.107†	1195358.7	1210215.9	492.48 ug/L	492.48 ppb	20:48:45
1	Cd 226.502†	34924.6	35400.6	499.17 ug/L	499.17 ppb	20:48:50
1	Co 228.616†	19337.1	19547.4	508.84 ug/L	508.84 ppb	20:48:50
1	Cr 267.716†	37851.9	38092.5	496.97 ug/L	496.97 ppb	20:48:50
1	Cu 324.752†	158325.1	153375.6	497.31 ug/L	497.31 ppb	20:48:50
1	Mn 257.610†	371424.8	374264.3	491.36 ug/L	491.36 ppb	20:48:50
1	Mo 202.031†	5673.8	5709.9	502.46 ug/L	502.46 ppb	20:49:10
1	Ni 231.604†	16101.4	16150.5	503.99 ug/L	503.99 ppb	20:48:50
1	P 214.914†	3591.2	3454.8	2386.2 ug/L	2386.2 ppb	20:49:10
1	Pb 220.353†	3179.1	3266.1	493.80 ug/L	493.80 ppb	20:49:10
1	S 181.975 Axial†	599.5	580.4	1016.4 ug/L	1016.4 ppb	20:49:10
1	Sb 206.836†	1219.0	1203.1	529.23 ug/L	529.23 ppb	20:49:10
1	Se 196.026†	603.0	625.3	516.90 ug/L	516.90 ppb	20:49:10
1	Si 251.611†	67462.2	67534.7	2508.3 ug/L	2508.3 ppb	20:48:50
1	Sn 189.927†	2242.2	2259.0	500.90 ug/L	500.90 ppb	20:49:10
1	Ti 334.940†	285270.9	288882.6	496.87 ug/L	496.87 ppb	20:48:50
1	Tl 190.801†	1227.2	1263.2	491.70 ug/L	491.70 ppb	20:49:10
1	U 409.014†	15597.1	17770.5	521.19 ug/L	521.19 ppb	20:48:50
1	V 292.402†	62535.4	64517.2	504.09 ug/L	504.09 ppb	20:48:50
1	Zn 213.857†	42211.6	41979.3	494.06 ug/L	494.06 ppb	20:48:50
1	SiO2†	67748.2	67795.3	5402.8 ug/L	5402.8 ppb	20:50:17
2	Sc Radial	4065.5	4065.5	101 %		20:48:13
2	Y RADIAL	4426.7	4426.7	97.98 %		20:47:53
2	Al 396.153Radial†	4476.6	4521.4	4794.9 ug/L	4794.9 ppb	20:47:53
2	Ca 317.933Radial†	2496.4	2459.7	4997.6 ug/L	4997.6 ppb	20:48:13
2	Fe 238.204 Radial†	421.1	408.8	5127.6 ug/L	5127.6 ppb	20:48:13
2	K 766.490 Radial†	26736.2	23724.5	4729.8 ug/L	4729.8 ppb	20:47:53
2	Mg 279.077 IEC†	119.3	117.6	5138.1 ug/L	5138.1 ppb	20:48:13
2	Na 589.592 Radial†	25166.4	25431.1	9987.2 ug/L	9987.2 ppb	20:47:53
2	Sr 421.552†	56760.1	56247.5	478.94 ug/L	478.94 ppb	20:47:53
2	Sc 361.383	844704.9	844704.9	100.58 %		20:49:16
2	Y 371.029	711741.2	711741.2	99.395 %		20:49:16
2	Ag 328.068†	101128.4	100294.4	508.73 ug/L	508.73 ppb	20:49:21
2	As 188.979†	885.3	901.0	487.35 ug/L	487.35 ppb	20:49:41
2	B 249.677†	17519.3	17668.9	483.39 ug/L	483.39 ppb	20:49:21
2	Ba 233.527†	53009.8	52687.0	495.16 ug/L	495.16 ppb	20:49:21
2	Be 313.107†	1210831.6	1208142.8	491.63 ug/L	491.63 ppb	20:49:16
2	Cd 226.502†	35263.3	35227.3	496.73 ug/L	496.73 ppb	20:49:21
2	Co 228.616†	19557.4	19484.0	507.16 ug/L	507.16 ppb	20:49:21
2	Cr 267.716†	38253.5	37939.0	494.97 ug/L	494.97 ppb	20:49:21
2	Cu 324.752†	160421.1	153147.4	496.57 ug/L	496.57 ppb	20:49:21
2	Mn 257.610†	375433.6	372825.8	489.46 ug/L	489.46 ppb	20:49:21
2	Mo 202.031†	5629.7	5583.2	491.31 ug/L	491.31 ppb	20:49:41
2	Ni 231.604†	16279.1	16092.0	502.17 ug/L	502.17 ppb	20:49:21

2	P 214.914†	3566.6	3377.9	2331.0 ug/L	2331.0 ppb	20:49:41
2	Pb 220.353†	3172.2	3212.8	485.72 ug/L	485.72 ppb	20:49:41
2	S 181.975 Axial†	585.8	558.1	977.30 ug/L	977.30 ppb	20:49:41
2	Sb 206.836†	1204.0	1170.4	514.95 ug/L	514.95 ppb	20:49:41
2	Se 196.026†	608.1	621.6	513.84 ug/L	513.84 ppb	20:49:41
2	Si 251.611†	68067.3	67151.1	2494.2 ug/L	2494.2 ppb	20:49:21
2	Sn 189.927†	2227.8	2212.0	490.50 ug/L	490.50 ppb	20:49:41
2	Ti 334.940†	288842.7	288267.8	495.81 ug/L	495.81 ppb	20:49:21
2	Tl 190.801†	1234.8	1252.8	487.67 ug/L	487.67 ppb	20:49:41
2	U 409.014†	15757.0	17701.7	519.18 ug/L	519.18 ppb	20:49:21
2	V 292.402†	63402.4	64465.9	503.54 ug/L	503.54 ppb	20:49:21
2	Zn 213.857†	42667.7	41816.3	492.13 ug/L	492.13 ppb	20:49:21
2	SiO2†	67622.6	66681.0	5314.1 ug/L	5314.1 ppb	20:50:22
3	Sc Radial	4048.9	4048.9	100 %		20:48:38
3	Y RADIAL	4473.2	4473.2	99.01 %		20:48:18
3	Al 396.153Radial†	4557.4	4620.1	4899.9 ug/L	4899.9 ppb	20:48:18
3	Ca 317.933Radial†	2479.8	2453.4	4984.6 ug/L	4984.6 ppb	20:48:38
3	Fe 238.204 Radial†	417.1	406.6	5099.1 ug/L	5099.1 ppb	20:48:38
3	K 766.490 Radial†	27241.0	24336.5	4851.9 ug/L	4851.9 ppb	20:48:18
3	Mg 279.077 IEC†	116.1	115.0	5021.8 ug/L	5021.8 ppb	20:48:38
3	Na 589.592 Radial†	25608.5	25974.2	10200 ug/L	10200 ppb	20:48:18
3	Sr 421.552†	57925.0	57639.6	490.80 ug/L	490.80 ppb	20:48:18
3	Sc 361.383	843560.3	843560.3	100.44 %		20:49:47
3	Y 371.029	711600.2	711600.2	99.375 %		20:49:47
3	Ag 328.068†	100796.4	100100.3	507.74 ug/L	507.74 ppb	20:49:52
3	As 188.979†	895.1	912.0	493.23 ug/L	493.23 ppb	20:50:12
3	B 249.677†	17491.2	17664.5	483.28 ug/L	483.28 ppb	20:49:52
3	Ba 233.527†	52994.8	52743.5	495.69 ug/L	495.69 ppb	20:49:52
3	Be 313.107†	1210168.3	1209115.9	492.03 ug/L	492.03 ppb	20:49:47
3	Cd 226.502†	35149.6	35161.6	495.81 ug/L	495.81 ppb	20:49:52
3	Co 228.616†	19464.1	19417.6	505.44 ug/L	505.44 ppb	20:49:52
3	Cr 267.716†	38185.0	37922.3	494.75 ug/L	494.75 ppb	20:49:52
3	Cu 324.752†	160430.8	153373.4	497.30 ug/L	497.30 ppb	20:49:52
3	Mn 257.610†	374384.7	372288.0	488.76 ug/L	488.76 ppb	20:49:52
3	Mo 202.031†	5668.6	5629.5	495.38 ug/L	495.38 ppb	20:50:12
3	Ni 231.604†	16217.7	16052.8	500.95 ug/L	500.95 ppb	20:49:52
3	P 214.914†	3586.1	3402.1	2348.3 ug/L	2348.3 ppb	20:50:12
3	Pb 220.353†	3198.1	3242.8	490.28 ug/L	490.28 ppb	20:50:12
3	S 181.975 Axial†	587.0	560.1	980.77 ug/L	980.77 ppb	20:50:12
3	Sb 206.836†	1235.3	1203.3	529.05 ug/L	529.05 ppb	20:50:12
3	Se 196.026†	613.7	628.0	518.91 ug/L	518.91 ppb	20:50:12
3	Si 251.611†	67976.6	67152.6	2494.2 ug/L	2494.2 ppb	20:49:52
3	Sn 189.927†	2245.6	2232.7	495.09 ug/L	495.09 ppb	20:50:12
3	Ti 334.940†	288610.8	288426.6	496.09 ug/L	496.09 ppb	20:49:52
3	Tl 190.801†	1239.8	1259.4	490.24 ug/L	490.24 ppb	20:50:12
3	U 409.014†	15663.6	17630.0	517.07 ug/L	517.07 ppb	20:49:52
3	V 292.402†	63203.2	64353.1	502.73 ug/L	502.73 ppb	20:49:52
3	Zn 213.857†	42597.2	41803.7	491.99 ug/L	491.99 ppb	20:49:52
3	SiO2†	67584.4	66734.2	5318.3 ug/L	5318.3 ppb	20:50:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840247.5	100.05 %	0.804			0.80%
Sc Radial	4041.5	100 %	0.7			0.70%
Y 371.029	708090.1	98.885 %	0.8662			0.88%
Y RADIAL	4462.6	98.77 %	0.705			0.71%
Ag 328.068†	100330.8	508.91 ug/L	1.271	508.91 ppb	1.271	0.25%
QC value within limits for Ag 328.068 Recovery = 101.78%						
Al 396.153Radial†	4586.9	4864.5 ug/L	60.26	4864.5 ppb	60.26	1.24%
QC value within limits for Al 396.153Radial Recovery = 97.29%						
As 188.979†	907.6	490.85 ug/L	3.099	490.85 ppb	3.099	0.63%
QC value within limits for As 188.979 Recovery = 98.17%						
B 249.677†	17684.0	483.81 ug/L	0.818	483.81 ppb	0.818	0.17%
QC value within limits for B 249.677 Recovery = 96.76%						
Ba 233.527†	52790.5	496.13 ug/L	1.251	496.13 ppb	1.251	0.25%
QC value within limits for Ba 233.527 Recovery = 99.23%						
Be 313.107†	1209158.2	492.05 ug/L	0.422	492.05 ppb	0.422	0.09%
QC value within limits for Be 313.107 Recovery = 98.41%						
Ca 317.933Radial†	2452.7	4983.3 ug/L	15.00	4983.3 ppb	15.00	0.30%

QC value within limits for Ca 317.933 Radial Recovery = 99.67%

Cd 226.502†	35263.1	497.24 ug/L	1.741	497.24 ppb	1.741	0.35%
QC value within limits for Cd 226.502 Recovery = 99.45%						
Co 228.616†	19483.0	507.15 ug/L	1.697	507.15 ppb	1.697	0.33%
QC value within limits for Co 228.616 Recovery = 101.43%						
Cr 267.716†	37984.6	495.57 ug/L	1.223	495.57 ppb	1.223	0.25%
QC value within limits for Cr 267.716 Recovery = 99.11%						
Cu 324.752†	153298.8	497.06 ug/L	0.425	497.06 ppb	0.425	0.09%
QC value within limits for Cu 324.752 Recovery = 99.41%						
Fe 238.204 Radial†	408.4	5122.2 ug/L	20.89	5122.2 ppb	20.89	0.41%
QC value within limits for Fe 238.204 Radial Recovery = 102.44%						
K 766.490 Radial†	24200.7	4824.8 ug/L	84.74	4824.8 ppb	84.74	1.76%
QC value within limits for K 766.490 Radial Recovery = 96.50%						
Mg 279.077 IEC†	115.7	5056.0 ug/L	71.43	5056.0 ppb	71.43	1.41%
QC value within limits for Mg 279.077 IEC Recovery = 101.12%						
Mn 257.610†	373126.0	489.86 ug/L	1.343	489.86 ppb	1.343	0.27%
QC value within limits for Mn 257.610 Recovery = 97.97%						
Mo 202.031†	5640.9	496.38 ug/L	5.638	496.38 ppb	5.638	1.14%
QC value within limits for Mo 202.031 Recovery = 99.28%						
Na 589.592 Radial†	25969.6	10199 ug/L	210.6	10199 ppb	210.6	2.06%
QC value within limits for Na 589.592 Radial Recovery = 101.99%						
Ni 231.604†	16098.5	502.37 ug/L	1.534	502.37 ppb	1.534	0.31%
QC value within limits for Ni 231.604 Recovery = 100.47%						
P 214.914†	3411.6	2355.2 ug/L	28.23	2355.2 ppb	28.23	1.20%
QC value within limits for P 214.914 Recovery = 94.21%						
Pb 220.353†	3240.6	489.93 ug/L	4.049	489.93 ppb	4.049	0.83%
QC value within limits for Pb 220.353 Recovery = 97.99%						
S 181.975 Axial†	566.2	991.48 ug/L	21.630	991.48 ppb	21.630	2.18%
QC value within limits for S 181.975 Axial Recovery = 99.15%						
Sb 206.836†	1192.3	524.41 ug/L	8.190	524.41 ppb	8.190	1.56%
QC value within limits for Sb 206.836 Recovery = 104.88%						
Se 196.026†	624.9	516.55 ug/L	2.549	516.55 ppb	2.549	0.49%
QC value within limits for Se 196.026 Recovery = 103.31%						
Si 251.611†	67279.5	2498.9 ug/L	8.17	2498.9 ppb	8.17	0.33%
QC value within limits for Si 251.611 Recovery = 99.96%						
Sn 189.927†	2234.5	495.50 ug/L	5.212	495.50 ppb	5.212	1.05%
QC value within limits for Sn 189.927 Recovery = 99.10%						
Sr 421.552†	57375.7	488.55 ug/L	8.704	488.55 ppb	8.704	1.78%
QC value within limits for Sr 421.552 Recovery = 97.71%						
Ti 334.940†	288525.7	496.26 ug/L	0.551	496.26 ppb	0.551	0.11%
QC value within limits for Ti 334.940 Recovery = 99.25%						
Tl 190.801†	1258.4	489.87 ug/L	2.039	489.87 ppb	2.039	0.42%
QC value within limits for Tl 190.801 Recovery = 97.97%						
U 409.014†	17700.8	519.15 ug/L	2.062	519.15 ppb	2.062	0.40%
QC value within limits for U 409.014 Recovery = 103.83%						
V 292.402†	64445.4	503.45 ug/L	0.687	503.45 ppb	0.687	0.14%
QC value within limits for V 292.402 Recovery = 100.69%						
Zn 213.857†	41866.4	492.73 ug/L	1.152	492.73 ppb	1.152	0.23%
QC value within limits for Zn 213.857 Recovery = 98.55%						
SiO2†	67070.2	5345.1 ug/L	50.07	5345.1 ppb	50.07	0.94%
QC value within limits for SiO2 Recovery = 99.95%						

All analyte(s) passed QC.

Sequence No.: 38
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/25/2010 20:52:37
 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	4125.2	4125.2	102 %		20:54:49
1	Y RADIAL	4509.6	4509.6	99.81 %		20:54:29
1	Al 396.153Radial†	-64.8	16.3	17.399 ug/L	17.399 ppb	20:54:49
1	Ca 317.933Radial†	23.2	5.5	11.103 ug/L	11.103 ppb	20:54:49
1	Fe 238.204 Radial†	14.8	5.5	68.189 ug/L	68.189 ppb	20:54:49
1	K 766.490 Radial†	2598.0	-262.8	-52.475 ug/L	-52.475 ppb	20:54:29
1	Mg 279.077 IEC†	2.6	1.9	81.001 ug/L	81.001 ppb	20:54:49
1	Na 589.592 Radial†	-381.4	87.9	34.527 ug/L	34.527 ppb	20:54:29
1	Sr 421.552†	63.0	-8.4	-0.0715 ug/L	-0.0715 ppb	20:54:29
1	Sc 361.383	826959.5	826959.5	98.465 %		20:55:46
1	Y 371.029	707842.6	707842.6	98.850 %		20:55:46
1	Ag 328.068†	170.5	-80.2	-0.3864 ug/L	-0.3864 ppb	20:55:46
1	As 188.979†	-21.2	-0.7	-0.3507 ug/L	-0.3507 ppb	20:56:06
1	B 249.677†	-280.9	-35.1	-0.9765 ug/L	-0.9765 ppb	20:56:06
1	Ba 233.527†	33.5	15.5	0.1489 ug/L	0.1489 ppb	20:56:06
1	Be 313.107†	-4365.6	-171.0	-0.0686 ug/L	-0.0686 ppb	20:55:46
1	Cd 226.502†	-154.6	9.4	0.1269 ug/L	0.1269 ppb	20:56:06
1	Co 228.616†	-42.3	-4.0	-0.1073 ug/L	-0.1073 ppb	20:56:06
1	Cr 267.716†	85.5	-8.1	-0.1002 ug/L	-0.1002 ppb	20:56:06
1	Cu 324.752†	6511.2	260.0	0.8432 ug/L	0.8432 ppb	20:55:46
1	Mn 257.610†	960.3	522.8	0.6894 ug/L	0.6894 ppb	20:56:06
1	Mo 202.031†	10.7	-3.3	-0.2842 ug/L	-0.2842 ppb	20:56:06
1	Ni 231.604†	70.2	-22.3	-0.6961 ug/L	-0.6961 ppb	20:56:06
1	P 214.914†	189.3	24.1	17.102 ug/L	17.102 ppb	20:56:06
1	Pb 220.353†	-52.9	5.1	0.7661 ug/L	0.7661 ppb	20:56:06
1	S 181.975 Axial†	33.2	9.3	16.296 ug/L	16.296 ppb	20:56:06
1	Sb 206.836†	29.0	2.9	1.2254 ug/L	1.2254 ppb	20:56:06
1	Se 196.026†	-24.4	-7.9	-6.0541 ug/L	-6.0541 ppb	20:56:06
1	Si 251.611†	578.7	62.3	2.3238 ug/L	2.3238 ppb	20:56:06
1	Sn 189.927†	7.0	4.0	0.8797 ug/L	0.8797 ppb	20:56:06
1	Ti 334.940†	-863.1	206.8	0.3480 ug/L	0.3480 ppb	20:55:46
1	Tl 190.801†	-31.1	-6.6	-2.5273 ug/L	-2.5273 ppb	20:56:06
1	U 409.014†	-1793.9	213.3	6.2681 ug/L	6.2681 ppb	20:55:46
1	V 292.402†	-1339.5	67.2	0.5172 ug/L	0.5172 ppb	20:55:46
1	Zn 213.857†	692.7	97.0	1.1458 ug/L	1.1458 ppb	20:56:06
1	SiO2†	626.8	83.2	6.6557 ug/L	6.6557 ppb	20:57:02
2	Sc Radial	4088.2	4088.2	101 %		20:55:14
2	Y RADIAL	4505.1	4505.1	99.71 %		20:54:54
2	Al 396.153Radial†	-70.5	10.1	10.732 ug/L	10.732 ppb	20:55:14
2	Ca 317.933Radial†	27.0	9.5	19.213 ug/L	19.213 ppb	20:55:14
2	Fe 238.204 Radial†	13.3	4.1	51.833 ug/L	51.833 ppb	20:55:14
2	K 766.490 Radial†	2526.6	-310.3	-61.954 ug/L	-61.954 ppb	20:54:54
2	Mg 279.077 IEC†	2.6	1.8	79.087 ug/L	79.087 ppb	20:55:14
2	Na 589.592 Radial†	-430.2	36.4	14.277 ug/L	14.277 ppb	20:54:54
2	Sr 421.552†	46.8	-23.8	-0.2032 ug/L	-0.2032 ppb	20:54:54
2	Sc 361.383	845279.5	845279.5	100.65 %		20:56:11
2	Y 371.029	725296.7	725296.7	101.29 %		20:56:11
2	Ag 328.068†	221.8	-33.0	-0.1516 ug/L	-0.1516 ppb	20:56:11
2	As 188.979†	-29.3	-8.3	-4.4179 ug/L	-4.4179 ppb	20:56:31
2	B 249.677†	-285.1	-33.1	-0.9182 ug/L	-0.9182 ppb	20:56:31
2	Ba 233.527†	26.8	8.1	0.0789 ug/L	0.0789 ppb	20:56:31
2	Be 313.107†	-4528.8	-237.0	-0.0959 ug/L	-0.0959 ppb	20:56:11
2	Cd 226.502†	-166.9	0.5	0.0025 ug/L	0.0025 ppb	20:56:31
2	Co 228.616†	-45.2	-6.0	-0.1573 ug/L	-0.1573 ppb	20:56:31
2	Cr 267.716†	103.7	8.0	0.1093 ug/L	0.1093 ppb	20:56:31
2	Cu 324.752†	6620.1	224.9	0.7301 ug/L	0.7301 ppb	20:56:11
2	Mn 257.610†	1051.7	592.5	0.7793 ug/L	0.7793 ppb	20:56:31
2	Mo 202.031†	16.2	1.9	0.1687 ug/L	0.1687 ppb	20:56:31
2	Ni 231.604†	67.7	-26.3	-0.8222 ug/L	-0.8222 ppb	20:56:31

2	P 214.914†	201.1	31.5	22.495 ug/L	22.495 ppb	20:56:31
2	Pb 220.353†	-48.6	10.6	1.5889 ug/L	1.5889 ppb	20:56:31
2	S 181.975 Axial†	26.0	1.4	2.4612 ug/L	2.4612 ppb	20:56:31
2	Sb 206.836†	33.3	6.5	2.7705 ug/L	2.7705 ppb	20:56:31
2	Se 196.026†	-13.3	3.7	3.1235 ug/L	3.1235 ppb	20:56:31
2	Si 251.611†	645.7	116.1	4.3195 ug/L	4.3195 ppb	20:56:31
2	Sn 189.927†	6.0	2.9	0.6364 ug/L	0.6364 ppb	20:56:31
2	Ti 334.940†	-1006.8	83.0	0.1374 ug/L	0.1374 ppb	20:56:11
2	Tl 190.801†	-32.5	-7.3	-2.8045 ug/L	-2.8045 ppb	20:56:31
2	U 409.014†	-1931.9	115.7	3.3986 ug/L	3.3986 ppb	20:56:11
2	V 292.402†	-1381.7	54.7	0.4245 ug/L	0.4245 ppb	20:56:11
2	Zn 213.857†	699.0	88.1	1.0429 ug/L	1.0429 ppb	20:56:31
2	SiO2†	600.0	42.8	3.4118 ug/L	3.4118 ppb	20:57:07
3	Sc Radial	4067.5	4067.5	101 %		20:55:39
3	Y RADIAL	4511.7	4511.7	99.86 %		20:55:19
3	Al 396.153Radial†	-44.4	35.7	38.010 ug/L	38.010 ppb	20:55:39
3	Ca 317.933Radial†	33.5	16.0	32.500 ug/L	32.500 ppb	20:55:39
3	Fe 238.204 Radial†	21.8	12.6	157.28 ug/L	157.28 ppb	20:55:39
3	K 766.490 Radial†	2445.2	-378.3	-75.548 ug/L	-75.548 ppb	20:55:19
3	Mg 279.077 IEC†	1.7	0.9	40.930 ug/L	40.930 ppb	20:55:39
3	Na 589.592 Radial†	-392.7	71.4	28.056 ug/L	28.056 ppb	20:55:19
3	Sr 421.552†	62.0	-8.6	-0.0733 ug/L	-0.0733 ppb	20:55:19
3	Sc 361.383	827432.7	827432.7	98.521 %		20:56:36
3	Y 371.029	710173.1	710173.1	99.176 %		20:56:36
3	Ag 328.068†	199.8	-50.6	-0.2052 ug/L	-0.2052 ppb	20:56:36
3	As 188.979†	-17.5	3.1	1.7030 ug/L	1.7030 ppb	20:56:56
3	B 249.677†	-277.3	-31.3	-0.8858 ug/L	-0.8858 ppb	20:56:56
3	Ba 233.527†	22.9	4.7	0.0511 ug/L	0.0511 ppb	20:56:56
3	Be 313.107†	-4334.7	-137.1	-0.0556 ug/L	-0.0556 ppb	20:56:36
3	Cd 226.502†	-163.6	0.3	-0.0118 ug/L	-0.0118 ppb	20:56:56
3	Co 228.616†	-41.6	-3.3	-0.0878 ug/L	-0.0878 ppb	20:56:56
3	Cr 267.716†	90.7	-3.0	-0.0215 ug/L	-0.0215 ppb	20:56:56
3	Cu 324.752†	6526.4	271.6	0.8879 ug/L	0.8879 ppb	20:56:36
3	Mn 257.610†	975.6	537.8	0.7195 ug/L	0.7195 ppb	20:56:56
3	Mo 202.031†	13.2	-0.8	-0.0602 ug/L	-0.0602 ppb	20:56:56
3	Ni 231.604†	80.4	-12.0	-0.3746 ug/L	-0.3746 ppb	20:56:56
3	P 214.914†	190.8	25.5	18.035 ug/L	18.035 ppb	20:56:56
3	Pb 220.353†	-47.0	11.1	1.6616 ug/L	1.6616 ppb	20:56:56
3	S 181.975 Axial†	30.0	6.1	10.695 ug/L	10.695 ppb	20:56:56
3	Sb 206.836†	34.1	8.0	3.3818 ug/L	3.3818 ppb	20:56:56
3	Se 196.026†	-21.7	-5.1	-3.5508 ug/L	-3.5508 ppb	20:56:56
3	Si 251.611†	562.0	45.0	1.6765 ug/L	1.6765 ppb	20:56:56
3	Sn 189.927†	3.6	0.6	0.1237 ug/L	0.1237 ppb	20:56:56
3	Ti 334.940†	-1063.0	4.4	0.0076 ug/L	0.0076 ppb	20:56:36
3	Tl 190.801†	-27.6	-2.9	-1.1186 ug/L	-1.1186 ppb	20:56:56
3	U 409.014†	-1931.6	74.5	2.1753 ug/L	2.1753 ppb	20:56:36
3	V 292.402†	-1297.1	111.0	0.8365 ug/L	0.8365 ppb	20:56:36
3	Zn 213.857†	688.0	91.9	1.0693 ug/L	1.0693 ppb	20:56:56
3	SiO2†	590.8	46.3	3.7032 ug/L	3.7032 ppb	20:57:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833223.9	99.210 %	1.2434			1.25%
Sc Radial	4093.6	101 %	0.7			0.71%
Y 371.029	714437.4	99.771 %	1.3234			1.33%
Y RADIAL	4508.8	99.80 %	0.075			0.07%
Ag 328.068†	-54.6	-0.2477 ug/L	0.12302	-0.2477 ppb	0.12302	49.66%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	20.7	22.047 ug/L	14.2209	22.047 ppb	14.2209	64.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.9	-1.0219 ug/L	3.11513	-1.0219 ppb	3.11513	304.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-33.2	-0.9268 ug/L	0.04595	-0.9268 ppb	0.04595	4.96%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.5	0.0930 ug/L	0.05043	0.0930 ppb	0.05043	54.25%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-181.7	-0.0734 ug/L	0.02055	-0.0734 ppb	0.02055	28.00%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	10.3	20.939 ug/L	10.8022	20.939 ppb	10.8022	51.59%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	3.4	0.0392 ug/L	0.07628	0.0392 ppb	0.07628 194.57%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-4.4	-0.1175 ug/L	0.03584	-0.1175 ppb	0.03584 30.52%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-1.0	-0.0041 ug/L	0.10580	-0.0041 ppb	0.10580 >999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	252.2	0.8204 ug/L	0.08132	0.8204 ppb	0.08132 9.91%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	7.4	92.435 ug/L	56.7523	92.435 ppb	56.7523 61.40%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-317.1	-63.326 ug/L	11.5975	-63.326 ppb	11.5975 18.31%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.5	67.006 ug/L	22.6026	67.006 ppb	22.6026 33.73%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	551.1	0.7294 ug/L	0.04573	0.7294 ppb	0.04573 6.27%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-0.8	-0.0586 ug/L	0.22647	-0.0586 ppb	0.22647 386.79%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	65.2	25.620 ug/L	10.3425	25.620 ppb	10.3425 40.37%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-20.2	-0.6310 ug/L	0.23081	-0.6310 ppb	0.23081 36.58%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	27.0	19.211 ug/L	2.8824	19.211 ppb	2.8824 15.00%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	8.9	1.3389 ug/L	0.49737	1.3389 ppb	0.49737 37.15%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	5.6	9.8174 ug/L	6.95910	9.8174 ppb	6.95910 70.89%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	5.8	2.4592 ug/L	1.11136	2.4592 ppb	1.11136 45.19%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-3.1	-2.1604 ug/L	4.74414	-2.1604 ppb	4.74414 219.59%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	74.5	2.7733 ug/L	1.37764	2.7733 ppb	1.37764 49.68%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	2.5	0.5466 ug/L	0.38591	0.5466 ppb	0.38591 70.60%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-13.6	-0.1160 ug/L	0.07552	-0.1160 ppb	0.07552 65.12%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	98.1	0.1644 ug/L	0.17176	0.1644 ppb	0.17176 104.51%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-5.6	-2.1501 ug/L	0.90401	-2.1501 ppb	0.90401 42.04%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	134.5	3.9474 ug/L	2.10087	3.9474 ppb	2.10087 53.22%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	77.6	0.5927 ug/L	0.21616	0.5927 ppb	0.21616 36.47%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	92.3	1.0860 ug/L	0.05349	1.0860 ppb	0.05349 4.93%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	57.4	4.5902 ug/L	1.79468	4.5902 ppb	1.79468 39.10%
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: 3/25/2010 22:02:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4001.4	4001.4	99.2 %		22:04:42
1	Y RADIAL	4395.0	4395.0	97.28 %		22:04:22
1	Al 396.153Radial†	4574.0	4690.6	4975.3 ug/L	4975.3 ppb	22:04:22
1	Ca 317.933Radial†	2484.3	2487.2	5053.4 ug/L	5053.4 ppb	22:04:42
1	Fe 238.204 Radial†	432.7	427.2	5356.6 ug/L	5356.6 ppb	22:04:42
1	K 766.490 Radial†	27550.6	24970.5	4978.2 ug/L	4978.2 ppb	22:04:22
1	Mg 279.077 IEC†	116.3	116.5	5088.5 ug/L	5088.5 ppb	22:04:42
1	Na 589.592 Radial†	26768.0	27445.6	10778 ug/L	10778 ppb	22:04:22
1	Sr 421.552†	59062.7	59470.9	506.39 ug/L	506.39 ppb	22:04:22
1	Sc 361.383	839379.5	839379.5	99.943 %		22:05:39
1	Y 371.029	706194.1	706194.1	98.620 %		22:05:39
1	Ag 328.068†	98759.4	98561.9	500.03 ug/L	500.03 ppb	22:05:45
1	As 188.979†	875.1	896.5	484.90 ug/L	484.90 ppb	22:06:05
1	B 249.677†	17031.1	17290.9	472.99 ug/L	472.99 ppb	22:05:45
1	Ba 233.527†	51853.1	51863.9	487.43 ug/L	487.43 ppb	22:05:45
1	Be 313.107†	1192099.2	1197037.8	487.11 ug/L	487.11 ppb	22:05:39
1	Cd 226.502†	34502.2	34688.2	489.10 ug/L	489.10 ppb	22:05:45
1	Co 228.616†	19153.2	19203.0	499.86 ug/L	499.86 ppb	22:05:45
1	Cr 267.716†	37365.7	37291.9	486.56 ug/L	486.56 ppb	22:05:45
1	Cu 324.752†	156302.4	150038.3	486.50 ug/L	486.50 ppb	22:05:45
1	Mn 257.610†	367594.9	367350.9	482.30 ug/L	482.30 ppb	22:05:45
1	Mo 202.031†	5581.3	5570.3	490.20 ug/L	490.20 ppb	22:06:05
1	Ni 231.604†	15881.7	15797.1	492.96 ug/L	492.96 ppb	22:05:45
1	P 214.914†	3559.3	3393.1	2343.8 ug/L	2343.8 ppb	22:06:05
1	Pb 220.353†	3162.9	3223.5	487.34 ug/L	487.34 ppb	22:06:05
1	S 181.975 Axial†	594.2	570.2	998.43 ug/L	998.43 ppb	22:06:05
1	Sb 206.836†	1206.5	1180.5	519.18 ug/L	519.18 ppb	22:06:05
1	Se 196.026†	604.9	622.2	515.11 ug/L	515.11 ppb	22:06:05
1	Si 251.611†	66967.8	66480.3	2469.2 ug/L	2469.2 ppb	22:05:45
1	Sn 189.927†	2207.8	2205.9	489.16 ug/L	489.16 ppb	22:06:05
1	Ti 334.940†	282717.0	283960.6	488.42 ug/L	488.42 ppb	22:05:45
1	Tl 190.801†	1219.2	1244.9	484.59 ug/L	484.59 ppb	22:06:05
1	U 409.014†	15395.3	17439.2	511.44 ug/L	511.44 ppb	22:05:45
1	V 292.402†	61733.8	63196.4	493.70 ug/L	493.70 ppb	22:05:45
1	Zn 213.857†	41660.3	41077.5	483.39 ug/L	483.39 ppb	22:05:45
1	SiO2†	67300.2	66785.0	5322.5 ug/L	5322.5 ppb	22:07:12
2	Sc Radial	3976.3	3976.3	98.6 %		22:05:07
2	Y RADIAL	4482.0	4482.0	99.20 %		22:04:47
2	Al 396.153Radial†	4509.2	4654.1	4936.0 ug/L	4936.0 ppb	22:04:47
2	Ca 317.933Radial†	2456.9	2475.3	5029.1 ug/L	5029.1 ppb	22:05:07
2	Fe 238.204 Radial†	424.8	421.9	5291.2 ug/L	5291.2 ppb	22:05:07
2	K 766.490 Radial†	27377.5	24970.3	4978.3 ug/L	4978.3 ppb	22:04:47
2	Mg 279.077 IEC†	120.0	121.0	5287.3 ug/L	5287.3 ppb	22:05:07
2	Na 589.592 Radial†	26323.3	27165.1	10668 ug/L	10668 ppb	22:04:47
2	Sr 421.552†	58272.7	59045.7	502.77 ug/L	502.77 ppb	22:04:47
2	Sc 361.383	837626.8	837626.8	99.735 %		22:06:10
2	Y 371.029	705658.3	705658.3	98.545 %		22:06:10
2	Ag 328.068†	99010.0	99020.0	502.32 ug/L	502.32 ppb	22:06:15
2	As 188.979†	878.5	901.6	487.64 ug/L	487.64 ppb	22:06:35
2	B 249.677†	17154.8	17450.6	477.39 ug/L	477.39 ppb	22:06:15
2	Ba 233.527†	51923.4	52043.1	489.11 ug/L	489.11 ppb	22:06:15
2	Be 313.107†	1191243.4	1198675.5	487.78 ug/L	487.78 ppb	22:06:10
2	Cd 226.502†	34435.5	34693.5	489.18 ug/L	489.18 ppb	22:06:15
2	Co 228.616†	19120.5	19210.3	500.07 ug/L	500.07 ppb	22:06:15
2	Cr 267.716†	37339.8	37344.2	487.24 ug/L	487.24 ppb	22:06:15
2	Cu 324.752†	156809.3	150873.8	489.21 ug/L	489.21 ppb	22:06:15
2	Mn 257.610†	367348.0	367873.0	482.97 ug/L	482.97 ppb	22:06:15
2	Mo 202.031†	5662.8	5663.7	498.40 ug/L	498.40 ppb	22:06:35
2	Ni 231.604†	15885.9	15834.6	494.13 ug/L	494.13 ppb	22:06:15

2	P 214.914†	3589.7	3431.0	2370.6 ug/L	2370.6 ppb	22:06:35
2	Pb 220.353†	3173.6	3240.9	489.97 ug/L	489.97 ppb	22:06:35
2	S 181.975 Axial†	580.0	557.1	975.60 ug/L	975.60 ppb	22:06:35
2	Sb 206.836†	1219.5	1196.1	526.04 ug/L	526.04 ppb	22:06:35
2	Se 196.026†	609.1	627.7	519.30 ug/L	519.30 ppb	22:06:35
2	Si 251.611†	66758.0	66410.1	2466.5 ug/L	2466.5 ppb	22:06:15
2	Sn 189.927†	2226.5	2229.3	494.34 ug/L	494.34 ppb	22:06:35
2	Ti 334.940†	282990.3	284826.6	489.89 ug/L	489.89 ppb	22:06:15
2	Tl 190.801†	1228.9	1257.2	489.35 ug/L	489.35 ppb	22:06:35
2	U 409.014†	15471.2	17547.5	514.64 ug/L	514.64 ppb	22:06:15
2	V 292.402†	61709.7	63301.4	494.64 ug/L	494.64 ppb	22:06:15
2	Zn 213.857†	41617.4	41121.7	483.92 ug/L	483.92 ppb	22:06:15
2	SiO2†	66953.4	66578.2	5305.7 ug/L	5305.7 ppb	22:07:17
3	Sc Radial	4044.5	4044.5	100 %		22:05:32
3	Y RADIAL	4435.6	4435.6	98.18 %		22:05:12
3	Al 396.153Radial†	4536.9	4604.6	4883.6 ug/L	4883.6 ppb	22:05:12
3	Ca 317.933Radial†	2474.8	2451.1	4980.0 ug/L	4980.0 ppb	22:05:32
3	Fe 238.204 Radial†	429.4	419.2	5257.2 ug/L	5257.2 ppb	22:05:32
3	K 766.490 Radial†	27646.4	24770.4	4938.4 ug/L	4938.4 ppb	22:05:12
3	Mg 279.077 IEC†	120.5	119.4	5217.7 ug/L	5217.7 ppb	22:05:32
3	Na 589.592 Radial†	26635.9	27026.7	10614 ug/L	10614 ppb	22:05:12
3	Sr 421.552†	58784.0	58559.2	498.63 ug/L	498.63 ppb	22:05:12
3	Sc 361.383	846524.5	846524.5	100.79 %		22:06:41
3	Y 371.029	712501.6	712501.6	99.501 %		22:06:41
3	Ag 328.068†	100109.7	99067.6	502.56 ug/L	502.56 ppb	22:06:46
3	As 188.979†	887.3	901.1	487.40 ug/L	487.40 ppb	22:07:06
3	B 249.677†	17498.3	17610.6	481.78 ug/L	481.78 ppb	22:06:46
3	Ba 233.527†	52473.8	52041.8	489.10 ug/L	489.10 ppb	22:06:46
3	Be 313.107†	1198951.6	1193768.8	485.79 ug/L	485.79 ppb	22:06:41
3	Cd 226.502†	34944.4	34835.5	491.18 ug/L	491.18 ppb	22:06:46
3	Co 228.616†	19427.0	19312.9	502.72 ug/L	502.72 ppb	22:06:46
3	Cr 267.716†	37798.1	37405.4	488.03 ug/L	488.03 ppb	22:06:46
3	Cu 324.752†	158830.0	151225.9	490.35 ug/L	490.35 ppb	22:06:46
3	Mn 257.610†	371770.9	368389.6	483.65 ug/L	483.65 ppb	22:06:46
3	Mo 202.031†	5641.3	5582.6	491.27 ug/L	491.27 ppb	22:07:06
3	Ni 231.604†	16068.2	15848.0	494.55 ug/L	494.55 ppb	22:06:46
3	P 214.914†	3588.8	3392.3	2342.5 ug/L	2342.5 ppb	22:07:06
3	Pb 220.353†	3174.7	3208.5	485.07 ug/L	485.07 ppb	22:07:06
3	S 181.975 Axial†	584.8	555.8	973.30 ug/L	973.30 ppb	22:07:06
3	Sb 206.836†	1217.1	1180.9	519.35 ug/L	519.35 ppb	22:07:06
3	Se 196.026†	607.1	619.3	512.44 ug/L	512.44 ppb	22:07:06
3	Si 251.611†	67648.7	66590.3	2473.3 ug/L	2473.3 ppb	22:06:46
3	Sn 189.927†	2224.2	2203.5	488.62 ug/L	488.62 ppb	22:07:06
3	Ti 334.940†	286616.4	285441.7	490.94 ug/L	490.94 ppb	22:06:46
3	Tl 190.801†	1228.3	1243.7	484.13 ug/L	484.13 ppb	22:07:06
3	U 409.014†	15513.8	17426.8	511.09 ug/L	511.09 ppb	22:06:46
3	V 292.402†	62578.6	63513.1	496.17 ug/L	496.17 ppb	22:06:46
3	Zn 213.857†	42187.2	41248.4	485.42 ug/L	485.42 ppb	22:06:46
3	SiO2†	67283.7	66200.2	5275.7 ug/L	5275.7 ppb	22:07:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841176.9	100.16 %	0.561			0.56%
Sc Radial	4007.4	99.3 %	0.85			0.86%
Y 371.029	708118.0	98.889 %	0.5315			0.54%
Y RADIAL	4437.5	98.22 %	0.963			0.98%
Ag 328.068†	98883.2	501.64 ug/L	1.397	501.64 ppb	1.397	0.28%
QC value within limits for Ag 328.068 Recovery = 100.33%						
Al 396.153Radial†	4649.8	4931.6 ug/L	46.02	4931.6 ppb	46.02	0.93%
QC value within limits for Al 396.153Radial Recovery = 98.63%						
As 188.979†	899.8	486.65 ug/L	1.517	486.65 ppb	1.517	0.31%
QC value within limits for As 188.979 Recovery = 97.33%						
B 249.677†	17450.7	477.39 ug/L	4.398	477.39 ppb	4.398	0.92%
QC value within limits for B 249.677 Recovery = 95.48%						
Ba 233.527†	51983.0	488.55 ug/L	0.967	488.55 ppb	0.967	0.20%
QC value within limits for Ba 233.527 Recovery = 97.71%						
Be 313.107†	1196494.0	486.89 ug/L	1.013	486.89 ppb	1.013	0.21%
QC value within limits for Be 313.107 Recovery = 97.38%						
Ca 317.933Radial†	2471.2	5020.8 ug/L	37.42	5020.8 ppb	37.42	0.75%

QC value within limits for Ca 317.933 Radial Recovery = 100.42%

Cd 226.502†	34739.1	489.82 ug/L	1.183	489.82 ppb	1.183	0.24%
QC value within limits for Cd 226.502 Recovery = 97.96%						
Co 228.616†	19242.1	500.88 ug/L	1.594	500.88 ppb	1.594	0.32%
QC value within limits for Co 228.616 Recovery = 100.18%						
Cr 267.716†	37347.2	487.28 ug/L	0.736	487.28 ppb	0.736	0.15%
QC value within limits for Cr 267.716 Recovery = 97.46%						
Cu 324.752†	150712.7	488.69 ug/L	1.975	488.69 ppb	1.975	0.40%
QC value within limits for Cu 324.752 Recovery = 97.74%						
Fe 238.204 Radial†	422.8	5301.7 ug/L	50.51	5301.7 ppb	50.51	0.95%
QC value within limits for Fe 238.204 Radial Recovery = 106.03%						
K 766.490 Radial†	24903.7	4965.0 ug/L	23.01	4965.0 ppb	23.01	0.46%
QC value within limits for K 766.490 Radial Recovery = 99.30%						
Mg 279.077 IEC†	119.0	5197.8 ug/L	100.85	5197.8 ppb	100.85	1.94%
QC value within limits for Mg 279.077 IEC Recovery = 103.96%						
Mn 257.610†	367871.2	482.98 ug/L	0.674	482.98 ppb	0.674	0.14%
QC value within limits for Mn 257.610 Recovery = 96.60%						
Mo 202.031†	5605.5	493.29 ug/L	4.459	493.29 ppb	4.459	0.90%
QC value within limits for Mo 202.031 Recovery = 98.66%						
Na 589.592 Radial†	27212.4	10687 ug/L	83.8	10687 ppb	83.8	0.78%
QC value within limits for Na 589.592 Radial Recovery = 106.87%						
Ni 231.604†	15826.6	493.88 ug/L	0.822	493.88 ppb	0.822	0.17%
QC value within limits for Ni 231.604 Recovery = 98.78%						
P 214.914†	3405.5	2352.3 ug/L	15.84	2352.3 ppb	15.84	0.67%
QC value within limits for P 214.914 Recovery = 94.09%						
Pb 220.353†	3224.3	487.46 ug/L	2.457	487.46 ppb	2.457	0.50%
QC value within limits for Pb 220.353 Recovery = 97.49%						
S 181.975 Axial†	561.0	982.44 ug/L	13.891	982.44 ppb	13.891	1.41%
QC value within limits for S 181.975 Axial Recovery = 98.24%						
Sb 206.836†	1185.8	521.52 ug/L	3.908	521.52 ppb	3.908	0.75%
QC value within limits for Sb 206.836 Recovery = 104.30%						
Se 196.026†	623.1	515.62 ug/L	3.456	515.62 ppb	3.456	0.67%
QC value within limits for Se 196.026 Recovery = 103.12%						
Si 251.611†	66493.6	2469.7 ug/L	3.42	2469.7 ppb	3.42	0.14%
QC value within limits for Si 251.611 Recovery = 98.79%						
Sn 189.927†	2212.9	490.71 ug/L	3.154	490.71 ppb	3.154	0.64%
QC value within limits for Sn 189.927 Recovery = 98.14%						
Sr 421.552†	59025.3	502.60 ug/L	3.884	502.60 ppb	3.884	0.77%
QC value within limits for Sr 421.552 Recovery = 100.52%						
Ti 334.940†	284743.0	489.75 ug/L	1.269	489.75 ppb	1.269	0.26%
QC value within limits for Ti 334.940 Recovery = 97.95%						
Tl 190.801†	1248.6	486.02 ug/L	2.887	486.02 ppb	2.887	0.59%
QC value within limits for Tl 190.801 Recovery = 97.20%						
U 409.014†	17471.2	512.39 ug/L	1.955	512.39 ppb	1.955	0.38%
QC value within limits for U 409.014 Recovery = 102.48%						
V 292.402†	63337.0	494.84 ug/L	1.247	494.84 ppb	1.247	0.25%
QC value within limits for V 292.402 Recovery = 98.97%						
Zn 213.857†	41149.2	484.24 ug/L	1.054	484.24 ppb	1.054	0.22%
QC value within limits for Zn 213.857 Recovery = 96.85%						
SiO2†	66521.1	5301.3 ug/L	23.69	5301.3 ppb	23.69	0.45%
QC value within limits for SiO2 Recovery = 99.14%						

All analyte(s) passed QC.

Sequence No.: 49

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/25/2010 22:09:31

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	4152.7	4152.7	103 %		22:11:43
1	Y RADIAL	4648.0	4648.0	102.9 %		22:11:23
1	Al 396.153Radial†	-74.2	7.5	8.0568 ug/L	8.0568 ppb	22:11:43
1	Ca 317.933Radial†	23.4	5.5	11.271 ug/L	11.271 ppb	22:11:43
1	Fe 238.204 Radial†	15.8	6.4	79.450 ug/L	79.450 ppb	22:11:43
1	K 766.490 Radial†	2584.0	-293.3	-58.565 ug/L	-58.565 ppb	22:11:23
1	Mg 279.077 IEC†	4.5	3.7	161.38 ug/L	161.38 ppb	22:11:43
1	Na 589.592 Radial†	-370.0	101.4	39.834 ug/L	39.834 ppb	22:11:23
1	Sr 421.552†	59.3	-12.4	-0.1061 ug/L	-0.1061 ppb	22:11:23
1	Sc 361.383	824304.3	824304.3	98.148 %		22:12:40
1	Y 371.029	701365.4	701365.4	97.946 %		22:12:40
1	Ag 328.068†	142.8	-107.9	-0.5158 ug/L	-0.5158 ppb	22:12:40
1	As 188.979†	-28.3	-8.0	-4.2534 ug/L	-4.2534 ppb	22:13:00
1	B 249.677†	-242.2	3.4	0.0809 ug/L	0.0809 ppb	22:13:00
1	Ba 233.527†	16.1	-2.1	-0.0139 ug/L	-0.0139 ppb	22:13:00
1	Be 313.107†	-4453.6	-274.9	-0.1109 ug/L	-0.1109 ppb	22:12:40
1	Cd 226.502†	-169.7	-6.5	-0.1005 ug/L	-0.1005 ppb	22:13:00
1	Co 228.616†	-44.8	-6.8	-0.1787 ug/L	-0.1787 ppb	22:13:00
1	Cr 267.716†	111.4	18.5	0.2505 ug/L	0.2505 ppb	22:13:00
1	Cu 324.752†	6419.5	187.8	0.6120 ug/L	0.6120 ppb	22:12:40
1	Mn 257.610†	1007.1	573.6	0.7539 ug/L	0.7539 ppb	22:13:00
1	Mo 202.031†	10.6	-3.4	-0.2957 ug/L	-0.2957 ppb	22:13:00
1	Ni 231.604†	62.2	-30.3	-0.9453 ug/L	-0.9453 ppb	22:13:00
1	P 214.914†	197.7	33.2	23.716 ug/L	23.716 ppb	22:13:00
1	Pb 220.353†	-53.0	4.8	0.7119 ug/L	0.7119 ppb	22:13:00
1	S 181.975 Axial†	25.3	1.3	2.3642 ug/L	2.3642 ppb	22:13:00
1	Sb 206.836†	27.8	1.7	0.7790 ug/L	0.7790 ppb	22:13:00
1	Se 196.026†	-21.6	-5.0	-3.7588 ug/L	-3.7588 ppb	22:13:00
1	Si 251.611†	616.1	102.3	3.8114 ug/L	3.8114 ppb	22:13:00
1	Sn 189.927†	17.0	14.2	3.1522 ug/L	3.1522 ppb	22:13:00
1	Ti 334.940†	-887.9	178.6	0.2946 ug/L	0.2946 ppb	22:12:40
1	Tl 190.801†	-28.0	-3.5	-1.3440 ug/L	-1.3440 ppb	22:13:00
1	U 409.014†	-1921.9	77.0	2.2572 ug/L	2.2572 ppb	22:12:40
1	V 292.402†	-1231.3	173.0	1.3250 ug/L	1.3250 ppb	22:12:40
1	Zn 213.857†	684.4	90.9	1.0730 ug/L	1.0730 ppb	22:13:00
1	SiO2†	618.3	76.6	6.1270 ug/L	6.1270 ppb	22:13:56
2	Sc Radial	4084.5	4084.5	101 %		22:12:08
2	Y RADIAL	4561.2	4561.2	101.0 %		22:11:48
2	Al 396.153Radial†	-61.1	19.3	20.580 ug/L	20.580 ppb	22:12:08
2	Ca 317.933Radial†	24.5	7.0	14.266 ug/L	14.266 ppb	22:12:08
2	Fe 238.204 Radial†	15.8	6.6	83.080 ug/L	83.080 ppb	22:12:08
2	K 766.490 Radial†	2480.9	-353.2	-70.520 ug/L	-70.520 ppb	22:11:48
2	Mg 279.077 IEC†	3.1	2.3	101.63 ug/L	101.63 ppb	22:12:08
2	Na 589.592 Radial†	-369.6	95.8	37.641 ug/L	37.641 ppb	22:11:48
2	Sr 421.552†	70.4	-0.5	-0.0045 ug/L	-0.0045 ppb	22:11:48
2	Sc 361.383	822658.7	822658.7	97.952 %		22:13:05
2	Y 371.029	701650.4	701650.4	97.986 %		22:13:05
2	Ag 328.068†	207.4	-41.7	-0.1887 ug/L	-0.1887 ppb	22:13:05
2	As 188.979†	-26.7	-6.4	-3.4297 ug/L	-3.4297 ppb	22:13:25
2	B 249.677†	-234.6	10.6	0.2805 ug/L	0.2805 ppb	22:13:25
2	Ba 233.527†	29.2	11.3	0.1080 ug/L	0.1080 ppb	22:13:25
2	Be 313.107†	-4369.5	-198.2	-0.0799 ug/L	-0.0799 ppb	22:13:05
2	Cd 226.502†	-160.9	2.1	0.0225 ug/L	0.0225 ppb	22:13:25
2	Co 228.616†	-54.8	-17.0	-0.4455 ug/L	-0.4455 ppb	22:13:25
2	Cr 267.716†	117.4	24.8	0.3302 ug/L	0.3302 ppb	22:13:25
2	Cu 324.752†	6423.9	205.5	0.6682 ug/L	0.6682 ppb	22:13:05
2	Mn 257.610†	1369.1	945.3	1.2443 ug/L	1.2443 ppb	22:13:25
2	Mo 202.031†	11.0	-3.0	-0.2569 ug/L	-0.2569 ppb	22:13:25
2	Ni 231.604†	96.2	4.6	0.1432 ug/L	0.1432 ppb	22:13:25

2	P 214.914†	183.9	19.5	13.851 ug/L	13.851 ppb	22:13:25
2	Pb 220.353†	-44.0	13.8	2.0794 ug/L	2.0794 ppb	22:13:25
2	S 181.975 Axial†	25.5	1.7	2.9554 ug/L	2.9554 ppb	22:13:25
2	Sb 206.836†	30.3	4.3	1.8728 ug/L	1.8728 ppb	22:13:25
2	Se 196.026†	-13.5	3.2	2.7672 ug/L	2.7672 ppb	22:13:25
2	Si 251.611†	704.4	193.6	7.2129 ug/L	7.2129 ppb	22:13:25
2	Sn 189.927†	12.8	10.0	2.2132 ug/L	2.2132 ppb	22:13:25
2	Ti 334.940†	-931.5	132.4	0.2193 ug/L	0.2193 ppb	22:13:05
2	Tl 190.801†	-22.5	2.1	0.8035 ug/L	0.8035 ppb	22:13:25
2	U 409.014†	-1846.3	150.3	4.4115 ug/L	4.4115 ppb	22:13:05
2	V 292.402†	-1414.1	-16.1	-0.1298 ug/L	-0.1298 ppb	22:13:05
2	Zn 213.857†	693.1	101.1	1.1872 ug/L	1.1872 ppb	22:13:25
2	SiO2†	562.2	20.5	1.6484 ug/L	1.6484 ppb	22:14:01
3	Sc Radial	4077.3	4077.3	101 %		22:12:33
3	Y RADIAL	4472.3	4472.3	98.99 %		22:12:13
3	Al 396.153Radial†	-66.6	13.7	14.633 ug/L	14.633 ppb	22:12:33
3	Ca 317.933Radial†	19.1	1.7	3.3895 ug/L	3.3895 ppb	22:12:33
3	Fe 238.204 Radial†	12.4	3.2	40.536 ug/L	40.536 ppb	22:12:33
3	K 766.490 Radial†	2587.1	-243.8	-48.678 ug/L	-48.678 ppb	22:12:13
3	Mg 279.077 IEC†	2.6	1.8	79.853 ug/L	79.853 ppb	22:12:33
3	Na 589.592 Radial†	-393.1	71.9	28.253 ug/L	28.253 ppb	22:12:13
3	Sr 421.552†	60.8	-9.9	-0.0844 ug/L	-0.0844 ppb	22:12:13
3	Sc 361.383	830689.1	830689.1	98.909 %		22:13:31
3	Y 371.029	707615.3	707615.3	98.819 %		22:13:31
3	Ag 328.068†	156.7	-95.0	-0.4660 ug/L	-0.4660 ppb	22:13:31
3	As 188.979†	-20.5	0.1	0.0762 ug/L	0.0762 ppb	22:13:51
3	B 249.677†	-252.6	-5.2	-0.1500 ug/L	-0.1500 ppb	22:13:51
3	Ba 233.527†	11.3	-7.1	-0.0625 ug/L	-0.0625 ppb	22:13:51
3	Be 313.107†	-4265.0	-49.4	-0.0178 ug/L	-0.0178 ppb	22:13:31
3	Cd 226.502†	-170.2	-5.7	-0.0839 ug/L	-0.0839 ppb	22:13:51
3	Co 228.616†	-49.4	-11.0	-0.2895 ug/L	-0.2895 ppb	22:13:51
3	Cr 267.716†	105.3	11.5	0.1530 ug/L	0.1530 ppb	22:13:51
3	Cu 324.752†	6538.7	258.1	0.8359 ug/L	0.8359 ppb	22:13:31
3	Mn 257.610†	937.8	495.7	0.6512 ug/L	0.6512 ppb	22:13:51
3	Mo 202.031†	14.8	0.7	0.0687 ug/L	0.0687 ppb	22:13:51
3	Ni 231.604†	70.1	-22.7	-0.7086 ug/L	-0.7086 ppb	22:13:51
3	P 214.914†	203.5	37.5	26.766 ug/L	26.766 ppb	22:13:51
3	Pb 220.353†	-55.5	2.7	0.4006 ug/L	0.4006 ppb	22:13:51
3	S 181.975 Axial†	30.0	5.9	10.377 ug/L	10.377 ppb	22:13:51
3	Sb 206.836†	25.7	-0.6	-0.2493 ug/L	-0.2493 ppb	22:13:51
3	Se 196.026†	-20.5	-3.8	-2.8926 ug/L	-2.8926 ppb	22:13:51
3	Si 251.611†	596.4	77.5	2.8857 ug/L	2.8857 ppb	22:13:51
3	Sn 189.927†	6.9	3.9	0.8578 ug/L	0.8578 ppb	22:13:51
3	Ti 334.940†	-506.9	570.9	0.9736 ug/L	0.9736 ppb	22:13:31
3	Tl 190.801†	-22.5	2.3	0.9081 ug/L	0.9081 ppb	22:13:51
3	U 409.014†	-1818.8	196.3	5.7699 ug/L	5.7699 ppb	22:13:31
3	V 292.402†	-1253.6	160.1	1.2405 ug/L	1.2405 ppb	22:13:31
3	Zn 213.857†	675.4	76.4	0.9052 ug/L	0.9052 ppb	22:13:51
3	SiO2†	685.9	140.1	11.191 ug/L	11.191 ppb	22:14:06

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825884.0	98.336 %	0.5051			0.51%
Sc Radial	4104.9	102 %	1.0			1.01%
Y 371.029	703543.7	98.250 %	0.4928			0.50%
Y RADIAL	4560.5	100.9 %	1.94			1.93%
Ag 328.068†	-81.5	-0.3902 ug/L	0.17625	-0.3902 ppb	0.17625	45.17%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.5	14.423 ug/L	6.2642	14.423 ppb	6.2642	43.43%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-4.8	-2.5356 ug/L	2.29914	-2.5356 ppb	2.29914	90.67%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.9	0.0705 ug/L	0.21542	0.0705 ppb	0.21542	305.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.7	0.0105 ug/L	0.08787	0.0105 ppb	0.08787	834.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-174.2	-0.0696 ug/L	0.04741	-0.0696 ppb	0.04741	68.15%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.7	9.6422 ug/L	5.61821	9.6422 ppb	5.61821	58.27%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-3.4	-0.0540 ug/L	0.06678	-0.0540 ppb	0.06678	123.75%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-11.6	-0.3046 ug/L	0.13404	-0.3046 ppb	0.13404	44.01%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	18.3	0.2446 ug/L	0.08878	0.2446 ppb	0.08878	36.30%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	217.1	0.7053 ug/L	0.11646	0.7053 ppb	0.11646	16.51%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	5.4	67.689 ug/L	23.5848	67.689 ppb	23.5848	34.84%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-296.7	-59.254 ug/L	10.9373	-59.254 ppb	10.9373	18.46%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.6	114.29 ug/L	42.211	114.29 ppb	42.211	36.93%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	671.6	0.8831 ug/L	0.31701	0.8831 ppb	0.31701	35.90%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-1.9	-0.1613 ug/L	0.20013	-0.1613 ppb	0.20013	124.07%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	89.7	35.243 ug/L	6.1514	35.243 ppb	6.1514	17.45%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-16.1	-0.5036 ug/L	0.57247	-0.5036 ppb	0.57247	113.68%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	30.1	21.444 ug/L	6.7506	21.444 ppb	6.7506	31.48%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	7.1	1.0640 ug/L	0.89308	1.0640 ppb	0.89308	83.94%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.0	5.2322 ug/L	4.46544	5.2322 ppb	4.46544	85.34%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.8	0.8008 ug/L	1.06124	0.8008 ppb	1.06124	132.52%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.9	-1.2947 ug/L	3.54430	-1.2947 ppb	3.54430	273.75%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	124.5	4.6367 ug/L	2.27860	4.6367 ppb	2.27860	49.14%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	9.4	2.0744 ug/L	1.15347	2.0744 ppb	1.15347	55.60%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.6	-0.0650 ug/L	0.05348	-0.0650 ppb	0.05348	82.29%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	294.0	0.4958 ug/L	0.41544	0.4958 ppb	0.41544	83.79%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.3	0.1225 ug/L	1.27115	0.1225 ppb	1.27115	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	141.2	4.1462 ug/L	1.77130	4.1462 ppb	1.77130	42.72%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	105.7	0.8119 ug/L	0.81663	0.8119 ppb	0.81663	100.58%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	89.5	1.0551 ug/L	0.14183	1.0551 ppb	0.14183	13.44%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	79.1	6.3221 ug/L	4.77432	6.3221 ppb	4.77432	75.52%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/25/2010 23:20:08

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	3978.3	3978.3	98.6 %		23:22:20
1	Y RADIAL	4504.8	4504.8	99.71 %		23:22:00
1	Al 396.153Radial†	4368.7	4509.3	4781.7 ug/L	4781.7 ppb	23:22:00
1	Ca 317.933Radial†	2422.5	2439.1	4955.6 ug/L	4955.6 ppb	23:22:20
1	Fe 238.204 Radial†	403.1	399.7	5013.1 ug/L	5013.1 ppb	23:22:20
1	K 766.490 Radial†	26505.5	24072.1	4799.3 ug/L	4799.3 ppb	23:22:00
1	Mg 279.077 IEC†	113.7	114.6	5004.8 ug/L	5004.8 ppb	23:22:20
1	Na 589.592 Radial†	24350.4	25151.1	9877.2 ug/L	9877.2 ppb	23:22:00
1	Sr 421.552†	55059.5	55757.7	474.77 ug/L	474.77 ppb	23:22:00
1	Sc 361.383	843509.8	843509.8	100.44 %		23:23:18
1	Y 371.029	709207.5	709207.5	99.041 %		23:23:18
1	Ag 328.068†	99691.6	99006.3	502.19 ug/L	502.19 ppb	23:23:23
1	As 188.979†	888.1	905.1	489.46 ug/L	489.46 ppb	23:23:43
1	B 249.677†	17148.8	17324.6	473.95 ug/L	473.95 ppb	23:23:23
1	Ba 233.527†	52539.1	52292.9	491.45 ug/L	491.45 ppb	23:23:23
1	Be 313.107†	1217695.7	1216682.8	495.09 ug/L	495.09 ppb	23:23:18
1	Cd 226.502†	35139.8	35154.0	495.70 ug/L	495.70 ppb	23:23:23
1	Co 228.616†	19513.4	19467.8	506.77 ug/L	506.77 ppb	23:23:23
1	Cr 267.716†	37920.1	37660.9	491.34 ug/L	491.34 ppb	23:23:23
1	Cu 324.752†	157772.5	150736.2	488.75 ug/L	488.75 ppb	23:23:23
1	Mn 257.610†	383451.9	381338.2	500.62 ug/L	500.62 ppb	23:23:18
1	Mo 202.031†	5691.1	5652.2	497.37 ug/L	497.37 ppb	23:23:43
1	Ni 231.604†	16138.4	15974.9	498.51 ug/L	498.51 ppb	23:23:23
1	P 214.914†	3631.7	3447.8	2382.9 ug/L	2382.9 ppb	23:23:43
1	Pb 220.353†	3244.5	3289.2	497.27 ug/L	497.27 ppb	23:23:43
1	S 181.975 Axial†	594.7	567.7	994.25 ug/L	994.25 ppb	23:23:43
1	Sb 206.836†	1220.2	1188.2	522.74 ug/L	522.74 ppb	23:23:43
1	Se 196.026†	617.3	631.6	521.51 ug/L	521.51 ppb	23:23:43
1	Si 251.611†	67764.1	66945.0	2486.5 ug/L	2486.5 ppb	23:23:23
1	Sn 189.927†	2253.1	2240.3	496.77 ug/L	496.77 ppb	23:23:43
1	Ti 334.940†	285754.4	285599.7	491.23 ug/L	491.23 ppb	23:23:23
1	Tl 190.801†	1230.0	1249.8	486.53 ug/L	486.53 ppb	23:23:43
1	U 409.014†	15362.6	17331.3	508.30 ug/L	508.30 ppb	23:23:23
1	V 292.402†	62530.2	63686.8	497.62 ug/L	497.62 ppb	23:23:23
1	Zn 213.857†	42218.9	41429.6	487.59 ug/L	487.59 ppb	23:23:23
1	SiO2†	69063.1	68210.5	5436.1 ug/L	5436.1 ppb	23:24:50
2	Sc Radial	3970.1	3970.1	98.4 %		23:22:45
2	Y RADIAL	4323.2	4323.2	95.69 %		23:22:25
2	Al 396.153Radial†	4456.2	4607.3	4885.9 ug/L	4885.9 ppb	23:22:25
2	Ca 317.933Radial†	2453.4	2475.6	5029.8 ug/L	5029.8 ppb	23:22:45
2	Fe 238.204 Radial†	407.2	404.7	5076.1 ug/L	5076.1 ppb	23:22:45
2	K 766.490 Radial†	27039.7	24670.4	4918.6 ug/L	4918.6 ppb	23:22:25
2	Mg 279.077 IEC†	114.5	115.6	5050.4 ug/L	5050.4 ppb	23:22:45
2	Na 589.592 Radial†	24731.0	25588.7	10049 ug/L	10049 ppb	23:22:25
2	Sr 421.552†	56372.3	57206.8	487.11 ug/L	487.11 ppb	23:22:25
2	Sc 361.383	829873.2	829873.2	98.811 %		23:23:49
2	Y 371.029	698250.0	698250.0	97.511 %		23:23:49
2	Ag 328.068†	100391.2	101345.4	514.02 ug/L	514.02 ppb	23:23:54
2	As 188.979†	886.0	917.5	496.20 ug/L	496.20 ppb	23:24:14
2	B 249.677†	17377.3	17836.5	487.99 ug/L	487.99 ppb	23:23:54
2	Ba 233.527†	52858.8	53476.1	502.57 ug/L	502.57 ppb	23:23:54
2	Be 313.107†	1196126.9	1214777.4	494.34 ug/L	494.34 ppb	23:23:49
2	Cd 226.502†	35235.7	35826.0	505.18 ug/L	505.18 ppb	23:23:54
2	Co 228.616†	19520.4	19794.1	515.25 ug/L	515.25 ppb	23:23:54
2	Cr 267.716†	38044.2	38406.9	501.06 ug/L	501.06 ppb	23:23:54
2	Cu 324.752†	158886.3	154444.7	500.77 ug/L	500.77 ppb	23:23:54
2	Mn 257.610†	377677.0	381767.5	501.19 ug/L	501.19 ppb	23:23:49
2	Mo 202.031†	5675.9	5730.0	504.22 ug/L	504.22 ppb	23:24:14
2	Ni 231.604†	16169.6	16270.5	507.74 ug/L	507.74 ppb	23:23:54

2	P 214.914†	3609.1	3484.3	2406.8 ug/L	2406.8 ppb	23:24:14
2	Pb 220.353†	3210.6	3308.0	500.13 ug/L	500.13 ppb	23:24:14
2	S 181.975 Axial†	593.7	576.5	1009.5 ug/L	1009.5 ppb	23:24:14
2	Sb 206.836†	1229.0	1217.2	535.29 ug/L	535.29 ppb	23:24:14
2	Se 196.026†	608.3	632.6	522.54 ug/L	522.54 ppb	23:24:14
2	Si 251.611†	67926.8	68218.4	2533.8 ug/L	2533.8 ppb	23:23:54
2	Sn 189.927†	2255.0	2279.0	505.35 ug/L	505.35 ppb	23:24:14
2	Ti 334.940†	287249.1	291787.6	501.87 ug/L	501.87 ppb	23:23:54
2	Tl 190.801†	1230.3	1270.1	494.45 ug/L	494.45 ppb	23:24:14
2	U 409.014†	15673.2	17896.9	524.91 ug/L	524.91 ppb	23:23:54
2	V 292.402†	62794.2	64977.1	507.67 ug/L	507.67 ppb	23:23:54
2	Zn 213.857†	42457.6	42361.8	498.58 ug/L	498.58 ppb	23:23:54
2	SiO2†	67986.3	68250.7	5439.2 ug/L	5439.2 ppb	23:24:55
3	Sc Radial	3989.0	3989.0	98.9 %		23:23:10
3	Y RADIAL	4429.4	4429.4	98.04 %		23:22:50
3	Al 396.153Radial†	4499.1	4629.2	4909.5 ug/L	4909.5 ppb	23:22:50
3	Ca 317.933Radial†	2462.0	2472.5	5023.5 ug/L	5023.5 ppb	23:23:10
3	Fe 238.204 Radial†	406.9	402.5	5048.1 ug/L	5048.1 ppb	23:23:10
3	K 766.490 Radial†	27032.1	24532.4	4891.1 ug/L	4891.1 ppb	23:22:50
3	Mg 279.077 IEC†	114.3	114.9	5017.8 ug/L	5017.8 ppb	23:23:10
3	Na 589.592 Radial†	24651.7	25389.4	9970.8 ug/L	9970.8 ppb	23:22:50
3	Sr 421.552†	56313.6	56875.9	484.29 ug/L	484.29 ppb	23:22:50
3	Sc 361.383	842604.3	842604.3	100.33 %		23:24:20
3	Y 371.029	709818.2	709818.2	99.126 %		23:24:20
3	Ag 328.068†	100834.1	100251.8	508.49 ug/L	508.49 ppb	23:24:25
3	As 188.979†	896.2	914.1	494.35 ug/L	494.35 ppb	23:24:45
3	B 249.677†	17440.4	17633.6	482.43 ug/L	482.43 ppb	23:24:25
3	Ba 233.527†	52842.0	52651.1	494.82 ug/L	494.82 ppb	23:24:25
3	Be 313.107†	1214791.6	1215091.2	494.46 ug/L	494.46 ppb	23:24:20
3	Cd 226.502†	35345.5	35396.6	499.13 ug/L	499.13 ppb	23:24:25
3	Co 228.616†	19563.5	19538.6	508.60 ug/L	508.60 ppb	23:24:25
3	Cr 267.716†	38105.4	37886.1	494.28 ug/L	494.28 ppb	23:24:25
3	Cu 324.752†	160043.0	153168.2	496.63 ug/L	496.63 ppb	23:24:25
3	Mn 257.610†	382288.1	380588.5	499.64 ug/L	499.64 ppb	23:24:20
3	Mo 202.031†	5681.5	5648.8	497.08 ug/L	497.08 ppb	23:24:45
3	Ni 231.604†	16180.6	16034.2	500.36 ug/L	500.36 ppb	23:24:25
3	P 214.914†	3627.2	3447.1	2380.9 ug/L	2380.9 ppb	23:24:45
3	Pb 220.353†	3222.0	3270.3	494.43 ug/L	494.43 ppb	23:24:45
3	S 181.975 Axial†	595.7	569.4	997.04 ug/L	997.04 ppb	23:24:45
3	Sb 206.836†	1222.6	1192.0	524.32 ug/L	524.32 ppb	23:24:45
3	Se 196.026†	600.9	615.9	509.15 ug/L	509.15 ppb	23:24:45
3	Si 251.611†	68136.5	67388.8	2503.0 ug/L	2503.0 ppb	23:24:25
3	Sn 189.927†	2247.0	2236.6	495.96 ug/L	495.96 ppb	23:24:45
3	Ti 334.940†	288521.9	288664.0	496.50 ug/L	496.50 ppb	23:24:25
3	Tl 190.801†	1237.1	1258.2	489.80 ug/L	489.80 ppb	23:24:45
3	U 409.014†	15865.1	17848.5	523.50 ug/L	523.50 ppb	23:24:25
3	V 292.402†	63178.2	64399.6	503.13 ug/L	503.13 ppb	23:24:25
3	Zn 213.857†	42580.9	41835.6	492.38 ug/L	492.38 ppb	23:24:25
3	SiO2†	67620.8	66846.8	5327.2 ug/L	5327.2 ppb	23:25:00

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838662.4	99.858 %	0.9079			0.91%
Sc Radial	3979.2	98.6 %	0.24			0.24%
Y 371.029	705758.6	98.559 %	0.9091			0.92%
Y RADIAL	4419.1	97.81 %	2.020			2.07%
Ag 328.068†	100201.1	508.23 ug/L	5.923	508.23 ppb	5.923	1.17%
QC value within limits for Ag 328.068 Recovery = 101.65%						
Al 396.153Radial†	4581.9	4859.0 ug/L	68.02	4859.0 ppb	68.02	1.40%
QC value within limits for Al 396.153Radial Recovery = 97.18%						
As 188.979†	912.3	493.34 ug/L	3.486	493.34 ppb	3.486	0.71%
QC value within limits for As 188.979 Recovery = 98.67%						
B 249.677†	17598.2	481.46 ug/L	7.068	481.46 ppb	7.068	1.47%
QC value within limits for B 249.677 Recovery = 96.29%						
Ba 233.527†	52806.7	496.28 ug/L	5.699	496.28 ppb	5.699	1.15%
QC value within limits for Ba 233.527 Recovery = 99.26%						
Be 313.107†	1215517.1	494.63 ug/L	0.404	494.63 ppb	0.404	0.08%
QC value within limits for Be 313.107 Recovery = 98.93%						
Ca 317.933Radial†	2462.4	5003.0 ug/L	41.11	5003.0 ppb	41.11	0.82%

QC value within limits for Ca 317.933 Radial Recovery = 100.06%							
Cd 226.502†	35458.9	500.00 ug/L	4.801	500.00 ppb	4.801	0.96%	
QC value within limits for Cd 226.502 Recovery = 100.00%							
Co 228.616†	19600.2	510.21 ug/L	4.466	510.21 ppb	4.466	0.88%	
QC value within limits for Co 228.616 Recovery = 102.04%							
Cr 267.716†	37984.6	495.56 ug/L	4.988	495.56 ppb	4.988	1.01%	
QC value within limits for Cr 267.716 Recovery = 99.11%							
Cu 324.752†	152783.0	495.38 ug/L	6.106	495.38 ppb	6.106	1.23%	
QC value within limits for Cu 324.752 Recovery = 99.08%							
Fe 238.204 Radial†	402.3	5045.7 ug/L	31.57	5045.7 ppb	31.57	0.63%	
QC value within limits for Fe 238.204 Radial Recovery = 100.91%							
K 766.490 Radial†	24425.0	4869.7 ug/L	62.49	4869.7 ppb	62.49	1.28%	
QC value within limits for K 766.490 Radial Recovery = 97.39%							
Mg 279.077 IEC†	115.0	5024.3 ug/L	23.52	5024.3 ppb	23.52	0.47%	
QC value within limits for Mg 279.077 IEC Recovery = 100.49%							
Mn 257.610†	381231.4	500.49 ug/L	0.783	500.49 ppb	0.783	0.16%	
QC value within limits for Mn 257.610 Recovery = 100.10%							
Mo 202.031†	5677.0	499.55 ug/L	4.040	499.55 ppb	4.040	0.81%	
QC value within limits for Mo 202.031 Recovery = 99.91%							
Na 589.592 Radial†	25376.4	9965.7 ug/L	86.04	9965.7 ppb	86.04	0.86%	
QC value within limits for Na 589.592 Radial Recovery = 99.66%							
Ni 231.604†	16093.2	502.20 ug/L	4.880	502.20 ppb	4.880	0.97%	
QC value within limits for Ni 231.604 Recovery = 100.44%							
P 214.914†	3459.7	2390.2 ug/L	14.42	2390.2 ppb	14.42	0.60%	
QC value within limits for P 214.914 Recovery = 95.61%							
Pb 220.353†	3289.2	497.28 ug/L	2.847	497.28 ppb	2.847	0.57%	
QC value within limits for Pb 220.353 Recovery = 99.46%							
S 181.975 Axial†	571.2	1000.3 ug/L	8.14	1000.3 ppb	8.14	0.81%	
QC value within limits for S 181.975 Axial Recovery = 100.03%							
Sb 206.836†	1199.1	527.45 ug/L	6.837	527.45 ppb	6.837	1.30%	
QC value within limits for Sb 206.836 Recovery = 105.49%							
Se 196.026†	626.7	517.73 ug/L	7.452	517.73 ppb	7.452	1.44%	
QC value within limits for Se 196.026 Recovery = 103.55%							
Si 251.611†	67517.4	2507.7 ug/L	24.02	2507.7 ppb	24.02	0.96%	
QC value within limits for Si 251.611 Recovery = 100.31%							
Sn 189.927†	2251.9	499.36 ug/L	5.206	499.36 ppb	5.206	1.04%	
QC value within limits for Sn 189.927 Recovery = 99.87%							
Sr 421.552†	56613.5	482.06 ug/L	6.466	482.06 ppb	6.466	1.34%	
QC value within limits for Sr 421.552 Recovery = 96.41%							
Ti 334.940†	288683.8	496.54 ug/L	5.321	496.54 ppb	5.321	1.07%	
QC value within limits for Ti 334.940 Recovery = 99.31%							
Tl 190.801†	1259.4	490.26 ug/L	3.977	490.26 ppb	3.977	0.81%	
QC value within limits for Tl 190.801 Recovery = 98.05%							
U 409.014†	17692.2	518.90 ug/L	9.214	518.90 ppb	9.214	1.78%	
QC value within limits for U 409.014 Recovery = 103.78%							
V 292.402†	64354.5	502.81 ug/L	5.034	502.81 ppb	5.034	1.00%	
QC value within limits for V 292.402 Recovery = 100.56%							
Zn 213.857†	41875.7	492.85 ug/L	5.510	492.85 ppb	5.510	1.12%	
QC value within limits for Zn 213.857 Recovery = 98.57%							
SiO2†	67769.4	5400.8 ug/L	63.79	5400.8 ppb	63.79	1.18%	
QC value within limits for SiO2 Recovery = 101.00%							
All analyte(s) passed QC.							

Sequence No.: 60
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/25/2010 23:27:10
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4063.6	4063.6	101 %			23:29:02
1	Y RADIAL	4381.4	4381.4	96.98 %			23:29:02
1	Al 396.153Radial†	-68.7	11.4	12.209 ug/L		12.209 ppb	23:29:22
1	Ca 317.933Radial†	18.3	0.9	1.9209 ug/L		1.9209 ppb	23:29:22
1	Fe 238.204 Radial†	10.0	0.9	11.361 ug/L		11.361 ppb	23:29:22
1	K 766.490 Radial†	2390.7	-430.1	-85.869 ug/L		-85.869 ppb	23:29:02
1	Mg 279.077 IEC†	2.2	1.5	64.392 ug/L		64.392 ppb	23:29:22
1	Na 589.592 Radial†	-372.8	90.9	35.681 ug/L		35.681 ppb	23:29:02
1	Sr 421.552†	26.0	-44.2	-0.3767 ug/L		-0.3767 ppb	23:29:02
1	Sc 361.383	834128.9	834128.9	99.318 %			23:30:19
1	Y 371.029	710247.4	710247.4	99.186 %			23:30:19
1	Ag 328.068†	230.0	-21.8	-0.1053 ug/L		-0.1053 ppb	23:30:19
1	As 188.979†	-20.0	0.7	0.3929 ug/L		0.3929 ppb	23:30:39
1	B 249.677†	-336.4	-88.6	-2.4340 ug/L		-2.4340 ppb	23:30:39
1	Ba 233.527†	19.4	1.0	0.0112 ug/L		0.0112 ppb	23:30:39
1	Be 313.107†	-4390.0	-157.5	-0.0620 ug/L		-0.0620 ppb	23:30:19
1	Cd 226.502†	-164.6	0.7	0.0087 ug/L		0.0087 ppb	23:30:39
1	Co 228.616†	-63.1	-24.6	-0.6427 ug/L		-0.6427 ppb	23:30:39
1	Cr 267.716†	58.4	-36.2	-0.4693 ug/L		-0.4693 ppb	23:30:39
1	Cu 324.752†	6589.2	281.7	0.9129 ug/L		0.9129 ppb	23:30:19
1	Mn 257.610†	792.2	345.2	0.4515 ug/L		0.4515 ppb	23:30:39
1	Mo 202.031†	11.1	-3.0	-0.2656 ug/L		-0.2656 ppb	23:30:39
1	Ni 231.604†	68.2	-24.9	-0.7780 ug/L		-0.7780 ppb	23:30:39
1	P 214.914†	193.8	26.9	19.180 ug/L		19.180 ppb	23:30:39
1	Pb 220.353†	-46.7	11.8	1.7824 ug/L		1.7824 ppb	23:30:39
1	S 181.975 Axial†	31.2	7.0	12.282 ug/L		12.282 ppb	23:30:39
1	Sb 206.836†	27.8	1.3	0.5567 ug/L		0.5567 ppb	23:30:39
1	Se 196.026†	-19.7	-2.9	-2.2472 ug/L		-2.2472 ppb	23:30:39
1	Si 251.611†	572.2	50.6	1.8889 ug/L		1.8889 ppb	23:30:39
1	Sn 189.927†	3.8	0.8	0.1740 ug/L		0.1740 ppb	23:30:39
1	Ti 334.940†	-594.6	484.7	0.8281 ug/L		0.8281 ppb	23:30:19
1	Tl 190.801†	-25.7	-0.8	-0.3089 ug/L		-0.3089 ppb	23:30:39
1	U 409.014†	-1949.9	71.9	2.1163 ug/L		2.1163 ppb	23:30:19
1	V 292.402†	-1323.6	94.8	0.7302 ug/L		0.7302 ppb	23:30:19
1	Zn 213.857†	668.1	66.2	0.7887 ug/L		0.7887 ppb	23:30:39
1	SiO2†	622.1	73.0	5.8387 ug/L		5.8387 ppb	23:31:50
2	Sc Radial	4062.5	4062.5	101 %			23:29:27
2	Y RADIAL	4404.9	4404.9	97.50 %			23:29:27
2	Al 396.153Radial†	-31.7	48.2	51.344 ug/L		51.344 ppb	23:29:47
2	Ca 317.933Radial†	25.9	8.5	17.279 ug/L		17.279 ppb	23:29:47
2	Fe 238.204 Radial†	16.0	6.9	86.584 ug/L		86.584 ppb	23:29:47
2	K 766.490 Radial†	2529.7	-291.4	-58.183 ug/L		-58.183 ppb	23:29:27
2	Mg 279.077 IEC†	2.3	1.6	68.793 ug/L		68.793 ppb	23:29:47
2	Na 589.592 Radial†	-444.7	19.3	7.5979 ug/L		7.5979 ppb	23:29:27
2	Sr 421.552†	21.9	-48.3	-0.4117 ug/L		-0.4117 ppb	23:29:27
2	Sc 361.383	821669.6	821669.6	97.835 %			23:30:44
2	Y 371.029	700250.7	700250.7	97.790 %			23:30:44
2	Ag 328.068†	128.5	-122.1	-0.5914 ug/L		-0.5914 ppb	23:30:44
2	As 188.979†	-18.2	2.2	1.2039 ug/L		1.2039 ppb	23:31:04
2	B 249.677†	-343.5	-100.9	-2.7880 ug/L		-2.7880 ppb	23:31:04
2	Ba 233.527†	-1.0	-19.5	-0.1807 ug/L		-0.1807 ppb	23:31:04
2	Be 313.107†	-4488.7	-325.3	-0.1317 ug/L		-0.1317 ppb	23:30:44
2	Cd 226.502†	-174.1	-11.6	-0.1720 ug/L		-0.1720 ppb	23:31:04
2	Co 228.616†	-43.3	-5.4	-0.1412 ug/L		-0.1412 ppb	23:31:04
2	Cr 267.716†	88.1	-5.0	-0.0564 ug/L		-0.0564 ppb	23:31:04
2	Cu 324.752†	6445.8	235.7	0.7680 ug/L		0.7680 ppb	23:30:44
2	Mn 257.610†	840.3	406.5	0.5390 ug/L		0.5390 ppb	23:31:04
2	Mo 202.031†	17.3	3.5	0.3129 ug/L		0.3129 ppb	23:31:04
2	Ni 231.604†	75.7	-16.2	-0.5066 ug/L		-0.5066 ppb	23:31:04

2	P 214.914†	198.9	35.1	25.002 ug/L	25.002 ppb	23:31:04
2	Pb 220.353†	-54.9	2.7	0.4100 ug/L	0.4100 ppb	23:31:04
2	S 181.975 Axial†	32.3	8.6	15.113 ug/L	15.113 ppb	23:31:04
2	Sb 206.836†	35.8	9.9	4.2252 ug/L	4.2252 ppb	23:31:04
2	Se 196.026†	-25.4	-9.0	-6.8957 ug/L	-6.8957 ppb	23:31:04
2	Si 251.611†	601.8	89.7	3.3353 ug/L	3.3353 ppb	23:31:04
2	Sn 189.927†	5.7	2.7	0.6040 ug/L	0.6040 ppb	23:31:04
2	Ti 334.940†	-969.7	92.2	0.1545 ug/L	0.1545 ppb	23:30:44
2	Tl 190.801†	-30.8	-6.4	-2.4737 ug/L	-2.4737 ppb	23:31:04
2	U 409.014†	-1935.2	57.1	1.6710 ug/L	1.6710 ppb	23:30:44
2	V 292.402†	-1428.7	-32.8	-0.2564 ug/L	-0.2564 ppb	23:30:44
2	Zn 213.857†	655.4	63.5	0.7436 ug/L	0.7436 ppb	23:31:04
2	SiO2†	589.8	49.5	3.9426 ug/L	3.9426 ppb	23:32:10
3	Sc Radial	4177.6	4177.6	104 %		23:29:52
3	Y RADIAL	4495.7	4495.7	99.51 %		23:29:52
3	Al 396.153Radial†	-63.0	18.8	20.070 ug/L	20.070 ppb	23:30:12
3	Ca 317.933Radial†	20.2	2.3	4.7125 ug/L	4.7125 ppb	23:30:12
3	Fe 238.204 Radial†	13.3	3.9	48.367 ug/L	48.367 ppb	23:30:12
3	K 766.490 Radial†	2443.5	-443.9	-88.616 ug/L	-88.616 ppb	23:29:52
3	Mg 279.077 IEC†	2.1	1.3	55.893 ug/L	55.893 ppb	23:30:12
3	Na 589.592 Radial†	-441.8	34.2	13.450 ug/L	13.450 ppb	23:29:52
3	Sr 421.552†	20.1	-50.6	-0.4308 ug/L	-0.4308 ppb	23:29:52
3	Sc 361.383	828240.5	828240.5	98.617 %		23:31:09
3	Y 371.029	705568.3	705568.3	98.533 %		23:31:09
3	Ag 328.068†	96.3	-155.8	-0.7730 ug/L	-0.7730 ppb	23:31:09
3	As 188.979†	-26.5	-6.0	-3.2254 ug/L	-3.2254 ppb	23:31:29
3	B 249.677†	-340.4	-95.0	-2.6190 ug/L	-2.6190 ppb	23:31:29
3	Ba 233.527†	10.6	-7.8	-0.0711 ug/L	-0.0711 ppb	23:31:29
3	Be 313.107†	-4430.6	-230.0	-0.0934 ug/L	-0.0934 ppb	23:31:09
3	Cd 226.502†	-168.2	-4.2	-0.0637 ug/L	-0.0637 ppb	23:31:29
3	Co 228.616†	-49.5	-11.3	-0.2939 ug/L	-0.2939 ppb	23:31:29
3	Cr 267.716†	84.7	-9.0	-0.1139 ug/L	-0.1139 ppb	23:31:29
3	Cu 324.752†	6468.5	206.4	0.6699 ug/L	0.6699 ppb	23:31:09
3	Mn 257.610†	736.4	294.3	0.3887 ug/L	0.3887 ppb	23:31:29
3	Mo 202.031†	16.2	2.2	0.1985 ug/L	0.1985 ppb	23:31:29
3	Ni 231.604†	64.0	-28.7	-0.8962 ug/L	-0.8962 ppb	23:31:29
3	P 214.914†	192.7	27.2	19.356 ug/L	19.356 ppb	23:31:29
3	Pb 220.353†	-51.3	6.8	1.0198 ug/L	1.0198 ppb	23:31:29
3	S 181.975 Axial†	30.7	6.8	11.892 ug/L	11.892 ppb	23:31:29
3	Sb 206.836†	28.7	2.5	1.0771 ug/L	1.0771 ppb	23:31:29
3	Se 196.026†	-25.6	-9.0	-7.0151 ug/L	-7.0151 ppb	23:31:29
3	Si 251.611†	584.9	67.6	2.5163 ug/L	2.5163 ppb	23:31:29
3	Sn 189.927†	4.3	1.3	0.2784 ug/L	0.2784 ppb	23:31:29
3	Ti 334.940†	-1060.0	8.4	0.0090 ug/L	0.0090 ppb	23:31:09
3	Tl 190.801†	-26.9	-2.2	-0.8409 ug/L	-0.8409 ppb	23:31:29
3	U 409.014†	-1885.2	123.5	3.6296 ug/L	3.6296 ppb	23:31:09
3	V 292.402†	-1395.4	12.6	0.1007 ug/L	0.1007 ppb	23:31:09
3	Zn 213.857†	650.2	52.9	0.6260 ug/L	0.6260 ppb	23:31:29
3	SiO2†	617.6	72.9	5.8193 ug/L	5.8193 ppb	23:32:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	828013.0	98.590 %		0.7421			0.75%
Sc Radial	4101.2	102 %		1.6			1.61%
Y 371.029	705355.5	98.503 %		0.6985			0.71%
Y RADIAL	4427.3	97.99 %		1.336			1.36%
Ag 328.068†	-99.9	-0.4899 ug/L		0.34527	-0.4899 ppb	0.34527	70.48%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	26.2	27.875 ug/L		20.7018	27.875 ppb	20.7018	74.27%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.0	-0.5429 ug/L		2.35826	-0.5429 ppb	2.35826	434.40%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-94.8	-2.6137 ug/L		0.17703	-2.6137 ppb	0.17703	6.77%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-8.8	-0.0802 ug/L		0.09628	-0.0802 ppb	0.09628	120.02%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-237.6	-0.0957 ug/L		0.03491	-0.0957 ppb	0.03491	36.47%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	3.9	7.9708 ug/L		8.18112	7.9708 ppb	8.18112	102.64%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-5.0	-0.0757 ug/L	0.09093	-0.0757 ppb	0.09093 120.20%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-13.8	-0.3593 ug/L	0.25703	-0.3593 ppb	0.25703 71.54%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-16.7	-0.2132 ug/L	0.22367	-0.2132 ppb	0.22367 104.90%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	241.3	0.7836 ug/L	0.12223	0.7836 ppb	0.12223 15.60%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	3.9	48.771 ug/L	37.6133	48.771 ppb	37.6133 77.12%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-388.4	-77.556 ug/L	16.8337	-77.556 ppb	16.8337 21.71%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.4	63.026 ug/L	6.5577	63.026 ppb	6.5577 10.40%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	348.7	0.4597 ug/L	0.07552	0.4597 ppb	0.07552 16.43%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	0.9	0.0820 ug/L	0.30637	0.0820 ppb	0.30637 373.82%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	48.2	18.910 ug/L	14.8164	18.910 ppb	14.8164 78.35%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-23.3	-0.7269 ug/L	0.19971	-0.7269 ppb	0.19971 27.47%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	29.7	21.179 ug/L	3.3117	21.179 ppb	3.3117 15.64%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	7.1	1.0707 ug/L	0.68765	1.0707 ppb	0.68765 64.22%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	7.5	13.096 ug/L	1.7579	13.096 ppb	1.7579 13.42%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	4.6	1.9530 ug/L	1.98493	1.9530 ppb	1.98493 101.63%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-7.0	-5.3860 ug/L	2.71896	-5.3860 ppb	2.71896 50.48%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	69.3	2.5802 ug/L	0.72531	2.5802 ppb	0.72531 28.11%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	1.6	0.3521 ug/L	0.22427	0.3521 ppb	0.22427 63.69%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-47.7	-0.4064 ug/L	0.02743	-0.4064 ppb	0.02743 6.75%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	195.1	0.3306 ug/L	0.43699	0.3306 ppb	0.43699 132.20%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-3.1	-1.2078 ug/L	1.12807	-1.2078 ppb	1.12807 93.40%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	84.2	2.4723 ug/L	1.02668	2.4723 ppb	1.02668 41.53%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	24.9	0.1915 ug/L	0.49953	0.1915 ppb	0.49953 260.83%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	60.9	0.7195 ug/L	0.08399	0.7195 ppb	0.08399 11.67%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	65.1	5.2002 ug/L	1.08914	5.2002 ppb	1.08914 20.94%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 69

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/26/2010 00:31:46

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	4031.0	4031.0	99.9 %		00:33:58
1	Y RADIAL	4461.7	4461.7	98.75 %		00:33:38
1	Al 396.153Radial†	4275.1	4357.7	4620.2 ug/L	4620.2 ppb	00:33:38
1	Ca 317.933Radial†	2439.0	2423.5	4923.9 ug/L	4923.9 ppb	00:33:58
1	Fe 238.204 Radial†	410.2	401.5	5035.9 ug/L	5035.9 ppb	00:33:58
1	K 766.490 Radial†	26383.1	23598.1	4704.6 ug/L	4704.6 ppb	00:33:38
1	Mg 279.077 IEC†	114.3	113.7	4965.9 ug/L	4965.9 ppb	00:33:58
1	Na 589.592 Radial†	25290.7	25769.1	10120 ug/L	10120 ppb	00:33:38
1	Sr 421.552†	55619.4	55587.9	473.33 ug/L	473.33 ppb	00:33:38
1	Sc 361.383	843174.0	843174.0	100.40 %		00:34:56
1	Y 371.029	708828.2	708828.2	98.988 %		00:34:56
1	Ag 328.068†	100476.0	99827.1	506.34 ug/L	506.34 ppb	00:35:01
1	As 188.979†	885.5	902.9	488.31 ug/L	488.31 ppb	00:35:21
1	B 249.677†	17331.6	17513.6	479.14 ug/L	479.14 ppb	00:35:01
1	Ba 233.527†	52801.8	52575.5	494.11 ug/L	494.11 ppb	00:35:01
1	Be 313.107†	1205411.1	1204929.5	490.33 ug/L	490.33 ppb	00:34:56
1	Cd 226.502†	35362.9	35390.1	499.04 ug/L	499.04 ppb	00:35:01
1	Co 228.616†	19585.2	19547.1	508.82 ug/L	508.82 ppb	00:35:01
1	Cr 267.716†	38040.4	37795.7	493.10 ug/L	493.10 ppb	00:35:01
1	Cu 324.752†	159076.9	152098.0	493.16 ug/L	493.16 ppb	00:35:01
1	Mn 257.610†	380414.6	378464.9	496.86 ug/L	496.86 ppb	00:34:56
1	Mo 202.031†	5661.4	5624.9	494.97 ug/L	494.97 ppb	00:35:21
1	Ni 231.604†	16221.2	16063.7	501.28 ug/L	501.28 ppb	00:35:01
1	P 214.914†	3616.8	3434.4	2372.4 ug/L	2372.4 ppb	00:35:21
1	Pb 220.353†	3211.7	3257.9	492.50 ug/L	492.50 ppb	00:35:21
1	S 181.975 Axial†	591.3	564.5	988.67 ug/L	988.67 ppb	00:35:21
1	Sb 206.836†	1227.8	1196.3	526.14 ug/L	526.14 ppb	00:35:21
1	Se 196.026†	605.1	619.6	511.98 ug/L	511.98 ppb	00:35:21
1	Si 251.611†	68067.8	67274.4	2498.7 ug/L	2498.7 ppb	00:35:01
1	Sn 189.927†	2256.7	2244.8	497.75 ug/L	497.75 ppb	00:35:21
1	Ti 334.940†	287656.5	287607.7	494.68 ug/L	494.68 ppb	00:35:01
1	Tl 190.801†	1232.1	1252.3	487.50 ug/L	487.50 ppb	00:35:21
1	U 409.014†	15769.3	17742.5	520.39 ug/L	520.39 ppb	00:35:01
1	V 292.402†	63044.2	64223.6	501.74 ug/L	501.74 ppb	00:35:01
1	Zn 213.857†	42472.3	41698.7	490.76 ug/L	490.76 ppb	00:35:01
1	SiO2†	66937.9	66121.1	5269.3 ug/L	5269.3 ppb	00:36:28
2	Sc Radial	3981.0	3981.0	98.7 %		00:34:23
2	Y RADIAL	4503.5	4503.5	99.68 %		00:34:03
2	Al 396.153Radial†	4533.7	4673.6	4956.6 ug/L	4956.6 ppb	00:34:03
2	Ca 317.933Radial†	2440.5	2455.7	4989.4 ug/L	4989.4 ppb	00:34:23
2	Fe 238.204 Radial†	409.8	406.3	5095.6 ug/L	5095.6 ppb	00:34:23
2	K 766.490 Radial†	27216.1	24774.3	4939.2 ug/L	4939.2 ppb	00:34:03
2	Mg 279.077 IEC†	112.4	113.2	4944.8 ug/L	4944.8 ppb	00:34:23
2	Na 589.592 Radial†	26024.5	26831.0	10537 ug/L	10537 ppb	00:34:03
2	Sr 421.552†	57736.2	58432.9	497.55 ug/L	497.55 ppb	00:34:03
2	Sc 361.383	835269.9	835269.9	99.454 %		00:35:27
2	Y 371.029	703430.2	703430.2	98.234 %		00:35:27
2	Ag 328.068†	100569.1	100867.8	511.62 ug/L	511.62 ppb	00:35:32
2	As 188.979†	896.2	922.0	498.59 ug/L	498.59 ppb	00:35:52
2	B 249.677†	17342.3	17687.6	483.90 ug/L	483.90 ppb	00:35:32
2	Ba 233.527†	52964.5	53236.7	500.32 ug/L	500.32 ppb	00:35:32
2	Be 313.107†	1192126.3	1202933.6	489.53 ug/L	489.53 ppb	00:35:27
2	Cd 226.502†	35460.2	35821.2	505.11 ug/L	505.11 ppb	00:35:32
2	Co 228.616†	19544.9	19691.1	512.57 ug/L	512.57 ppb	00:35:32
2	Cr 267.716†	38139.2	38253.6	499.07 ug/L	499.07 ppb	00:35:32
2	Cu 324.752†	159323.1	153845.0	498.83 ug/L	498.83 ppb	00:35:32
2	Mn 257.610†	376191.2	377804.0	496.00 ug/L	496.00 ppb	00:35:27
2	Mo 202.031†	5671.5	5688.4	500.56 ug/L	500.56 ppb	00:35:52
2	Ni 231.604†	16221.6	16217.1	506.07 ug/L	506.07 ppb	00:35:32

2	P 214.914†	3619.0	3470.6	2397.4 ug/L	2397.4 ppb	00:35:52
2	Pb 220.353†	3206.8	3283.2	496.39 ug/L	496.39 ppb	00:35:52
2	S 181.975 Axial†	594.6	573.4	1004.2 ug/L	1004.2 ppb	00:35:52
2	Sb 206.836†	1213.6	1193.6	525.12 ug/L	525.12 ppb	00:35:52
2	Se 196.026†	608.0	628.3	519.21 ug/L	519.21 ppb	00:35:52
2	Si 251.611†	68182.0	68030.8	2526.8 ug/L	2526.8 ppb	00:35:32
2	Sn 189.927†	2238.6	2247.8	498.44 ug/L	498.44 ppb	00:35:52
2	Ti 334.940†	288155.2	290820.5	500.21 ug/L	500.21 ppb	00:35:32
2	Tl 190.801†	1228.6	1260.4	490.67 ug/L	490.67 ppb	00:35:52
2	U 409.014†	15712.3	17833.8	523.05 ug/L	523.05 ppb	00:35:32
2	V 292.402†	63056.1	64829.8	506.48 ug/L	506.48 ppb	00:35:32
2	Zn 213.857†	42536.8	42163.9	496.24 ug/L	496.24 ppb	00:35:32
2	SiO2†	68709.0	68532.8	5461.8 ug/L	5461.8 ppb	00:36:33
3	Sc Radial	4024.3	4024.3	99.8 %		00:34:49
3	Y RADIAL	4450.1	4450.1	98.50 %		00:34:29
3	Al 396.153Radial†	4481.8	4572.0	4848.7 ug/L	4848.7 ppb	00:34:29
3	Ca 317.933Radial†	2468.9	2457.5	4993.1 ug/L	4993.1 ppb	00:34:49
3	Fe 238.204 Radial†	418.3	410.3	5145.7 ug/L	5145.7 ppb	00:34:49
3	K 766.490 Radial†	27025.8	24286.3	4841.8 ug/L	4841.8 ppb	00:34:29
3	Mg 279.077 IEC†	118.5	118.1	5158.7 ug/L	5158.7 ppb	00:34:49
3	Na 589.592 Radial†	25862.0	26383.9	10361 ug/L	10361 ppb	00:34:29
3	Sr 421.552†	57035.9	57100.4	486.20 ug/L	486.20 ppb	00:34:29
3	Sc 361.383	845317.1	845317.1	100.65 %		00:35:58
3	Y 371.029	712047.8	712047.8	99.438 %		00:35:58
3	Ag 328.068†	100261.2	99360.0	504.01 ug/L	504.01 ppb	00:36:03
3	As 188.979†	895.5	910.5	492.40 ug/L	492.40 ppb	00:36:23
3	B 249.677†	17276.4	17415.0	476.42 ug/L	476.42 ppb	00:36:03
3	Ba 233.527†	52691.9	52332.9	491.84 ug/L	491.84 ppb	00:36:03
3	Be 313.107†	1206256.5	1202725.4	489.43 ug/L	489.43 ppb	00:35:58
3	Cd 226.502†	35195.7	35134.7	495.42 ug/L	495.42 ppb	00:36:03
3	Co 228.616†	19523.2	19436.0	505.93 ug/L	505.93 ppb	00:36:03
3	Cr 267.716†	38007.6	37667.0	491.43 ug/L	491.43 ppb	00:36:03
3	Cu 324.752†	158628.9	151251.2	490.42 ug/L	490.42 ppb	00:36:03
3	Mn 257.610†	379512.4	376607.9	494.42 ug/L	494.42 ppb	00:35:58
3	Mo 202.031†	5674.6	5623.7	494.87 ug/L	494.87 ppb	00:36:23
3	Ni 231.604†	16213.0	16014.6	499.75 ug/L	499.75 ppb	00:36:03
3	P 214.914†	3626.2	3434.6	2373.0 ug/L	2373.0 ppb	00:36:23
3	Pb 220.353†	3207.8	3245.9	490.73 ug/L	490.73 ppb	00:36:23
3	S 181.975 Axial†	598.9	570.7	999.40 ug/L	999.40 ppb	00:36:23
3	Sb 206.836†	1229.1	1194.5	525.31 ug/L	525.31 ppb	00:36:23
3	Se 196.026†	614.4	627.4	518.56 ug/L	518.56 ppb	00:36:23
3	Si 251.611†	67750.9	66787.7	2480.6 ug/L	2480.6 ppb	00:36:03
3	Sn 189.927†	2245.4	2227.8	494.00 ug/L	494.00 ppb	00:36:23
3	Ti 334.940†	287035.4	286264.2	492.36 ug/L	492.36 ppb	00:36:03
3	Tl 190.801†	1237.3	1254.4	488.29 ug/L	488.29 ppb	00:36:23
3	U 409.014†	15745.0	17678.4	518.49 ug/L	518.49 ppb	00:36:03
3	V 292.402†	62897.1	63918.3	499.37 ug/L	499.37 ppb	00:36:03
3	Zn 213.857†	42375.8	41495.5	488.34 ug/L	488.34 ppb	00:36:03
3	SiO2†	68267.2	67272.7	5361.3 ug/L	5361.3 ppb	00:36:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841253.7	100.17 %	0.630			0.63%
Sc Radial	4012.1	99.5 %	0.67			0.68%
Y 371.029	708102.1	98.887 %	0.6081			0.61%
Y RADIAL	4471.8	98.98 %	0.621			0.63%
Ag 328.068†	100018.3	507.32 ug/L	3.900	507.32 ppb	3.900	0.77%
QC value within limits for Ag 328.068 Recovery = 101.46%						
Al 396.153Radial†	4534.4	4808.5 ug/L	171.76	4808.5 ppb	171.76	3.57%
QC value within limits for Al 396.153Radial Recovery = 96.17%						
As 188.979†	911.8	493.10 ug/L	5.175	493.10 ppb	5.175	1.05%
QC value within limits for As 188.979 Recovery = 98.62%						
B 249.677†	17538.7	479.82 ug/L	3.788	479.82 ppb	3.788	0.79%
QC value within limits for B 249.677 Recovery = 95.96%						
Ba 233.527†	52715.0	495.42 ug/L	4.393	495.42 ppb	4.393	0.89%
QC value within limits for Ba 233.527 Recovery = 99.08%						
Be 313.107†	1203529.5	489.76 ug/L	0.493	489.76 ppb	0.493	0.10%
QC value within limits for Be 313.107 Recovery = 97.95%						
Ca 317.933Radial†	2445.6	4968.8 ug/L	38.95	4968.8 ppb	38.95	0.78%

QC value within limits for Ca 317.933 Radial Recovery = 99.38%

Cd 226.502†	35448.7	499.86 ug/L	4.898	499.86 ppb	4.898	0.98%
QC value within limits for Cd 226.502 Recovery = 99.97%						
Co 228.616†	19558.1	509.10 ug/L	3.329	509.10 ppb	3.329	0.65%
QC value within limits for Co 228.616 Recovery = 101.82%						
Cr 267.716†	37905.4	494.53 ug/L	4.017	494.53 ppb	4.017	0.81%
QC value within limits for Cr 267.716 Recovery = 98.91%						
Cu 324.752†	152398.1	494.14 ug/L	4.287	494.14 ppb	4.287	0.87%
QC value within limits for Cu 324.752 Recovery = 98.83%						
Fe 238.204 Radial†	406.0	5092.4 ug/L	55.01	5092.4 ppb	55.01	1.08%
QC value within limits for Fe 238.204 Radial Recovery = 101.85%						
K 766.490 Radial†	24219.6	4828.5 ug/L	117.87	4828.5 ppb	117.87	2.44%
QC value within limits for K 766.490 Radial Recovery = 96.57%						
Mg 279.077 IEC†	115.0	5023.2 ug/L	117.90	5023.2 ppb	117.90	2.35%
QC value within limits for Mg 279.077 IEC Recovery = 100.46%						
Mn 257.610†	377625.6	495.76 ug/L	1.234	495.76 ppb	1.234	0.25%
QC value within limits for Mn 257.610 Recovery = 99.15%						
Mo 202.031†	5645.7	496.80 ug/L	3.255	496.80 ppb	3.255	0.66%
QC value within limits for Mo 202.031 Recovery = 99.36%						
Na 589.592 Radial†	26328.0	10339 ug/L	209.4	10339 ppb	209.4	2.03%
QC value within limits for Na 589.592 Radial Recovery = 103.39%						
Ni 231.604†	16098.5	502.37 ug/L	3.295	502.37 ppb	3.295	0.66%
QC value within limits for Ni 231.604 Recovery = 100.47%						
P 214.914†	3446.5	2380.9 ug/L	14.25	2380.9 ppb	14.25	0.60%
QC value within limits for P 214.914 Recovery = 95.24%						
Pb 220.353†	3262.3	493.21 ug/L	2.898	493.21 ppb	2.898	0.59%
QC value within limits for Pb 220.353 Recovery = 98.64%						
S 181.975 Axial†	569.6	997.42 ug/L	7.945	997.42 ppb	7.945	0.80%
QC value within limits for S 181.975 Axial Recovery = 99.74%						
Sb 206.836†	1194.8	525.53 ug/L	0.538	525.53 ppb	0.538	0.10%
QC value within limits for Sb 206.836 Recovery = 105.11%						
Se 196.026†	625.1	516.59 ug/L	4.003	516.59 ppb	4.003	0.77%
QC value within limits for Se 196.026 Recovery = 103.32%						
Si 251.611†	67364.3	2502.1 ug/L	23.29	2502.1 ppb	23.29	0.93%
QC value within limits for Si 251.611 Recovery = 100.08%						
Sn 189.927†	2240.1	496.73 ug/L	2.389	496.73 ppb	2.389	0.48%
QC value within limits for Sn 189.927 Recovery = 99.35%						
Sr 421.552†	57040.4	485.69 ug/L	12.121	485.69 ppb	12.121	2.50%
QC value within limits for Sr 421.552 Recovery = 97.14%						
Ti 334.940†	288230.8	495.75 ug/L	4.034	495.75 ppb	4.034	0.81%
QC value within limits for Ti 334.940 Recovery = 99.15%						
Tl 190.801†	1255.7	488.82 ug/L	1.649	488.82 ppb	1.649	0.34%
QC value within limits for Tl 190.801 Recovery = 97.76%						
U 409.014†	17751.5	520.65 ug/L	2.291	520.65 ppb	2.291	0.44%
QC value within limits for U 409.014 Recovery = 104.13%						
V 292.402†	64323.9	502.53 ug/L	3.620	502.53 ppb	3.620	0.72%
QC value within limits for V 292.402 Recovery = 100.51%						
Zn 213.857†	41786.1	491.78 ug/L	4.046	491.78 ppb	4.046	0.82%
QC value within limits for Zn 213.857 Recovery = 98.36%						
SiO2†	67308.9	5364.1 ug/L	96.30	5364.1 ppb	96.30	1.80%
QC value within limits for SiO2 Recovery = 100.31%						

All analyte(s) passed QC.

Sequence No.: 70

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/26/2010 00:38:48

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	4019.2	4019.2	99.6 %		00:41:00
1	Y RADIAL	4405.9	4405.9	97.52 %		00:40:40
1	Al 396.153Radial†	-63.4	16.0	17.043 ug/L	17.043 ppb	00:41:00
1	Ca 317.933Radial†	21.1	4.0	8.1467 ug/L	8.1467 ppb	00:41:00
1	Fe 238.204 Radial†	16.3	7.4	92.542 ug/L	92.542 ppb	00:41:00
1	K 766.490 Radial†	2447.7	-346.7	-69.214 ug/L	-69.214 ppb	00:40:40
1	Mg 279.077 IEC†	3.4	2.7	117.49 ug/L	117.49 ppb	00:41:00
1	Na 589.592 Radial†	-417.8	41.6	16.332 ug/L	16.332 ppb	00:40:40
1	Sr 421.552†	75.1	5.4	0.0456 ug/L	0.0456 ppb	00:40:40
1	Sc 361.383	825989.4	825989.4	98.349 %		00:41:57
1	Y 371.029	703158.4	703158.4	98.196 %		00:41:57
1	Ag 328.068†	121.7	-129.6	-0.6260 ug/L	-0.6260 ppb	00:41:57
1	As 188.979†	-25.0	-4.6	-2.4471 ug/L	-2.4471 ppb	00:42:17
1	B 249.677†	-359.8	-115.7	-3.1934 ug/L	-3.1934 ppb	00:42:17
1	Ba 233.527†	26.6	8.5	0.0844 ug/L	0.0844 ppb	00:42:17
1	Be 313.107†	-4540.4	-353.9	-0.1434 ug/L	-0.1434 ppb	00:41:57
1	Cd 226.502†	-173.3	-9.8	-0.1476 ug/L	-0.1476 ppb	00:42:17
1	Co 228.616†	-46.1	-8.0	-0.2111 ug/L	-0.2111 ppb	00:42:17
1	Cr 267.716†	101.5	8.2	0.1158 ug/L	0.1158 ppb	00:42:17
1	Cu 324.752†	6544.2	301.3	0.9795 ug/L	0.9795 ppb	00:41:57
1	Mn 257.610†	980.4	544.4	0.7186 ug/L	0.7186 ppb	00:42:17
1	Mo 202.031†	8.1	-6.0	-0.5182 ug/L	-0.5182 ppb	00:42:17
1	Ni 231.604†	79.9	-12.4	-0.3862 ug/L	-0.3862 ppb	00:42:17
1	P 214.914†	195.0	30.0	21.324 ug/L	21.324 ppb	00:42:17
1	Pb 220.353†	-53.5	4.4	0.6531 ug/L	0.6531 ppb	00:42:17
1	S 181.975 Axial†	27.3	3.3	5.8310 ug/L	5.8310 ppb	00:42:17
1	Sb 206.836†	29.6	3.5	1.4854 ug/L	1.4854 ppb	00:42:17
1	Se 196.026†	-14.9	1.8	1.7176 ug/L	1.7176 ppb	00:42:17
1	Si 251.611†	549.5	33.3	1.2453 ug/L	1.2453 ppb	00:42:17
1	Sn 189.927†	5.5	2.5	0.5462 ug/L	0.5462 ppb	00:42:17
1	Ti 334.940†	-1001.7	64.8	0.1010 ug/L	0.1010 ppb	00:41:57
1	Tl 190.801†	-26.6	-2.0	-0.7609 ug/L	-0.7609 ppb	00:42:17
1	U 409.014†	-1849.5	154.7	4.5402 ug/L	4.5402 ppb	00:41:57
1	V 292.402†	-1316.5	89.0	0.6758 ug/L	0.6758 ppb	00:41:57
1	Zn 213.857†	670.3	75.1	0.8794 ug/L	0.8794 ppb	00:42:17
1	SiO2†	1451.7	922.7	73.730 ug/L	73.730 ppb	00:43:28
2	Sc Radial	4042.2	4042.2	100 %		00:41:25
2	Y RADIAL	4477.5	4477.5	99.10 %		00:41:05
2	Al 396.153Radial†	-65.7	14.1	14.980 ug/L	14.980 ppb	00:41:25
2	Ca 317.933Radial†	22.2	5.0	10.117 ug/L	10.117 ppb	00:41:25
2	Fe 238.204 Radial†	17.1	8.0	100.55 ug/L	100.55 ppb	00:41:25
2	K 766.490 Radial†	2574.2	-234.4	-46.807 ug/L	-46.807 ppb	00:41:05
2	Mg 279.077 IEC†	1.4	0.7	29.645 ug/L	29.645 ppb	00:41:25
2	Na 589.592 Radial†	-402.4	59.3	23.281 ug/L	23.281 ppb	00:41:05
2	Sr 421.552†	46.3	-23.8	-0.2030 ug/L	-0.2030 ppb	00:41:05
2	Sc 361.383	825425.3	825425.3	98.282 %		00:42:22
2	Y 371.029	703215.5	703215.5	98.204 %		00:42:22
2	Ag 328.068†	102.7	-148.9	-0.7208 ug/L	-0.7208 ppb	00:42:22
2	As 188.979†	-25.7	-5.4	-2.8493 ug/L	-2.8493 ppb	00:42:42
2	B 249.677†	-393.2	-149.9	-4.1362 ug/L	-4.1362 ppb	00:42:42
2	Ba 233.527†	14.1	-4.2	-0.0356 ug/L	-0.0356 ppb	00:42:42
2	Be 313.107†	-4534.9	-351.5	-0.1423 ug/L	-0.1423 ppb	00:42:22
2	Cd 226.502†	-164.0	-0.5	-0.0167 ug/L	-0.0167 ppb	00:42:42
2	Co 228.616†	-51.6	-13.6	-0.3562 ug/L	-0.3562 ppb	00:42:42
2	Cr 267.716†	92.0	-1.3	-0.0074 ug/L	-0.0074 ppb	00:42:42
2	Cu 324.752†	6520.5	281.8	0.9176 ug/L	0.9176 ppb	00:42:22
2	Mn 257.610†	1113.8	680.9	0.9021 ug/L	0.9021 ppb	00:42:42
2	Mo 202.031†	14.1	0.2	0.0257 ug/L	0.0257 ppb	00:42:42
2	Ni 231.604†	79.3	-13.0	-0.4045 ug/L	-0.4045 ppb	00:42:42

2	P 214.914†	194.3	29.5	20.944 ug/L	20.944 ppb	00:42:42
2	Pb 220.353†	-54.0	3.9	0.5708 ug/L	0.5708 ppb	00:42:42
2	S 181.975 Axial†	29.3	5.4	9.5032 ug/L	9.5032 ppb	00:42:42
2	Sb 206.836†	27.2	1.1	0.4650 ug/L	0.4650 ppb	00:42:42
2	Se 196.026†	-13.4	3.3	2.9543 ug/L	2.9543 ppb	00:42:42
2	Si 251.611†	674.1	160.4	5.9731 ug/L	5.9731 ppb	00:42:42
2	Sn 189.927†	8.0	5.1	1.1218 ug/L	1.1218 ppb	00:42:42
2	Ti 334.940†	-961.3	105.2	0.1790 ug/L	0.1790 ppb	00:42:22
2	Tl 190.801†	-29.8	-5.2	-2.0091 ug/L	-2.0091 ppb	00:42:42
2	U 409.014†	-1922.5	79.0	2.3136 ug/L	2.3136 ppb	00:42:22
2	V 292.402†	-1375.1	28.4	0.2092 ug/L	0.2092 ppb	00:42:22
2	Zn 213.857†	666.2	71.4	0.8347 ug/L	0.8347 ppb	00:42:42
2	SiO2†	592.1	49.1	3.9232 ug/L	3.9232 ppb	00:43:48
3	Sc Radial	4022.2	4022.2	99.7 %		00:41:50
3	Y RADIAL	4501.5	4501.5	99.63 %		00:41:30
3	Al 396.153Radial†	-59.6	19.9	21.177 ug/L	21.177 ppb	00:41:50
3	Ca 317.933Radial†	24.4	7.3	14.848 ug/L	14.848 ppb	00:41:50
3	Fe 238.204 Radial†	11.6	2.7	33.466 ug/L	33.466 ppb	00:41:50
3	K 766.490 Radial†	2471.3	-324.8	-64.851 ug/L	-64.851 ppb	00:41:30
3	Mg 279.077 IEC†	2.9	2.2	95.719 ug/L	95.719 ppb	00:41:50
3	Na 589.592 Radial†	-398.1	61.6	24.185 ug/L	24.185 ppb	00:41:30
3	Sr 421.552†	73.5	3.7	0.0311 ug/L	0.0311 ppb	00:41:30
3	Sc 361.383	834276.1	834276.1	99.336 %		00:42:47
3	Y 371.029	711682.2	711682.2	99.387 %		00:42:47
3	Ag 328.068†	243.7	-8.1	-0.0327 ug/L	-0.0327 ppb	00:42:47
3	As 188.979†	-31.2	-10.5	-5.6343 ug/L	-5.6343 ppb	00:43:07
3	B 249.677†	-391.1	-143.6	-3.9521 ug/L	-3.9521 ppb	00:43:07
3	Ba 233.527†	23.1	4.8	0.0475 ug/L	0.0475 ppb	00:43:07
3	Be 313.107†	-4529.6	-297.2	-0.1200 ug/L	-0.1200 ppb	00:42:47
3	Cd 226.502†	-176.2	-11.0	-0.1576 ug/L	-0.1576 ppb	00:43:07
3	Co 228.616†	-44.7	-6.1	-0.1593 ug/L	-0.1593 ppb	00:43:07
3	Cr 267.716†	75.2	-19.3	-0.2487 ug/L	-0.2487 ppb	00:43:07
3	Cu 324.752†	6617.0	308.5	0.9984 ug/L	0.9984 ppb	00:42:47
3	Mn 257.610†	1143.9	699.1	0.9167 ug/L	0.9167 ppb	00:43:07
3	Mo 202.031†	15.9	1.8	0.1642 ug/L	0.1642 ppb	00:43:07
3	Ni 231.604†	63.6	-29.6	-0.9235 ug/L	-0.9235 ppb	00:43:07
3	P 214.914†	192.0	25.0	17.792 ug/L	17.792 ppb	00:43:07
3	Pb 220.353†	-49.3	9.2	1.3908 ug/L	1.3908 ppb	00:43:07
3	S 181.975 Axial†	31.1	6.9	12.174 ug/L	12.174 ppb	00:43:07
3	Sb 206.836†	25.8	-0.7	-0.2653 ug/L	-0.2653 ppb	00:43:07
3	Se 196.026†	-12.1	4.8	3.9008 ug/L	3.9008 ppb	00:43:07
3	Si 251.611†	689.1	168.2	6.2618 ug/L	6.2618 ppb	00:43:07
3	Sn 189.927†	9.7	6.7	1.4847 ug/L	1.4847 ppb	00:43:07
3	Ti 334.940†	-917.0	160.2	0.2670 ug/L	0.2670 ppb	00:42:47
3	Tl 190.801†	-35.8	-10.9	-4.2265 ug/L	-4.2265 ppb	00:43:07
3	U 409.014†	-1800.7	222.4	6.5402 ug/L	6.5402 ppb	00:42:47
3	V 292.402†	-1314.3	104.5	0.8169 ug/L	0.8169 ppb	00:42:47
3	Zn 213.857†	654.9	52.8	0.6268 ug/L	0.6268 ppb	00:43:07
3	SiO2†	592.7	43.3	3.4523 ug/L	3.4523 ppb	00:44:08

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	828563.6	98.656 %		0.5900				0.60%
Sc Radial	4027.9	99.9 %		0.31				0.31%
Y 371.029	706018.7	98.596 %		0.6850				0.69%
Y RADIAL	4461.6	98.75 %		1.101				1.12%
Ag 328.068†	-95.5	-0.4598 ug/L		0.37294	-0.4598 ppb		0.37294	81.10%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	16.6	17.733 ug/L		3.1560	17.733 ppb		3.1560	17.80%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-6.8	-3.6436 ug/L		1.73575	-3.6436 ppb		1.73575	47.64%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-136.4	-3.7606 ug/L		0.49973	-3.7606 ppb		0.49973	13.29%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.0	0.0321 ug/L		0.06146	0.0321 ppb		0.06146	191.65%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-334.2	-0.1353 ug/L		0.01320	-0.1353 ppb		0.01320	9.76%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.4	11.037 ug/L		3.4442	11.037 ppb		3.4442	31.20%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-7.1	-0.1073 ug/L	0.07864	-0.1073 ppb	0.07864	73.29%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-9.2	-0.2422 ug/L	0.10207	-0.2422 ppb	0.10207	42.14%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-4.1	-0.0468 ug/L	0.18541	-0.0468 ppb	0.18541	396.52%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	297.2	0.9652 ug/L	0.04223	0.9652 ppb	0.04223	4.37%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	6.0	75.520 ug/L	36.6398	75.520 ppb	36.6398	48.52%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-301.9	-60.291 ug/L	11.8791	-60.291 ppb	11.8791	19.70%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.9	80.951 ug/L	45.7468	80.951 ppb	45.7468	56.51%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	641.5	0.8458 ug/L	0.11038	0.8458 ppb	0.11038	13.05%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.3	-0.1094 ug/L	0.36074	-0.1094 ppb	0.36074	329.60%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	54.2	21.266 ug/L	4.2971	21.266 ppb	4.2971	20.21%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-18.3	-0.5714 ug/L	0.30507	-0.5714 ppb	0.30507	53.39%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	28.2	20.020 ug/L	1.9390	20.020 ppb	1.9390	9.69%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	5.8	0.8716 ug/L	0.45152	0.8716 ppb	0.45152	51.81%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	5.2	9.1694 ug/L	3.18469	9.1694 ppb	3.18469	34.73%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.3	0.5617 ug/L	0.87936	0.5617 ppb	0.87936	156.55%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.3	2.8576 ug/L	1.09484	2.8576 ppb	1.09484	38.31%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	120.6	4.4934 ug/L	2.81662	4.4934 ppb	2.81662	62.68%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.8	1.0509 ug/L	0.47329	1.0509 ppb	0.47329	45.04%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-4.9	-0.0421 ug/L	0.13955	-0.0421 ppb	0.13955	331.53%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	110.1	0.1823 ug/L	0.08304	0.1823 ppb	0.08304	45.55%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-6.0	-2.3322 ug/L	1.75523	-2.3322 ppb	1.75523	75.26%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	152.0	4.4647 ug/L	2.11430	4.4647 ppb	2.11430	47.36%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	73.9	0.5673 ug/L	0.31804	0.5673 ppb	0.31804	56.06%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	66.4	0.7803 ug/L	0.13481	0.7803 ppb	0.13481	17.28%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	338.3	27.035 ug/L	40.4398	27.035 ppb	40.4398	149.58%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 71
 Sample ID: 1202054505|958057|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 92
 Date Collected: 3/26/2010 00:46:17
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202054505|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4056.4	4056.4	101 %		00:48:30
1	Y RADIAL	4467.2	4467.2	98.88 %		00:48:10
1	Al 396.153Radial†	-50.6	29.4	31.280 ug/L	31.280 ppb	00:48:30
1	Ca 317.933Radial†	25.1	7.8	15.818 ug/L	15.818 ppb	00:48:30
1	Fe 238.204 Radial†	17.7	8.6	108.09 ug/L	108.09 ppb	00:48:30
1	K 766.490 Radial†	2392.0	-424.5	-84.781 ug/L	-84.781 ppb	00:48:10
1	Mg 279.077 IEC†	3.2	2.5	107.78 ug/L	107.78 ppb	00:48:30
1	Na 589.592 Radial†	-293.1	169.4	66.536 ug/L	66.536 ppb	00:48:10
1	Sr 421.552†	17.4	-52.7	-0.4490 ug/L	-0.4490 ppb	00:48:10
1	Sc 361.383	826238.0	826238.0	98.379 %		00:49:27
1	Y 371.029	704314.9	704314.9	98.358 %		00:49:27
1	Ag 328.068†	171.3	-79.2	-0.3711 ug/L	-0.3711 ppb	00:49:27
1	As 188.979†	-22.9	-2.4	-1.2748 ug/L	-1.2748 ppb	00:49:47
1	B 249.677†	-415.5	-172.2	-4.7501 ug/L	-4.7501 ppb	00:49:47
1	Ba 233.527†	78.6	61.4	0.5799 ug/L	0.5799 ppb	00:49:47
1	Be 313.107†	-4437.2	-247.6	-0.0976 ug/L	-0.0976 ppb	00:49:27
1	Cd 226.502†	-178.9	-15.5	-0.2278 ug/L	-0.2278 ppb	00:49:47
1	Co 228.616†	-47.9	-9.8	-0.2582 ug/L	-0.2582 ppb	00:49:47
1	Cr 267.716†	190.5	98.6	1.2929 ug/L	1.2929 ppb	00:49:47
1	Cu 324.752†	6645.5	402.2	1.3056 ug/L	1.3056 ppb	00:49:27
1	Mn 257.610†	2232.5	1816.8	2.3901 ug/L	2.3901 ppb	00:49:47
1	Mo 202.031†	18.7	4.8	0.4311 ug/L	0.4311 ppb	00:49:47
1	Ni 231.604†	85.3	-6.9	-0.2166 ug/L	-0.2166 ppb	00:49:47
1	P 214.914†	206.5	41.7	29.696 ug/L	29.696 ppb	00:49:47
1	Pb 220.353†	-59.9	-2.1	-0.3175 ug/L	-0.3175 ppb	00:49:47
1	S 181.975 Axial†	28.2	4.3	7.4757 ug/L	7.4757 ppb	00:49:47
1	Sb 206.836†	21.4	-4.9	-2.0034 ug/L	-2.0034 ppb	00:49:47
1	Se 196.026†	-15.1	1.6	1.5771 ug/L	1.5771 ppb	00:49:47
1	Si 251.611†	2348.7	1861.9	69.320 ug/L	69.320 ppb	00:49:47
1	Sn 189.927†	23.7	21.0	4.6446 ug/L	4.6446 ppb	00:49:47
1	Ti 334.940†	-313.9	764.2	1.3042 ug/L	1.3042 ppb	00:49:27
1	Tl 190.801†	-29.4	-4.8	-1.8236 ug/L	-1.8236 ppb	00:49:47
1	U 409.014†	-1734.6	272.0	7.9891 ug/L	7.9891 ppb	00:49:27
1	V 292.402†	-1349.7	55.6	0.4346 ug/L	0.4346 ppb	00:49:27
1	Zn 213.857†	839.3	246.7	2.9142 ug/L	2.9142 ppb	00:49:47
1	SiO2†	2398.5	1884.6	150.56 ug/L	150.56 ppb	00:50:43
2	Sc Radial	4089.1	4089.1	101 %		00:48:56
2	Y RADIAL	4497.0	4497.0	99.53 %		00:48:35
2	Al 396.153Radial†	-45.6	34.7	36.952 ug/L	36.952 ppb	00:48:56
2	Ca 317.933Radial†	29.4	11.8	23.979 ug/L	23.979 ppb	00:48:56
2	Fe 238.204 Radial†	21.1	11.8	147.68 ug/L	147.68 ppb	00:48:56
2	K 766.490 Radial†	2474.1	-362.6	-72.417 ug/L	-72.417 ppb	00:48:35
2	Mg 279.077 IEC†	5.0	4.2	183.70 ug/L	183.70 ppb	00:48:56
2	Na 589.592 Radial†	-269.2	195.3	76.685 ug/L	76.685 ppb	00:48:35
2	Sr 421.552†	40.9	-29.6	-0.2526 ug/L	-0.2526 ppb	00:48:35
2	Sc 361.383	821056.4	821056.4	97.762 %		00:49:53
2	Y 371.029	699285.8	699285.8	97.655 %		00:49:53
2	Ag 328.068†	44.2	-208.1	-1.0089 ug/L	-1.0089 ppb	00:49:53
2	As 188.979†	-25.8	-5.5	-2.9120 ug/L	-2.9120 ppb	00:50:13
2	B 249.677†	-388.8	-147.5	-4.0780 ug/L	-4.0780 ppb	00:50:13
2	Ba 233.527†	139.9	124.6	1.1729 ug/L	1.1729 ppb	00:50:13
2	Be 313.107†	-4467.8	-307.4	-0.1220 ug/L	-0.1220 ppb	00:49:53
2	Cd 226.502†	-162.2	0.5	-0.0067 ug/L	-0.0067 ppb	00:50:13
2	Co 228.616†	-41.0	-3.0	-0.0828 ug/L	-0.0828 ppb	00:50:13
2	Cr 267.716†	230.9	141.2	1.8519 ug/L	1.8519 ppb	00:50:13
2	Cu 324.752†	6541.9	339.0	1.1031 ug/L	1.1031 ppb	00:49:53
2	Mn 257.610†	3869.7	3505.8	4.6069 ug/L	4.6069 ppb	00:50:13
2	Mo 202.031†	14.6	0.7	0.0734 ug/L	0.0734 ppb	00:50:13
2	Ni 231.604†	86.7	-4.9	-0.1526 ug/L	-0.1526 ppb	00:50:13

2	P 214.914†	194.7	30.9	21.951 ug/L	21.951 ppb	00:50:13
2	Pb 220.353†	-42.7	15.1	2.2622 ug/L	2.2622 ppb	00:50:13
2	S 181.975 Axial†	35.9	12.3	21.560 ug/L	21.560 ppb	00:50:13
2	Sb 206.836†	32.5	6.7	2.8823 ug/L	2.8823 ppb	00:50:13
2	Se 196.026†	-12.9	3.7	3.4089 ug/L	3.4089 ppb	00:50:13
2	Si 251.611†	3361.6	2913.1	108.46 ug/L	108.46 ppb	00:50:13
2	Sn 189.927†	19.6	17.0	3.7620 ug/L	3.7620 ppb	00:50:13
2	Ti 334.940†	-364.5	710.5	1.2069 ug/L	1.2069 ppb	00:49:53
2	Tl 190.801†	-33.7	-9.4	-3.5966 ug/L	-3.5966 ppb	00:50:13
2	U 409.014†	-1756.5	238.4	6.9946 ug/L	6.9946 ppb	00:49:53
2	V 292.402†	-1368.3	27.9	0.2098 ug/L	0.2098 ppb	00:49:53
2	Zn 213.857†	931.5	346.3	4.0920 ug/L	4.0920 ppb	00:50:13
2	SiO2†	2358.2	1858.9	148.51 ug/L	148.51 ppb	00:50:48
3	Sc Radial	4092.1	4092.1	101 %		00:49:21
3	Y RADIAL	4415.0	4415.0	97.72 %		00:49:01
3	Al 396.153Radial†	-40.8	39.4	42.045 ug/L	42.045 ppb	00:49:21
3	Ca 317.933Radial†	26.8	9.2	18.751 ug/L	18.751 ppb	00:49:21
3	Fe 238.204 Radial†	19.9	10.6	132.92 ug/L	132.92 ppb	00:49:21
3	K 766.490 Radial†	2471.7	-366.8	-73.256 ug/L	-73.256 ppb	00:49:01
3	Mg 279.077 IEC†	-2.0	-2.7	-116.44 ug/L	-116.44 ppb	00:49:21
3	Na 589.592 Radial†	-280.5	184.4	72.398 ug/L	72.398 ppb	00:49:01
3	Sr 421.552†	52.9	-17.9	-0.1523 ug/L	-0.1523 ppb	00:49:01
3	Sc 361.383	826266.0	826266.0	98.382 %		00:50:18
3	Y 371.029	703348.0	703348.0	98.223 %		00:50:18
3	Ag 328.068†	94.7	-157.1	-0.7500 ug/L	-0.7500 ppb	00:50:18
3	As 188.979†	-29.7	-9.4	-4.9812 ug/L	-4.9812 ppb	00:50:38
3	B 249.677†	-365.1	-120.9	-3.3432 ug/L	-3.3432 ppb	00:50:38
3	Ba 233.527†	83.2	66.0	0.6250 ug/L	0.6250 ppb	00:50:38
3	Be 313.107†	-4481.3	-292.3	-0.1157 ug/L	-0.1157 ppb	00:50:18
3	Cd 226.502†	-161.6	2.1	0.0162 ug/L	0.0162 ppb	00:50:38
3	Co 228.616†	-58.9	-21.0	-0.5519 ug/L	-0.5519 ppb	00:50:38
3	Cr 267.716†	220.3	128.9	1.6928 ug/L	1.6928 ppb	00:50:38
3	Cu 324.752†	6558.8	313.9	1.0233 ug/L	1.0233 ppb	00:50:18
3	Mn 257.610†	2755.3	2348.1	3.0988 ug/L	3.0988 ppb	00:50:38
3	Mo 202.031†	12.2	-1.8	-0.1453 ug/L	-0.1453 ppb	00:50:38
3	Ni 231.604†	78.7	-13.6	-0.4248 ug/L	-0.4248 ppb	00:50:38
3	P 214.914†	213.2	48.5	34.582 ug/L	34.582 ppb	00:50:38
3	Pb 220.353†	-49.1	8.9	1.3323 ug/L	1.3323 ppb	00:50:38
3	S 181.975 Axial†	43.2	19.5	34.147 ug/L	34.147 ppb	00:50:38
3	Sb 206.836†	37.4	11.4	4.8788 ug/L	4.8788 ppb	00:50:38
3	Se 196.026†	-10.8	5.9	5.1368 ug/L	5.1368 ppb	00:50:38
3	Si 251.611†	2395.4	1909.3	71.093 ug/L	71.093 ppb	00:50:38
3	Sn 189.927†	16.1	13.3	2.9363 ug/L	2.9363 ppb	00:50:38
3	Ti 334.940†	-313.1	765.1	1.3266 ug/L	1.3266 ppb	00:50:18
3	Tl 190.801†	-30.1	-5.5	-2.1155 ug/L	-2.1155 ppb	00:50:38
3	U 409.014†	-1906.5	97.3	2.8444 ug/L	2.8444 ppb	00:50:18
3	V 292.402†	-1291.5	114.8	0.8648 ug/L	0.8648 ppb	00:50:18
3	Zn 213.857†	862.3	270.1	3.1898 ug/L	3.1898 ppb	00:50:38
3	SiO2†	2391.1	1877.0	149.97 ug/L	149.97 ppb	00:50:53

Mean Data: 1202054505|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	824520.1	98.174 %	0.3572			0.36%
Sc Radial	4079.2	101 %	0.5			0.49%
Y 371.029	702316.2	98.079 %	0.3727			0.38%
Y RADIAL	4459.7	98.71 %	0.918			0.93%
Ag 328.068†	-148.2	-0.7100 ug/L	0.32078	-0.7100 ppb	0.32078	45.18%
Al 396.153Radial†	34.5	36.759 ug/L	5.3855	36.759 ppb	5.3855	14.65%
As 188.979†	-5.8	-3.0560 ug/L	1.85742	-3.0560 ppb	1.85742	60.78%
B 249.677†	-146.9	-4.0571 ug/L	0.70365	-4.0571 ppb	0.70365	17.34%
Ba 233.527†	84.0	0.7926 ug/L	0.33012	0.7926 ppb	0.33012	41.65%
Be 313.107†	-282.4	-0.1117 ug/L	0.01270	-0.1117 ppb	0.01270	11.36%
Ca 317.933Radial†	9.6	19.516 ug/L	4.1338	19.516 ppb	4.1338	21.18%
Cd 226.502†	-4.3	-0.0728 ug/L	0.13473	-0.0728 ppb	0.13473	185.10%
Co 228.616†	-11.3	-0.2976 ug/L	0.23699	-0.2976 ppb	0.23699	79.62%
Cr 267.716†	122.9	1.6125 ug/L	0.28807	1.6125 ppb	0.28807	17.86%
Cu 324.752†	351.7	1.1440 ug/L	0.14553	1.1440 ppb	0.14553	12.72%
Fe 238.204 Radial†	10.4	129.56 ug/L	20.006	129.56 ppb	20.006	15.44%
K 766.490 Radial†	-384.6	-76.818 ug/L	6.9091	-76.818 ppb	6.9091	8.99%

Mg 279.077 IEC†	1.3	58.348 ug/L	156.0570	58.348 ppb	156.0570	267.46%
Mn 257.610†	2556.9	3.3652 ug/L	1.13220	3.3652 ppb	1.13220	33.64%
Mo 202.031†	1.2	0.1197 ug/L	0.29098	0.1197 ppb	0.29098	243.04%
Na 589.592 Radial†	183.0	71.873 ug/L	5.0949	71.873 ppb	5.0949	7.09%
Ni 231.604†	-8.5	-0.2647 ug/L	0.14232	-0.2647 ppb	0.14232	53.77%
P 214.914†	40.4	28.743 ug/L	6.3692	28.743 ppb	6.3692	22.16%
Pb 220.353†	7.3	1.0923 ug/L	1.30651	1.0923 ppb	1.30651	119.61%
S 181.975 Axial†	12.0	21.061 ug/L	13.3428	21.061 ppb	13.3428	63.35%
Sb 206.836†	4.4	1.9192 ug/L	3.54070	1.9192 ppb	3.54070	184.49%
Se 196.026†	3.7	3.3743 ug/L	1.78014	3.3743 ppb	1.78014	52.76%
Si 251.611†	2228.1	82.958 ug/L	22.1048	82.958 ppb	22.1048	26.65%
Sn 189.927†	17.1	3.7810 ug/L	0.85432	3.7810 ppb	0.85432	22.60%
Sr 421.552†	-33.4	-0.2847 ug/L	0.15091	-0.2847 ppb	0.15091	53.01%
Ti 334.940†	746.6	1.2792 ug/L	0.06362	1.2792 ppb	0.06362	4.97%
Tl 190.801†	-6.6	-2.5119 ug/L	0.95064	-2.5119 ppb	0.95064	37.85%
U 409.014†	202.6	5.9427 ug/L	2.72891	5.9427 ppb	2.72891	45.92%
V 292.402†	66.1	0.5031 ug/L	0.33285	0.5031 ppb	0.33285	66.16%
Zn 213.857†	287.7	3.3987 ug/L	0.61601	3.3987 ppb	0.61601	18.13%
SiO2†	1873.5	149.68 ug/L	1.055	149.68 ppb	1.055	0.70%

Sequence No.: 72

Sample ID: 1202054510|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 93

Date Collected: 3/26/2010 00:53:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054510|958057|1

Rep1#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4250.1	4250.1	105 %		00:55:18
1	Y RADIAL	5039.5	5039.5	111.5 %		00:55:18
1	Al 396.153Radial†	90256.4	85743.8	91357 ug/L	91357 ppb	00:54:58
1	Ca 317.933Radial†	53194.5	50470.8	102540 ug/L	102540 ppb	00:54:58
1	Fe 238.204 Radial†	15692.0	14884.6	186160 ug/L	186160 ppb	00:54:58
1	K 766.490 Radial†	218520.9	204599.3	40803 ug/L	40803 ppb	00:54:58
1	Mg 279.077 IEC†	950.4	901.3	39184 ug/L	39184 ppb	00:55:18
1	Na 589.592 Radial†	29282.7	28253.7	11096 ug/L	11096 ppb	00:54:58
1	Sr 421.552†	283070.4	268597.9	2286.5 ug/L	2286.5 ppb	00:54:58
1	Sc 361.383	851337.5	851337.5	101.37 %		00:56:19
1	Y 371.029	788501.0	788501.0	110.11 %		00:56:19
1	Ag 328.068†	54804.7	53812.1	332.94 ug/L	332.94 ppb	00:56:19
1	As 188.979†	1983.7	1977.8	1152.9 ug/L	1152.9 ppb	00:56:24
1	B 249.677†	59665.9	59111.3	1591.7 ug/L	1591.7 ppb	00:56:19
1	Ba 233.527†	213781.0	210879.2	1985.5 ug/L	1985.5 ppb	00:56:19
1	Be 313.107†	2070018.9	2046362.8	844.02 ug/L	844.02 ppb	00:56:19
1	Cd 226.502†	47796.7	47318.4	649.04 ug/L	649.04 ppb	00:56:24
1	Co 228.616†	40124.3	39622.0	1017.4 ug/L	1017.4 ppb	00:56:24
1	Cr 267.716†	196118.1	193378.1	2539.3 ug/L	2539.3 ppb	00:56:19
1	Cu 324.752†	635601.9	620676.7	2022.5 ug/L	2022.5 ppb	00:56:19
1	Mn 257.610†	4446312.0	4385891.3	5771.3 ug/L	5771.3 ppb	00:56:19
1	Mo 202.031†	6062.7	5966.7	540.24 ug/L	540.24 ppb	00:56:24
1	Ni 231.604†	47956.8	47216.4	1473.7 ug/L	1473.7 ppb	00:56:24
1	P 214.914†	12545.5	12208.1	8258.1 ug/L	8258.1 ppb	00:56:24
1	Pb 220.353†	5811.9	5792.4	868.59 ug/L	868.59 ppb	00:56:24
1	S 181.975 Axial†	2905.1	2841.6	4963.6 ug/L	4963.6 ppb	00:56:24
1	Sb 206.836†	3190.3	3120.7	1334.5 ug/L	1334.5 ppb	00:56:24
1	Se 196.026†	3513.6	3483.2	3363.5 ug/L	3363.5 ppb	00:56:24
1	Si 251.611†	1234603.2	1217426.4	45322 ug/L	45322 ppb	00:56:19
1	Sn 189.927†	4914.7	4845.3	1080.7 ug/L	1080.7 ppb	00:56:24
1	Ti 334.940†	3422124.4	3377052.9	5819.9 ug/L	5819.9 ppb	00:56:19
1	Tl 190.801†	3181.3	3163.5	1291.8 ug/L	1291.8 ppb	00:56:24
1	U 409.014†	-8189.1	-6043.5	-204.68 ug/L	-204.68 ppb	00:56:19
1	V 292.402†	172049.3	171156.4	1293.1 ug/L	1293.1 ppb	00:56:19
1	Zn 213.857†	534516.6	526701.0	6217.1 ug/L	6217.1 ppb	00:56:19
1	SiO2†	1247435.8	1230058.0	98261 ug/L	98261 ppb	00:56:59
2	Sc Radial	4242.2	4242.2	105 %		00:55:43
2	Y RADIAL	5028.7	5028.7	111.3 %		00:55:43
2	Al 396.153Radial†	92845.9	88366.2	94152 ug/L	94152 ppb	00:55:23
2	Ca 317.933Radial†	54553.5	51857.3	105360 ug/L	105360 ppb	00:55:23
2	Fe 238.204 Radial†	16047.3	15250.2	190730 ug/L	190730 ppb	00:55:23
2	K 766.490 Radial†	224612.5	210779.1	42036 ug/L	42036 ppb	00:55:23
2	Mg 279.077 IEC†	952.7	905.2	39351 ug/L	39351 ppb	00:55:43
2	Na 589.592 Radial†	30159.1	29138.9	11443 ug/L	11443 ppb	00:55:23
2	Sr 421.552†	292043.3	277631.7	2363.4 ug/L	2363.4 ppb	00:55:23
2	Sc 361.383	857818.2	857818.2	102.14 %		00:56:33
2	Y 371.029	794617.0	794617.0	110.97 %		00:56:33
2	Ag 328.068†	55231.5	53821.6	334.36 ug/L	334.36 ppb	00:56:33
2	As 188.979†	2014.8	1993.4	1162.4 ug/L	1162.4 ppb	00:56:39
2	B 249.677†	60043.1	59035.9	1588.9 ug/L	1588.9 ppb	00:56:33
2	Ba 233.527†	215305.9	210778.8	1984.6 ug/L	1984.6 ppb	00:56:33
2	Be 313.107†	2086594.4	2047163.5	844.34 ug/L	844.34 ppb	00:56:33
2	Cd 226.502†	47885.8	47049.5	644.77 ug/L	644.77 ppb	00:56:39
2	Co 228.616†	40128.0	39326.7	1009.7 ug/L	1009.7 ppb	00:56:39
2	Cr 267.716†	197283.5	193057.4	2535.6 ug/L	2535.6 ppb	00:56:33
2	Cu 324.752†	640280.2	620519.9	2022.3 ug/L	2022.3 ppb	00:56:33
2	Mn 257.610†	4474301.9	4380157.0	5764.2 ug/L	5764.2 ppb	00:56:33
2	Mo 202.031†	6072.0	5930.7	537.46 ug/L	537.46 ppb	00:56:39
2	Ni 231.604†	48004.6	46905.7	1464.0 ug/L	1464.0 ppb	00:56:39

2	P 214.914†	12610.3	12178.0	8233.5 ug/L	8233.5 ppb	00:56:39
2	Pb 220.353†	5787.6	5725.3	858.47 ug/L	858.47 ppb	00:56:39
2	S 181.975 Axial†	2921.1	2835.5	4952.5 ug/L	4952.5 ppb	00:56:39
2	Sb 206.836†	3203.3	3109.6	1329.5 ug/L	1329.5 ppb	00:56:39
2	Se 196.026†	3515.2	3458.5	3358.4 ug/L	3358.4 ppb	00:56:39
2	Si 251.611†	1243233.0	1216674.1	45294 ug/L	45294 ppb	00:56:33
2	Sn 189.927†	4907.1	4801.3	1071.2 ug/L	1071.2 ppb	00:56:39
2	Ti 334.940†	3445782.5	3374710.7	5816.3 ug/L	5816.3 ppb	00:56:33
2	Tl 190.801†	3174.5	3133.1	1280.1 ug/L	1280.1 ppb	00:56:39
2	U 409.014†	-8112.7	-5907.6	-201.19 ug/L	-201.19 ppb	00:56:33
2	V 292.402†	173204.7	171005.3	1291.2 ug/L	1291.2 ppb	00:56:33
2	Zn 213.857†	537508.1	525646.2	6204.0 ug/L	6204.0 ppb	00:56:33
2	SiO2†	1227714.1	1201452.3	95976 ug/L	95976 ppb	00:57:05
3	Sc Radial	4252.3	4252.3	105 %		00:56:08
3	Y RADIAL	5031.4	5031.4	111.4 %		00:56:08
3	Al 396.153Radial†	91221.3	86615.1	92285 ug/L	92285 ppb	00:55:48
3	Ca 317.933Radial†	53612.8	50841.7	103300 ug/L	103300 ppb	00:55:48
3	Fe 238.204 Radial†	15821.1	14999.4	187590 ug/L	187590 ppb	00:55:48
3	K 766.490 Radial†	220615.2	206479.4	41178 ug/L	41178 ppb	00:55:48
3	Mg 279.077 IEC†	947.2	897.8	39029 ug/L	39029 ppb	00:56:08
3	Na 589.592 Radial†	29418.1	28367.8	11140 ug/L	11140 ppb	00:55:48
3	Sr 421.552†	285974.6	271214.7	2308.8 ug/L	2308.8 ppb	00:55:48
3	Sc 361.383	842944.1	842944.1	100.37 %		00:56:48
3	Y 371.029	781066.8	781066.8	109.08 %		00:56:48
3	Ag 328.068†	54265.9	53813.7	333.39 ug/L	333.39 ppb	00:56:48
3	As 188.979†	1965.1	1978.8	1153.8 ug/L	1153.8 ppb	00:56:53
3	B 249.677†	58859.5	58894.0	1585.4 ug/L	1585.4 ppb	00:56:48
3	Ba 233.527†	212310.0	211513.5	1991.4 ug/L	1991.4 ppb	00:56:48
3	Be 313.107†	2054332.7	2051068.0	845.93 ug/L	845.93 ppb	00:56:48
3	Cd 226.502†	47188.2	47181.7	646.97 ug/L	646.97 ppb	00:56:53
3	Co 228.616†	39667.9	39561.4	1015.8 ug/L	1015.8 ppb	00:56:53
3	Cr 267.716†	194793.7	193985.0	2547.3 ug/L	2547.3 ppb	00:56:48
3	Cu 324.752†	626999.0	618348.8	2015.1 ug/L	2015.1 ppb	00:56:48
3	Mn 257.610†	4411026.1	4394410.9	5782.6 ug/L	5782.6 ppb	00:56:48
3	Mo 202.031†	5988.6	5952.5	539.11 ug/L	539.11 ppb	00:56:53
3	Ni 231.604†	47384.9	47117.7	1470.6 ug/L	1470.6 ppb	00:56:53
3	P 214.914†	12448.3	12234.4	8277.6 ug/L	8277.6 ppb	00:56:53
3	Pb 220.353†	5695.3	5733.2	859.68 ug/L	859.68 ppb	00:56:53
3	S 181.975 Axial†	2860.2	2825.3	4934.9 ug/L	4934.9 ppb	00:56:53
3	Sb 206.836†	3112.5	3074.4	1314.8 ug/L	1314.8 ppb	00:56:53
3	Se 196.026†	3430.7	3435.1	3329.7 ug/L	3329.7 ppb	00:56:53
3	Si 251.611†	1222433.3	1217428.6	45322 ug/L	45322 ppb	00:56:48
3	Sn 189.927†	4856.9	4836.0	1078.7 ug/L	1078.7 ppb	00:56:53
3	Ti 334.940†	3388254.2	3376922.3	5819.8 ug/L	5819.8 ppb	00:56:48
3	Tl 190.801†	3166.9	3180.4	1298.4 ug/L	1298.4 ppb	00:56:53
3	U 409.014†	-8137.3	-6072.3	-205.71 ug/L	-205.71 ppb	00:56:48
3	V 292.402†	170684.5	171486.6	1295.4 ug/L	1295.4 ppb	00:56:48
3	Zn 213.857†	530085.8	527537.0	6226.9 ug/L	6226.9 ppb	00:56:48
3	SiO2†	1240775.5	1235675.7	98710 ug/L	98710 ppb	00:57:11

Mean Data: 1202054510|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850699.9	101.29 %		0.888			0.88%
Sc Radial	4248.2	105 %		0.1			0.13%
Y 371.029	788061.6	110.05 %		0.948			0.86%
Y RADIAL	5033.2	111.4 %		0.12			0.11%
Ag 328.068†	53815.8	333.56 ug/L		0.723	333.56 ppb	0.723	0.22%
Al 396.153Radial†	86908.4	92598 ug/L		1423.4	92598 ppb	1423.4	1.54%
As 188.979†	1983.3	1156.4 ug/L		5.21	1156.4 ppb	5.21	0.45%
B 249.677†	59013.7	1588.7 ug/L		3.11	1588.7 ppb	3.11	0.20%
Ba 233.527†	211057.2	1987.2 ug/L		3.72	1987.2 ppb	3.72	0.19%
Be 313.107†	2048198.1	844.76 ug/L		1.024	844.76 ppb	1.024	0.12%
Ca 317.933Radial†	51056.6	103730 ug/L		1458.5	103730 ppb	1458.5	1.41%
Cd 226.502†	47183.2	646.93 ug/L		2.136	646.93 ppb	2.136	0.33%
Co 228.616†	39503.4	1014.3 ug/L		4.09	1014.3 ppb	4.09	0.40%
Cr 267.716†	193473.5	2540.7 ug/L		6.01	2540.7 ppb	6.01	0.24%
Cu 324.752†	619848.5	2019.9 ug/L		4.24	2019.9 ppb	4.24	0.21%
Fe 238.204 Radial†	15044.7	188160 ug/L		2337.9	188160 ppb	2337.9	1.24%
K 766.490 Radial†	207285.9	41339 ug/L		631.8	41339 ppb	631.8	1.53%

Mg 279.077 IEC†	901.5	39188 ug/L	161.2	39188 ppb	161.2	0.41%
Mn 257.610†	4386819.7	5772.7 ug/L	9.28	5772.7 ppb	9.28	0.16%
Mo 202.031†	5950.0	538.94 ug/L	1.399	538.94 ppb	1.399	0.26%
Na 589.592 Radial†	28586.8	11226 ug/L	189.1	11226 ppb	189.1	1.68%
Ni 231.604†	47080.0	1469.5 ug/L	4.95	1469.5 ppb	4.95	0.34%
P 214.914†	12206.9	8256.4 ug/L	22.10	8256.4 ppb	22.10	0.27%
Pb 220.353†	5750.3	862.25 ug/L	5.524	862.25 ppb	5.524	0.64%
S 181.975 Axial†	2834.1	4950.3 ug/L	14.48	4950.3 ppb	14.48	0.29%
Sb 206.836†	3101.6	1326.3 ug/L	10.25	1326.3 ppb	10.25	0.77%
Se 196.026†	3458.9	3350.5 ug/L	18.20	3350.5 ppb	18.20	0.54%
Si 251.611†	1217176.4	45313 ug/L	16.2	45313 ppb	16.2	0.04%
Sn 189.927†	4827.5	1076.8 ug/L	5.02	1076.8 ppb	5.02	0.47%
Sr 421.552†	272481.4	2319.6 ug/L	39.57	2319.6 ppb	39.57	1.71%
Ti 334.940†	3376228.6	5818.7 ug/L	2.08	5818.7 ppb	2.08	0.04%
Tl 190.801†	3159.0	1290.1 ug/L	9.30	1290.1 ppb	9.30	0.72%
U 409.014†	-6007.8	-203.86 ug/L	2.367	-203.86 ppb	2.367	1.16%
V 292.402†	171216.1	1293.2 ug/L	2.09	1293.2 ppb	2.09	0.16%
Zn 213.857†	526628.1	6216.0 ug/L	11.49	6216.0 ppb	11.49	0.18%
SiO2†	1222395.3	97649 ug/L	1466.3	97649 ppb	1466.3	1.50%

Sequence No.: 73

Sample ID: 247907001|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 3/26/2010 00:59:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907001|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4327.5	4327.5	107 %		01:01:16
1	Y RADIAL	5285.8	5285.8	117.0 %		01:01:16
1	Al 396.153Radial†	39431.6	36835.7	39258 ug/L	39258 ppb	01:01:16
1	Ca 317.933Radial†	7065.8	6569.2	13347 ug/L	13347 ppb	01:01:16
1	Fe 238.204 Radial†	7270.5	6768.2	84634 ug/L	84634 ppb	01:01:16
1	K 766.490 Radial†	39463.4	33982.4	6778.4 ug/L	6778.4 ppb	01:01:16
1	Mg 279.077 IEC†	195.5	181.5	7839.5 ug/L	7839.5 ppb	01:01:36
1	Na 589.592 Radial†	2024.8	2348.3	922.21 ug/L	922.21 ppb	01:01:16
1	Sr 421.552†	11158.7	10331.5	87.879 ug/L	87.879 ppb	01:01:16
1	Sc 361.383	813024.7	813024.7	96.805 %		01:02:33
1	Y 371.029	787400.5	787400.5	109.96 %		01:02:33
1	Ag 328.068†	-4979.9	-5397.7	-0.6390 ug/L	-0.6390 ppb	01:02:38
1	As 188.979†	-35.1	-15.4	32.672 ug/L	32.672 ppb	01:02:58
1	B 249.677†	1037.7	1322.1	22.533 ug/L	22.533 ppb	01:02:38
1	Ba 233.527†	37872.4	39103.7	369.39 ug/L	369.39 ppb	01:02:38
1	Be 313.107†	-2430.7	1751.8	6.2412 ug/L	6.2412 ppb	01:02:38
1	Cd 226.502†	621.9	808.9	2.6596 ug/L	2.6596 ppb	01:02:58
1	Co 228.616†	776.8	841.3	15.719 ug/L	15.719 ppb	01:02:58
1	Cr 267.716†	5079.5	5152.2	76.268 ug/L	76.268 ppb	01:02:58
1	Cu 324.752†	52615.9	47999.5	160.22 ug/L	160.22 ppb	01:02:38
1	Mn 257.610†	1452260.6	1499734.3	1975.8 ug/L	1975.8 ppb	01:02:33
1	Mo 202.031†	19.3	5.7	7.2301 ug/L	7.2301 ppb	01:02:58
1	Ni 231.604†	1532.8	1489.8	46.505 ug/L	46.505 ppb	01:02:58
1	P 214.914†	1289.1	1163.4	746.79 ug/L	746.79 ppb	01:02:58
1	Pb 220.353†	692.1	773.8	113.41 ug/L	113.41 ppb	01:02:58
1	S 181.975 Axial†	277.5	262.3	452.32 ug/L	452.32 ppb	01:02:58
1	Sb 206.836†	61.1	36.5	5.5834 ug/L	5.5834 ppb	01:02:58
1	Se 196.026†	-325.5	-319.3	11.099 ug/L	11.099 ppb	01:02:58
1	Si 251.611†	1040825.3	1074648.2	40013 ug/L	40013 ppb	01:02:33
1	Sn 189.927†	-63.4	-68.5	-17.667 ug/L	-17.667 ppb	01:02:58
1	Ti 334.940†	1369473.0	1415750.4	2437.0 ug/L	2437.0 ppb	01:02:33
1	Tl 190.801†	-107.6	-86.1	-3.9563 ug/L	-3.9563 ppb	01:02:58
1	U 409.014†	-8035.7	-6265.7	-194.16 ug/L	-194.16 ppb	01:02:33
1	V 292.402†	12016.7	13840.8	91.573 ug/L	91.573 ppb	01:02:38
1	Zn 213.857†	32450.3	32914.7	377.85 ug/L	377.85 ppb	01:02:38
1	SiO2†	1037271.4	1070949.1	85564 ug/L	85564 ppb	01:04:07
2	Sc Radial	4287.4	4287.4	106 %		01:01:41
2	Y RADIAL	5250.5	5250.5	116.2 %		01:01:41
2	Al 396.153Radial†	38971.3	36746.3	39163 ug/L	39163 ppb	01:01:41
2	Ca 317.933Radial†	6985.5	6555.2	13319 ug/L	13319 ppb	01:01:41
2	Fe 238.204 Radial†	7163.4	6730.8	84167 ug/L	84167 ppb	01:01:41
2	K 766.490 Radial†	38890.4	33787.4	6739.5 ug/L	6739.5 ppb	01:01:41
2	Mg 279.077 IEC†	197.4	185.0	7994.9 ug/L	7994.9 ppb	01:02:01
2	Na 589.592 Radial†	1885.8	2235.1	877.76 ug/L	877.76 ppb	01:01:41
2	Sr 421.552†	11033.6	10311.0	87.705 ug/L	87.705 ppb	01:01:41
2	Sc 361.383	852960.5	852960.5	101.56 %		01:03:04
2	Y 371.029	818894.8	818894.8	114.36 %		01:03:04
2	Ag 328.068†	-4994.4	-5171.0	0.3303 ug/L	0.3303 ppb	01:03:09
2	As 188.979†	-34.4	-13.0	32.503 ug/L	32.503 ppb	01:03:30
2	B 249.677†	945.9	1181.5	18.751 ug/L	18.751 ppb	01:03:09
2	Ba 233.527†	37744.6	37146.2	351.01 ug/L	351.01 ppb	01:03:09
2	Be 313.107†	-2437.5	1862.7	5.9346 ug/L	5.9346 ppb	01:03:09
2	Cd 226.502†	602.8	759.9	2.0191 ug/L	2.0191 ppb	01:03:30
2	Co 228.616†	743.7	771.2	14.215 ug/L	14.215 ppb	01:03:30
2	Cr 267.716†	5013.9	4841.9	72.167 ug/L	72.167 ppb	01:03:30
2	Cu 324.752†	52286.6	45130.5	150.89 ug/L	150.89 ppb	01:03:09
2	Mn 257.610†	1428443.4	1406044.0	1852.8 ug/L	1852.8 ppb	01:03:04
2	Mo 202.031†	5.8	-8.5	5.9483 ug/L	5.9483 ppb	01:03:30
2	Ni 231.604†	1542.4	1425.1	44.485 ug/L	44.485 ppb	01:03:30

2	P 214.914†	1254.9	1067.5	680.06 ug/L	680.06 ppb	01:03:30
2	Pb 220.353†	694.0	742.1	108.68 ug/L	108.68 ppb	01:03:30
2	S 181.975 Axial†	268.5	239.9	413.24 ug/L	413.24 ppb	01:03:30
2	Sb 206.836†	49.4	22.0	-0.0369 ug/L	-0.0369 ppb	01:03:30
2	Se 196.026†	-335.3	-313.2	14.589 ug/L	14.589 ppb	01:03:30
2	Si 251.611†	1029193.1	1012854.9	37712 ug/L	37712 ppb	01:03:04
2	Sn 189.927†	-49.8	-52.2	-14.019 ug/L	-14.019 ppb	01:03:30
2	Ti 334.940†	1345320.3	1325733.8	2282.1 ug/L	2282.1 ppb	01:03:04
2	Tl 190.801†	-99.0	-72.4	-0.5255 ug/L	-0.5255 ppb	01:03:30
2	U 409.014†	-7986.9	-5829.0	-181.25 ug/L	-181.25 ppb	01:03:04
2	V 292.402†	11994.8	13238.0	87.170 ug/L	87.170 ppb	01:03:09
2	Zn 213.857†	32400.8	31296.6	358.72 ug/L	358.72 ppb	01:03:09
2	SiO2†	1030250.1	1013867.7	81003 ug/L	81003 ppb	01:04:13
3	Sc Radial	4339.2	4339.2	108 %		01:02:06
3	Y RADIAL	5297.7	5297.7	117.3 %		01:02:06
3	Al 396.153Radial†	39346.1	36657.1	39068 ug/L	39068 ppb	01:02:06
3	Ca 317.933Radial†	7045.1	6532.1	13272 ug/L	13272 ppb	01:02:06
3	Fe 238.204 Radial†	7200.0	6684.4	83586 ug/L	83586 ppb	01:02:06
3	K 766.490 Radial†	39266.5	33700.2	6722.2 ug/L	6722.2 ppb	01:02:06
3	Mg 279.077 IEC†	189.6	175.5	7580.3 ug/L	7580.3 ppb	01:02:26
3	Na 589.592 Radial†	1905.1	2232.0	876.52 ug/L	876.52 ppb	01:02:06
3	Sr 421.552†	11112.3	10260.4	87.274 ug/L	87.274 ppb	01:02:06
3	Sc 361.383	860015.4	860015.4	102.40 %		01:03:35
3	Y 371.029	825023.8	825023.8	115.21 %		01:03:35
3	Ag 328.068†	-4833.5	-4973.6	1.1356 ug/L	1.1356 ppb	01:03:41
3	As 188.979†	-42.9	-21.0	27.922 ug/L	27.922 ppb	01:04:01
3	B 249.677†	889.1	1118.5	17.112 ug/L	17.112 ppb	01:03:41
3	Ba 233.527†	37645.6	36744.6	347.23 ug/L	347.23 ppb	01:03:41
3	Be 313.107†	-2590.8	1732.6	5.8443 ug/L	5.8443 ppb	01:03:41
3	Cd 226.502†	594.9	747.4	1.9026 ug/L	1.9026 ppb	01:04:01
3	Co 228.616†	753.9	775.1	14.358 ug/L	14.358 ppb	01:04:01
3	Cr 267.716†	5024.9	4812.2	71.714 ug/L	71.714 ppb	01:04:01
3	Cu 324.752†	52021.2	44449.0	148.64 ug/L	148.64 ppb	01:03:41
3	Mn 257.610†	1427417.7	1393504.6	1836.3 ug/L	1836.3 ppb	01:03:35
3	Mo 202.031†	-1.6	-15.8	5.2593 ug/L	5.2593 ppb	01:04:01
3	Ni 231.604†	1546.4	1416.6	44.220 ug/L	44.220 ppb	01:04:01
3	P 214.914†	1290.9	1092.4	698.90 ug/L	698.90 ppb	01:04:01
3	Pb 220.353†	684.3	727.0	106.46 ug/L	106.46 ppb	01:04:01
3	S 181.975 Axial†	274.6	243.8	420.05 ug/L	420.05 ppb	01:04:01
3	Sb 206.836†	52.0	24.1	0.8993 ug/L	0.8993 ppb	01:04:01
3	Se 196.026†	-334.8	-310.0	15.339 ug/L	15.339 ppb	01:04:01
3	Si 251.611†	1030510.0	1005827.9	37450 ug/L	37450 ppb	01:03:35
3	Sn 189.927†	-50.5	-52.4	-14.037 ug/L	-14.037 ppb	01:04:01
3	Ti 334.940†	1346621.6	1316138.2	2265.6 ug/L	2265.6 ppb	01:03:35
3	Tl 190.801†	-99.0	-71.6	-0.4264 ug/L	-0.4264 ppb	01:04:01
3	U 409.014†	-7855.0	-5635.7	-175.50 ug/L	-175.50 ppb	01:03:35
3	V 292.402†	11883.5	13032.5	85.682 ug/L	85.682 ppb	01:03:41
3	Zn 213.857†	32243.3	30881.1	353.88 ug/L	353.88 ppb	01:03:41
3	SiO2†	1025958.7	1001355.4	80003 ug/L	80003 ppb	01:04:19

Mean Data: 247907001|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842000.2	100.26 %	3.017			3.01%
Sc Radial	4318.0	107 %	0.7			0.63%
Y 371.029	810439.7	113.18 %	2.819			2.49%
Y RADIAL	5278.0	116.8 %	0.54			0.47%
Ag 328.068†	-5180.8	0.2756 ug/L	0.88855	0.2756 ppb	0.88855	322.37%
Al 396.153Radial†	36746.4	39163 ug/L	95.1	39163 ppb	95.1	0.24%
As 188.979†	-16.5	31.032 ug/L	2.6947	31.032 ppb	2.6947	8.68%
B 249.677†	1207.3	19.466 ug/L	2.7804	19.466 ppb	2.7804	14.28%
Ba 233.527†	37664.8	355.87 ug/L	11.854	355.87 ppb	11.854	3.33%
Be 313.107†	1782.4	6.0067 ug/L	0.20803	6.0067 ppb	0.20803	3.46%
Ca 317.933Radial†	6552.2	13312 ug/L	38.0	13312 ppb	38.0	0.29%
Cd 226.502†	772.1	2.1938 ug/L	0.40762	2.1938 ppb	0.40762	18.58%
Co 228.616†	795.9	14.764 ug/L	0.8304	14.764 ppb	0.8304	5.62%
Cr 267.716†	4935.4	73.383 ug/L	2.5085	73.383 ppb	2.5085	3.42%
Cu 324.752†	45859.7	153.25 ug/L	6.140	153.25 ppb	6.140	4.01%
Fe 238.204 Radial†	6727.8	84129 ug/L	525.1	84129 ppb	525.1	0.62%
K 766.490 Radial†	33823.3	6746.7 ug/L	28.79	6746.7 ppb	28.79	0.43%

Mg 279.077 IEC†	180.7	7804.9 ug/L	209.47	7804.9 ppb	209.47	2.68%
Mn 257.610†	1433094.3	1888.3 ug/L	76.21	1888.3 ppb	76.21	4.04%
Mo 202.031†	-6.2	6.1459 ug/L	1.00013	6.1459 ppb	1.00013	16.27%
Na 589.592 Radial†	2271.8	892.16 ug/L	26.026	892.16 ppb	26.026	2.92%
Ni 231.604†	1443.8	45.070 ug/L	1.2494	45.070 ppb	1.2494	2.77%
P 214.914†	1107.8	708.58 ug/L	34.403	708.58 ppb	34.403	4.86%
Pb 220.353†	747.7	109.52 ug/L	3.546	109.52 ppb	3.546	3.24%
S 181.975 Axial†	248.7	428.54 ug/L	20.875	428.54 ppb	20.875	4.87%
Sb 206.836†	27.6	2.1486 ug/L	3.01120	2.1486 ppb	3.01120	140.15%
Se 196.026†	-314.2	13.676 ug/L	2.2628	13.676 ppb	2.2628	16.55%
Si 251.611†	1031110.3	38391 ug/L	1409.9	38391 ppb	1409.9	3.67%
Sn 189.927†	-57.7	-15.241 ug/L	2.1012	-15.241 ppb	2.1012	13.79%
Sr 421.552†	10301.0	87.619 ug/L	0.3115	87.619 ppb	0.3115	0.36%
Ti 334.940†	1352540.8	2328.2 ug/L	94.55	2328.2 ppb	94.55	4.06%
Tl 190.801†	-76.7	-1.6361 ug/L	2.00999	-1.6361 ppb	2.00999	122.86%
U 409.014†	-5910.2	-183.64 ug/L	9.559	-183.64 ppb	9.559	5.21%
V 292.402†	13370.4	88.142 ug/L	3.0635	88.142 ppb	3.0635	3.48%
Zn 213.857†	31697.5	363.48 ug/L	12.676	363.48 ppb	12.676	3.49%
SiO2†	1028724.1	82190 ug/L	2964.0	82190 ppb	2964.0	3.61%

Sequence No.: 74

Sample ID: 1202054506|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 3/26/2010 01:06:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054506|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc Radial	4340.8	4340.8	108 %			01:08:23
1	Y RADIAL	5499.9	5499.9	121.7 %			01:08:23
1	Al 396.153Radial†	52973.2	49307.3	52550 ug/L		52550 ppb	01:08:23
1	Ca 317.933Radial†	9456.8	8770.9	17820 ug/L		17820 ppb	01:08:23
1	Fe 238.204 Radial†	9469.3	8790.7	109930 ug/L		109930 ppb	01:08:23
1	K 766.490 Radial†	52230.8	45734.5	9122.7 ug/L		9122.7 ppb	01:08:23
1	Mg 279.077 IEC†	267.8	248.1	10725 ug/L		10725 ppb	01:08:43
1	Na 589.592 Radial†	2300.8	2599.0	1020.7 ug/L		1020.7 ppb	01:08:23
1	Sr 421.552†	14647.5	13541.8	115.18 ug/L		115.18 ppb	01:08:23
1	Sc 361.383	860176.2	860176.2	102.42 %			01:09:40
1	Y 371.029	850423.8	850423.8	118.76 %			01:09:40
1	Ag 328.068†	-6724.9	-6819.4	0.0398 ug/L		0.0398 ppb	01:09:45
1	As 188.979†	-44.4	-22.5	39.482 ug/L		39.482 ppb	01:10:05
1	B 249.677†	1222.6	1443.8	21.754 ug/L		21.754 ppb	01:09:45
1	Ba 233.527†	51636.7	50398.3	476.10 ug/L		476.10 ppb	01:09:45
1	Be 313.107†	-2589.6	1734.3	7.4639 ug/L		7.4639 ppb	01:09:45
1	Cd 226.502†	913.9	1058.7	3.5888 ug/L		3.5888 ppb	01:10:05
1	Co 228.616†	1091.8	1104.9	21.114 ug/L		21.114 ppb	01:10:05
1	Cr 267.716†	7391.8	7122.2	104.62 ug/L		104.62 ppb	01:09:45
1	Cu 324.752†	92465.8	83928.6	278.04 ug/L		278.04 ppb	01:09:45
1	Mn 257.610†	2075341.4	2025861.1	2668.4 ug/L		2668.4 ppb	01:09:40
1	Mo 202.031†	-11.3	-25.3	6.5253 ug/L		6.5253 ppb	01:10:05
1	Ni 231.604†	2112.8	1969.3	61.474 ug/L		61.474 ppb	01:10:05
1	P 214.914†	1671.5	1463.8	922.54 ug/L		922.54 ppb	01:10:05
1	Pb 220.353†	1042.2	1076.4	158.36 ug/L		158.36 ppb	01:10:05
1	S 181.975 Axial†	367.3	334.2	576.01 ug/L		576.01 ppb	01:10:05
1	Sb 206.836†	38.3	10.8	-7.7227 ug/L		-7.7227 ppb	01:10:05
1	Se 196.026†	-445.7	-418.2	12.238 ug/L		12.238 ppb	01:10:05
1	Si 251.611†	1113286.8	1086461.0	40452 ug/L		40452 ppb	01:09:40
1	Sn 189.927†	-60.3	-61.9	-16.864 ug/L		-16.864 ppb	01:10:05
1	Ti 334.940†	1771380.1	1730616.3	2979.1 ug/L		2979.1 ppb	01:09:40
1	Tl 190.801†	-142.5	-114.1	-7.0710 ug/L		-7.0710 ppb	01:10:05
1	U 409.014†	-6983.1	-4782.9	-153.47 ug/L		-153.47 ppb	01:09:40
1	V 292.402†	16716.5	17749.1	117.54 ug/L		117.54 ppb	01:09:45
1	Zn 213.857†	46308.0	44607.5	512.72 ug/L		512.72 ppb	01:09:45
1	SiO2†	1123836.3	1096733.4	87624 ug/L		87624 ppb	01:11:14
2	Sc Radial	4363.0	4363.0	108 %			01:08:48
2	Y RADIAL	5497.0	5497.0	121.7 %			01:08:48
2	Al 396.153Radial†	53450.2	49497.1	52752 ug/L		52752 ppb	01:08:48
2	Ca 317.933Radial†	9458.5	8727.7	17733 ug/L		17733 ppb	01:08:48
2	Fe 238.204 Radial†	9490.4	8765.4	109610 ug/L		109610 ppb	01:08:48
2	K 766.490 Radial†	52453.7	45692.9	9114.4 ug/L		9114.4 ppb	01:08:48
2	Mg 279.077 IEC†	266.5	245.7	10618 ug/L		10618 ppb	01:09:08
2	Na 589.592 Radial†	2279.2	2568.1	1008.5 ug/L		1008.5 ppb	01:08:48
2	Sr 421.552†	14696.1	13517.3	114.97 ug/L		114.97 ppb	01:08:48
2	Sc 361.383	851043.9	851043.9	101.33 %			01:10:11
2	Y 371.029	844541.0	844541.0	117.94 %			01:10:11
2	Ag 328.068†	-6654.1	-6820.0	-0.0603 ug/L		-0.0603 ppb	01:10:16
2	As 188.979†	-44.5	-23.0	39.652 ug/L		39.652 ppb	01:10:37
2	B 249.677†	1283.0	1516.3	23.798 ug/L		23.798 ppb	01:10:16
2	Ba 233.527†	51019.0	50329.7	475.45 ug/L		475.45 ppb	01:10:16
2	Be 313.107†	-2719.2	1579.2	7.5389 ug/L		7.5389 ppb	01:10:16
2	Cd 226.502†	931.2	1085.4	3.9983 ug/L		3.9983 ppb	01:10:37
2	Co 228.616†	1076.0	1100.8	20.884 ug/L		20.884 ppb	01:10:37
2	Cr 267.716†	7306.3	7115.3	104.50 ug/L		104.50 ppb	01:10:16
2	Cu 324.752†	91388.9	83834.6	277.72 ug/L		277.72 ppb	01:10:16
2	Mn 257.610†	2092616.4	2064652.8	2719.3 ug/L		2719.3 ppb	01:10:11
2	Mo 202.031†	-4.5	-18.6	7.0854 ug/L		7.0854 ppb	01:10:37
2	Ni 231.604†	2123.2	2001.7	62.486 ug/L		62.486 ppb	01:10:37

2	P 214.914†	1689.8	1499.4	948.48 ug/L	948.48 ppb	01:10:37
2	Pb 220.353†	1057.6	1102.5	162.39 ug/L	162.39 ppb	01:10:37
2	S 181.975 Axial†	358.2	329.1	566.96 ug/L	566.96 ppb	01:10:37
2	Sb 206.836†	48.4	21.2	-3.5274 ug/L	-3.5274 ppb	01:10:37
2	Se 196.026†	-454.8	-431.9	0.5095 ug/L	0.5095 ppb	01:10:37
2	Si 251.611†	1121858.7	1106584.4	41202 ug/L	41202 ppb	01:10:11
2	Sn 189.927†	-67.5	-69.7	-18.589 ug/L	-18.589 ppb	01:10:37
2	Ti 334.940†	1788355.6	1765927.8	3039.8 ug/L	3039.8 ppb	01:10:11
2	Tl 190.801†	-135.0	-108.2	-4.0498 ug/L	-4.0498 ppb	01:10:37
2	U 409.014†	-6940.0	-4813.5	-154.34 ug/L	-154.34 ppb	01:10:11
2	V 292.402†	16505.2	17715.8	117.27 ug/L	117.27 ppb	01:10:16
2	Zn 213.857†	45658.5	44451.8	510.91 ug/L	510.91 ppb	01:10:16
2	SiO2†	1126207.6	1110848.2	88751 ug/L	88751 ppb	01:11:20
3	Sc Radial	4272.4	4272.4	106 %		01:09:13
3	Y RADIAL	5417.6	5417.6	119.9 %		01:09:13
3	Al 396.153Radial†	53880.8	50951.2	54302 ug/L	54302 ppb	01:09:13
3	Ca 317.933Radial†	9543.2	8993.1	18272 ug/L	18272 ppb	01:09:13
3	Fe 238.204 Radial†	9575.0	9031.3	112930 ug/L	112930 ppb	01:09:13
3	K 766.490 Radial†	52651.9	46908.1	9356.8 ug/L	9356.8 ppb	01:09:13
3	Mg 279.077 IEC†	268.0	252.3	10905 ug/L	10905 ppb	01:09:33
3	Na 589.592 Radial†	2297.3	2629.8	1032.8 ug/L	1032.8 ppb	01:09:13
3	Sr 421.552†	14867.3	13966.9	118.80 ug/L	118.80 ppb	01:09:13
3	Sc 361.383	878398.0	878398.0	104.59 %		01:10:42
3	Y 371.029	864587.5	864587.5	120.74 %		01:10:42
3	Ag 328.068†	-6781.3	-6737.2	1.3634 ug/L	1.3634 ppb	01:10:48
3	As 188.979†	-43.6	-20.9	40.410 ug/L	40.410 ppb	01:11:08
3	B 249.677†	1205.3	1402.6	20.132 ug/L	20.132 ppb	01:10:48
3	Ba 233.527†	51812.7	49520.7	467.96 ug/L	467.96 ppb	01:10:48
3	Be 313.107†	-2687.4	1693.2	7.2761 ug/L	7.2761 ppb	01:10:48
3	Cd 226.502†	911.9	1038.3	2.9917 ug/L	2.9917 ppb	01:11:08
3	Co 228.616†	1101.9	1092.5	20.903 ug/L	20.903 ppb	01:11:08
3	Cr 267.716†	7407.0	6987.0	103.17 ug/L	103.17 ppb	01:10:48
3	Cu 324.752†	93196.3	82754.2	274.38 ug/L	274.38 ppb	01:10:48
3	Mn 257.610†	2066864.6	1975721.7	2602.9 ug/L	2602.9 ppb	01:10:42
3	Mo 202.031†	-3.7	-17.7	7.4263 ug/L	7.4263 ppb	01:11:08
3	Ni 231.604†	2113.8	1927.4	60.166 ug/L	60.166 ppb	01:11:08
3	P 214.914†	1662.5	1421.4	890.81 ug/L	890.81 ppb	01:11:08
3	Pb 220.353†	1053.5	1066.1	156.78 ug/L	156.78 ppb	01:11:08
3	S 181.975 Axial†	364.0	323.7	557.14 ug/L	557.14 ppb	01:11:08
3	Sb 206.836†	39.3	11.0	-7.4513 ug/L	-7.4513 ppb	01:11:08
3	Se 196.026†	-440.4	-404.1	33.063 ug/L	33.063 ppb	01:11:08
3	Si 251.611†	1108264.0	1059109.8	39434 ug/L	39434 ppb	01:10:42
3	Sn 189.927†	-59.4	-59.9	-16.501 ug/L	-16.501 ppb	01:11:08
3	Ti 334.940†	1763089.8	1686811.8	2903.7 ug/L	2903.7 ppb	01:10:42
3	Tl 190.801†	-138.5	-107.4	-5.4250 ug/L	-5.4250 ppb	01:11:08
3	U 409.014†	-6747.0	-4415.8	-143.01 ug/L	-143.01 ppb	01:10:42
3	V 292.402†	16848.7	17537.0	115.58 ug/L	115.58 ppb	01:10:48
3	Zn 213.857†	46443.4	43799.1	502.68 ug/L	502.68 ppb	01:10:48
3	SiO2†	1112885.6	1063500.7	84968 ug/L	84968 ppb	01:11:26

Mean Data: 1202054506|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	863206.0	102.78 %		1.658			1.61%
Sc Radial	4325.4	107 %		1.2			1.09%
Y 371.029	853184.1	119.15 %		1.439			1.21%
Y RADIAL	5471.5	121.1 %		1.03			0.85%
Ag 328.068†	-6792.2	0.4476 ug/L		0.79461	0.4476 ppb	0.79461	177.51%
Al 396.153Radial†	49918.6	53201 ug/L		958.5	53201 ppb	958.5	1.80%
As 188.979†	-22.1	39.848 ug/L		0.4937	39.848 ppb	0.4937	1.24%
B 249.677†	1454.2	21.895 ug/L		1.8373	21.895 ppb	1.8373	8.39%
Ba 233.527†	50082.9	473.17 ug/L		4.522	473.17 ppb	4.522	0.96%
Be 313.107†	1668.9	7.4263 ug/L		0.13536	7.4263 ppb	0.13536	1.82%
Ca 317.933Radial†	8830.6	17942 ug/L		289.3	17942 ppb	289.3	1.61%
Cd 226.502†	1060.8	3.5263 ug/L		0.50623	3.5263 ppb	0.50623	14.36%
Co 228.616†	1099.4	20.967 ug/L		0.1276	20.967 ppb	0.1276	0.61%
Cr 267.716†	7074.8	104.10 ug/L		0.802	104.10 ppb	0.802	0.77%
Cu 324.752†	83505.8	276.71 ug/L		2.024	276.71 ppb	2.024	0.73%
Fe 238.204 Radial†	8862.5	110820 ug/L		1835.1	110820 ppb	1835.1	1.66%
K 766.490 Radial†	46111.8	9198.0 ug/L		137.64	9198.0 ppb	137.64	1.50%

Mg 279.077 IEC†	248.7	10749 ug/L	144.9	10749 ppb	144.9	1.35%
Mn 257.610†	2022078.5	2663.6 ug/L	58.34	2663.6 ppb	58.34	2.19%
Mo 202.031†	-20.5	7.0123 ug/L	0.45495	7.0123 ppb	0.45495	6.49%
Na 589.592 Radial†	2599.0	1020.7 ug/L	12.12	1020.7 ppb	12.12	1.19%
Ni 231.604†	1966.1	61.375 ug/L	1.1634	61.375 ppb	1.1634	1.90%
P 214.914†	1461.5	920.61 ug/L	28.883	920.61 ppb	28.883	3.14%
Pb 220.353†	1081.7	159.17 ug/L	2.892	159.17 ppb	2.892	1.82%
S 181.975 Axial†	329.0	566.70 ug/L	9.435	566.70 ppb	9.435	1.66%
Sb 206.836†	14.3	-6.2338 ug/L	2.34778	-6.2338 ppb	2.34778	37.66%
Se 196.026†	-418.1	15.270 ug/L	16.4874	15.270 ppb	16.4874	107.97%
Si 251.611†	1084051.8	40363 ug/L	887.2	40363 ppb	887.2	2.20%
Sn 189.927†	-63.9	-17.318 ug/L	1.1155	-17.318 ppb	1.1155	6.44%
Sr 421.552†	13675.3	116.32 ug/L	2.151	116.32 ppb	2.151	1.85%
Ti 334.940†	1727785.3	2974.2 ug/L	68.17	2974.2 ppb	68.17	2.29%
Tl 190.801†	-109.9	-5.5153 ug/L	1.51261	-5.5153 ppb	1.51261	27.43%
U 409.014†	-4670.7	-150.27 ug/L	6.306	-150.27 ppb	6.306	4.20%
V 292.402†	17667.3	116.79 ug/L	1.062	116.79 ppb	1.062	0.91%
Zn 213.857†	44286.2	508.77 ug/L	5.352	508.77 ppb	5.352	1.05%
SiO2†	1090360.8	87114 ug/L	1942.1	87114 ppb	1942.1	2.23%

Sequence No.: 75

Sample ID: 1202054508|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 96

Date Collected: 3/26/2010 01:13:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054508|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4298.6	4298.6	107 %		01:15:50
1	Y RADIAL	5361.4	5361.4	118.7 %		01:15:50
1	Al 396.153Radial†	87197.0	81906.1	87270 ug/L	87270 ppb	01:15:30
1	Ca 317.933Radial†	10723.5	10045.8	20411 ug/L	20411 ppb	01:15:30
1	Fe 238.204 Radial†	9546.3	8949.3	111920 ug/L	111920 ppb	01:15:30
1	K 766.490 Radial†	94708.5	86072.0	17172 ug/L	17172 ppb	01:15:30
1	Mg 279.077 IEC†	500.8	469.2	20385 ug/L	20385 ppb	01:15:50
1	Na 589.592 Radial†	14826.2	14373.9	5644.8 ug/L	5644.8 ppb	01:15:30
1	Sr 421.552†	69903.6	65528.1	557.86 ug/L	557.86 ppb	01:15:30
1	Sc 361.383	859042.7	859042.7	102.28 %		01:16:49
1	Y 371.029	847382.6	847382.6	118.34 %		01:16:49
1	Ag 328.068†	89651.9	87396.0	477.22 ug/L	477.22 ppb	01:16:49
1	As 188.979†	842.1	844.1	510.65 ug/L	510.65 ppb	01:17:09
1	B 249.677†	18931.8	18759.1	496.05 ug/L	496.05 ppb	01:16:49
1	Ba 233.527†	103322.5	100996.2	951.57 ug/L	951.57 ppb	01:16:49
1	Be 313.107†	1203027.6	1180419.8	487.90 ug/L	487.90 ppb	01:16:49
1	Cd 226.502†	34117.6	33522.0	461.62 ug/L	461.62 ppb	01:17:09
1	Co 228.616†	19448.6	19053.1	487.57 ug/L	487.57 ppb	01:17:09
1	Cr 267.716†	43524.6	42457.4	565.39 ug/L	565.39 ppb	01:16:49
1	Cu 324.752†	222211.6	210895.6	689.60 ug/L	689.60 ppb	01:16:49
1	Mn 257.610†	2136562.4	2088388.3	2750.3 ug/L	2750.3 ppb	01:16:49
1	Mo 202.031†	5282.1	5149.9	461.69 ug/L	461.69 ppb	01:17:09
1	Ni 231.604†	17412.3	16929.8	528.34 ug/L	528.34 ppb	01:17:09
1	P 214.914†	2615.9	2389.3	1517.5 ug/L	1517.5 ppb	01:17:09
1	Pb 220.353†	4020.1	3989.1	605.82 ug/L	605.82 ppb	01:17:09
1	S 181.975 Axial†	3134.2	3039.8	5311.8 ug/L	5311.8 ppb	01:17:09
1	Sb 206.836†	1045.4	995.5	425.35 ug/L	425.35 ppb	01:17:09
1	Se 196.026†	204.2	216.6	538.76 ug/L	538.76 ppb	01:17:09
1	Si 251.611†	1073908.0	1049396.1	39067 ug/L	39067 ppb	01:16:49
1	Sn 189.927†	2114.5	2064.2	454.38 ug/L	454.38 ppb	01:17:09
1	Ti 334.940†	2262951.0	2213489.7	3809.1 ug/L	3809.1 ppb	01:16:49
1	Tl 190.801†	1054.9	1056.4	449.80 ug/L	449.80 ppb	01:17:09
1	U 409.014†	8106.3	9960.4	279.08 ug/L	279.08 ppb	01:16:49
1	V 292.402†	81385.9	80995.7	611.21 ug/L	611.21 ppb	01:16:49
1	Zn 213.857†	89942.0	87326.7	1016.4 ug/L	1016.4 ppb	01:16:49
1	SiO2†	1080314.4	1055631.5	84327 ug/L	84327 ppb	01:18:10
2	Sc Radial	4233.3	4233.3	105 %		01:16:15
2	Y RADIAL	5308.9	5308.9	117.5 %		01:16:15
2	Al 396.153Radial†	88717.0	84615.9	90158 ug/L	90158 ppb	01:15:55
2	Ca 317.933Radial†	10899.2	10368.4	21066 ug/L	21066 ppb	01:15:55
2	Fe 238.204 Radial†	9620.9	9158.5	114540 ug/L	114540 ppb	01:15:55
2	K 766.490 Radial†	96041.3	88712.2	17699 ug/L	17699 ppb	01:15:55
2	Mg 279.077 IEC†	499.4	475.1	20640 ug/L	20640 ppb	01:16:15
2	Na 589.592 Radial†	15036.4	14788.7	5807.7 ug/L	5807.7 ppb	01:15:55
2	Sr 421.552†	71021.9	67605.1	575.54 ug/L	575.54 ppb	01:15:55
2	Sc 361.383	857209.8	857209.8	102.07 %		01:17:16
2	Y 371.029	847095.6	847095.6	118.30 %		01:17:16
2	Ag 328.068†	89518.0	87452.3	478.30 ug/L	478.30 ppb	01:17:16
2	As 188.979†	837.3	841.1	509.64 ug/L	509.64 ppb	01:17:36
2	B 249.677†	18784.6	18654.4	492.75 ug/L	492.75 ppb	01:17:16
2	Ba 233.527†	103094.5	100988.8	951.58 ug/L	951.58 ppb	01:17:16
2	Be 313.107†	1203264.3	1183166.5	489.01 ug/L	489.01 ppb	01:17:16
2	Cd 226.502†	33981.5	33460.0	460.48 ug/L	460.48 ppb	01:17:36
2	Co 228.616†	19393.2	19039.5	487.18 ug/L	487.18 ppb	01:17:36
2	Cr 267.716†	43471.4	42496.4	566.17 ug/L	566.17 ppb	01:17:16
2	Cu 324.752†	221597.3	210758.2	689.29 ug/L	689.29 ppb	01:17:16
2	Mn 257.610†	2131314.7	2087713.2	2749.6 ug/L	2749.6 ppb	01:17:16
2	Mo 202.031†	5286.1	5164.9	463.22 ug/L	463.22 ppb	01:17:36
2	Ni 231.604†	17350.8	16906.0	527.59 ug/L	527.59 ppb	01:17:36

2	P 214.914†	2591.0	2370.3	1502.5 ug/L	1502.5 ppb	01:17:36
2	Pb 220.353†	3989.1	3967.1	602.79 ug/L	602.79 ppb	01:17:36
2	S 181.975 Axial†	3120.2	3032.7	5298.8 ug/L	5298.8 ppb	01:17:36
2	Sb 206.836†	1050.9	1003.0	428.49 ug/L	428.49 ppb	01:17:36
2	Se 196.026†	191.5	204.5	537.97 ug/L	537.97 ppb	01:17:36
2	Si 251.611†	1072065.5	1049835.8	39083 ug/L	39083 ppb	01:17:16
2	Sn 189.927†	2113.0	2067.1	454.99 ug/L	454.99 ppb	01:17:36
2	Ti 334.940†	2257138.0	2212524.9	3807.5 ug/L	3807.5 ppb	01:17:16
2	Tl 190.801†	1062.3	1065.9	453.45 ug/L	453.45 ppb	01:17:36
2	U 409.014†	8276.1	10143.7	284.18 ug/L	284.18 ppb	01:17:16
2	V 292.402†	81274.2	81056.4	611.33 ug/L	611.33 ppb	01:17:16
2	Zn 213.857†	89729.4	87306.3	1015.8 ug/L	1015.8 ppb	01:17:16
2	SiO2†	1077572.4	1055203.3	84293 ug/L	84293 ppb	01:18:16
3	Sc Radial	4258.2	4258.2	106 %		01:16:40
3	Y RADIAL	5333.9	5333.9	118.1 %		01:16:40
3	Al 396.153Radial†	88908.9	84304.5	89826 ug/L	89826 ppb	01:16:20
3	Ca 317.933Radial†	10870.9	10281.0	20888 ug/L	20888 ppb	01:16:20
3	Fe 238.204 Radial†	9692.5	9172.9	114720 ug/L	114720 ppb	01:16:20
3	K 766.490 Radial†	96046.8	88183.4	17593 ug/L	17593 ppb	01:16:20
3	Mg 279.077 IEC†	501.9	474.8	20625 ug/L	20625 ppb	01:16:40
3	Na 589.592 Radial†	15081.4	14747.7	5791.6 ug/L	5791.6 ppb	01:16:20
3	Sr 421.552†	70984.3	67174.5	571.87 ug/L	571.87 ppb	01:16:20
3	Sc 361.383	861889.3	861889.3	102.62 %		01:17:43
3	Y 371.029	850498.8	850498.8	118.77 %		01:17:43
3	Ag 328.068†	89981.6	87427.8	478.23 ug/L	478.23 ppb	01:17:43
3	As 188.979†	859.4	858.2	518.84 ug/L	518.84 ppb	01:18:04
3	B 249.677†	18937.9	18703.9	494.07 ug/L	494.07 ppb	01:17:43
3	Ba 233.527†	103464.3	100800.7	949.82 ug/L	949.82 ppb	01:17:43
3	Be 313.107†	1208678.9	1182042.1	488.55 ug/L	488.55 ppb	01:17:43
3	Cd 226.502†	34356.9	33645.0	463.07 ug/L	463.07 ppb	01:18:04
3	Co 228.616†	19617.7	19155.1	490.19 ug/L	490.19 ppb	01:18:04
3	Cr 267.716†	43739.4	42526.2	566.57 ug/L	566.57 ppb	01:17:43
3	Cu 324.752†	223349.5	211286.9	691.01 ug/L	691.01 ppb	01:17:43
3	Mn 257.610†	2140214.9	2085048.6	2746.2 ug/L	2746.2 ppb	01:17:43
3	Mo 202.031†	5320.5	5170.3	463.71 ug/L	463.71 ppb	01:18:04
3	Ni 231.604†	17545.0	17002.8	530.61 ug/L	530.61 ppb	01:18:04
3	P 214.914†	2634.5	2399.0	1522.6 ug/L	1522.6 ppb	01:18:04
3	Pb 220.353†	4054.1	4009.3	609.04 ug/L	609.04 ppb	01:18:04
3	S 181.975 Axial†	3161.9	3056.7	5340.9 ug/L	5340.9 ppb	01:18:04
3	Sb 206.836†	1062.6	1008.8	431.01 ug/L	431.01 ppb	01:18:04
3	Se 196.026†	192.6	204.6	538.47 ug/L	538.47 ppb	01:18:04
3	Si 251.611†	1077493.9	1049422.7	39068 ug/L	39068 ppb	01:17:43
3	Sn 189.927†	2132.6	2075.0	456.70 ug/L	456.70 ppb	01:18:04
3	Ti 334.940†	2268547.7	2211636.4	3805.9 ug/L	3805.9 ppb	01:17:43
3	Tl 190.801†	1067.3	1065.1	453.10 ug/L	453.10 ppb	01:18:04
3	U 409.014†	8255.4	10079.5	282.27 ug/L	282.27 ppb	01:17:43
3	V 292.402†	81458.0	80803.0	609.35 ug/L	609.35 ppb	01:17:43
3	Zn 213.857†	90118.2	87208.0	1014.5 ug/L	1014.5 ppb	01:17:43
3	SiO2†	1085014.0	1056722.6	84415 ug/L	84415 ppb	01:18:22

Mean Data: 1202054508|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859380.6	102.32 %		0.281			0.27%
Sc Radial	4263.4	106 %		0.8			0.77%
Y 371.029	848325.7	118.47 %		0.264			0.22%
Y RADIAL	5334.7	118.1 %		0.58			0.49%
Ag 328.068†	87425.4	477.92 ug/L		0.605	477.92 ppb	0.605	0.13%
Al 396.153Radial†	83608.8	89085 ug/L		1580.3	89085 ppb	1580.3	1.77%
As 188.979†	847.8	513.05 ug/L		5.046	513.05 ppb	5.046	0.98%
B 249.677†	18705.8	494.29 ug/L		1.662	494.29 ppb	1.662	0.34%
Ba 233.527†	100928.6	950.99 ug/L		1.014	950.99 ppb	1.014	0.11%
Be 313.107†	1181876.2	488.49 ug/L		0.558	488.49 ppb	0.558	0.11%
Ca 317.933Radial†	10231.7	20788 ug/L		339.0	20788 ppb	339.0	1.63%
Cd 226.502†	33542.3	461.72 ug/L		1.299	461.72 ppb	1.299	0.28%
Co 228.616†	19082.6	488.32 ug/L		1.638	488.32 ppb	1.638	0.34%
Cr 267.716†	42493.4	566.04 ug/L		0.604	566.04 ppb	0.604	0.11%
Cu 324.752†	210980.2	689.97 ug/L		0.920	689.97 ppb	0.920	0.13%
Fe 238.204 Radial†	9093.6	113730 ug/L		1565.0	113730 ppb	1565.0	1.38%
K 766.490 Radial†	87655.9	17488 ug/L		278.7	17488 ppb	278.7	1.59%

Mg 279.077 IEC†	473.0	20550 ug/L	143.1	20550 ppb	143.1	0.70%
Mn 257.610†	2087050.0	2748.7 ug/L	2.22	2748.7 ppb	2.22	0.08%
Mo 202.031†	5161.7	462.87 ug/L	1.050	462.87 ppb	1.050	0.23%
Na 589.592 Radial†	14636.8	5748.1 ug/L	89.77	5748.1 ppb	89.77	1.56%
Ni 231.604†	16946.2	528.85 ug/L	1.575	528.85 ppb	1.575	0.30%
P 214.914†	2386.2	1514.2 ug/L	10.43	1514.2 ppb	10.43	0.69%
Pb 220.353†	3988.5	605.88 ug/L	3.124	605.88 ppb	3.124	0.52%
S 181.975 Axial†	3043.1	5317.2 ug/L	21.55	5317.2 ppb	21.55	0.41%
Sb 206.836†	1002.4	428.28 ug/L	2.836	428.28 ppb	2.836	0.66%
Se 196.026†	208.6	538.40 ug/L	0.398	538.40 ppb	0.398	0.07%
Si 251.611†	1049551.5	39072 ug/L	9.2	39072 ppb	9.2	0.02%
Sn 189.927†	2068.8	455.36 ug/L	1.205	455.36 ppb	1.205	0.26%
Sr 421.552†	66769.2	568.42 ug/L	9.332	568.42 ppb	9.332	1.64%
Ti 334.940†	2212550.4	3807.5 ug/L	1.57	3807.5 ppb	1.57	0.04%
Tl 190.801†	1062.5	452.12 ug/L	2.016	452.12 ppb	2.016	0.45%
U 409.014†	10061.2	281.84 ug/L	2.573	281.84 ppb	2.573	0.91%
V 292.402†	80951.7	610.63 ug/L	1.106	610.63 ppb	1.106	0.18%
Zn 213.857†	87280.3	1015.6 ug/L	0.94	1015.6 ppb	0.94	0.09%
SiO2†	1055852.4	84345 ug/L	62.6	84345 ppb	62.6	0.07%

Sequence No.: 76

Sample ID: 1202054509|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 3/26/2010 01:20:33

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054509|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4255.1	4255.1	105 %			01:22:47
1	Y RADIAL	5314.6	5314.6	117.6 %			01:22:47
1	Al 396.153Radial†	85088.2	80743.8	86031 ug/L		86031 ppb	01:22:27
1	Ca 317.933Radial†	10713.1	10138.9	20600 ug/L		20600 ppb	01:22:27
1	Fe 238.204 Radial†	9220.6	8732.2	109210 ug/L		109210 ppb	01:22:27
1	K 766.490 Radial†	85748.4	78486.8	15658 ug/L		15658 ppb	01:22:27
1	Mg 279.077 IEC†	422.6	399.9	17361 ug/L		17361 ppb	01:22:47
1	Na 589.592 Radial†	14947.8	14631.5	5746.0 ug/L		5746.0 ppb	01:22:27
1	Sr 421.552†	70607.0	66865.9	569.25 ug/L		569.25 ppb	01:22:27
1	Sc 361.383	867095.9	867095.9	103.24 %			01:23:46
1	Y 371.029	850679.1	850679.1	118.80 %			01:23:46
1	Ag 328.068†	90888.9	87780.1	478.25 ug/L		478.25 ppb	01:23:46
1	As 188.979†	846.7	841.0	506.92 ug/L		506.92 ppb	01:24:06
1	B 249.677†	19065.7	18716.9	495.34 ug/L		495.34 ppb	01:23:46
1	Ba 233.527†	98585.2	95469.5	899.65 ug/L		899.65 ppb	01:23:46
1	Be 313.107†	1212666.3	1178832.1	486.89 ug/L		486.89 ppb	01:23:46
1	Cd 226.502†	34320.6	33408.8	460.30 ug/L		460.30 ppb	01:24:06
1	Co 228.616†	19495.3	18921.8	484.50 ug/L		484.50 ppb	01:24:06
1	Cr 267.716†	43696.8	42229.0	562.10 ug/L		562.10 ppb	01:23:46
1	Cu 324.752†	223717.0	210336.0	687.63 ug/L		687.63 ppb	01:23:46
1	Mn 257.610†	1986844.1	1923973.4	2534.4 ug/L		2534.4 ppb	01:23:46
1	Mo 202.031†	5322.2	5140.8	460.68 ug/L		460.68 ppb	01:24:06
1	Ni 231.604†	17341.0	16702.6	521.24 ug/L		521.24 ppb	01:24:06
1	P 214.914†	2261.1	2021.9	1255.5 ug/L		1255.5 ppb	01:24:06
1	Pb 220.353†	3965.8	3900.0	592.50 ug/L		592.50 ppb	01:24:06
1	S 181.975 Axial†	3146.9	3023.6	5283.7 ug/L		5283.7 ppb	01:24:06
1	Sb 206.836†	1050.8	991.2	423.96 ug/L		423.96 ppb	01:24:06
1	Se 196.026†	209.4	219.8	532.73 ug/L		532.73 ppb	01:24:06
1	Si 251.611†	1174801.5	1137368.8	42342 ug/L		42342 ppb	01:23:46
1	Sn 189.927†	2106.3	2037.1	448.56 ug/L		448.56 ppb	01:24:06
1	Ti 334.940†	2187614.6	2119972.4	3648.4 ug/L		3648.4 ppb	01:23:46
1	Tl 190.801†	1079.6	1070.8	453.02 ug/L		453.02 ppb	01:24:06
1	U 409.014†	8946.4	10700.6	301.18 ug/L		301.18 ppb	01:23:46
1	V 292.402†	80479.5	79378.7	599.28 ug/L		599.28 ppb	01:23:46
1	Zn 213.857†	80896.8	77748.9	903.06 ug/L		903.06 ppb	01:23:46
1	SiO2†	1178923.3	1141333.2	91175 ug/L		91175 ppb	01:25:07
2	Sc Radial	4260.4	4260.4	106 %			01:23:12
2	Y RADIAL	5308.4	5308.4	117.5 %			01:23:12
2	Al 396.153Radial†	85138.8	80691.3	85975 ug/L		85975 ppb	01:22:52
2	Ca 317.933Radial†	10624.6	10042.4	20404 ug/L		20404 ppb	01:22:52
2	Fe 238.204 Radial†	9157.7	8661.7	108330 ug/L		108330 ppb	01:22:52
2	K 766.490 Radial†	85821.7	78454.9	15652 ug/L		15652 ppb	01:22:52
2	Mg 279.077 IEC†	421.8	398.7	17306 ug/L		17306 ppb	01:23:12
2	Na 589.592 Radial†	14903.1	14571.6	5722.5 ug/L		5722.5 ppb	01:22:52
2	Sr 421.552†	70338.7	66528.5	566.37 ug/L		566.37 ppb	01:22:52
2	Sc 361.383	859686.0	859686.0	102.36 %			01:24:13
2	Y 371.029	845026.8	845026.8	118.01 %			01:24:13
2	Ag 328.068†	90079.8	87748.5	477.82 ug/L		477.82 ppb	01:24:13
2	As 188.979†	861.0	862.0	517.91 ug/L		517.91 ppb	01:24:33
2	B 249.677†	18884.4	18698.9	494.98 ug/L		494.98 ppb	01:24:13
2	Ba 233.527†	97649.8	95378.8	898.77 ug/L		898.77 ppb	01:24:13
2	Be 313.107†	1204900.0	1181369.0	487.90 ug/L		487.90 ppb	01:24:13
2	Cd 226.502†	34309.8	33684.8	464.29 ug/L		464.29 ppb	01:24:33
2	Co 228.616†	19488.5	19077.9	488.60 ug/L		488.60 ppb	01:24:33
2	Cr 267.716†	43413.9	42317.5	563.16 ug/L		563.16 ppb	01:24:13
2	Cu 324.752†	220757.2	209312.2	684.27 ug/L		684.27 ppb	01:24:13
2	Mn 257.610†	1967790.3	1921946.4	2531.7 ug/L		2531.7 ppb	01:24:13
2	Mo 202.031†	5315.7	5178.9	463.96 ug/L		463.96 ppb	01:24:33
2	Ni 231.604†	17343.6	16850.0	525.84 ug/L		525.84 ppb	01:24:33

2	P 214.914†	2232.5	2012.8	1250.4 ug/L	1250.4 ppb	01:24:33
2	Pb 220.353†	3967.1	3934.4	597.81 ug/L	597.81 ppb	01:24:33
2	S 181.975 Axial†	3137.7	3040.9	5314.0 ug/L	5314.0 ppb	01:24:33
2	Sb 206.836†	1048.4	997.6	426.87 ug/L	426.87 ppb	01:24:33
2	Se 196.026†	213.1	225.1	534.39 ug/L	534.39 ppb	01:24:33
2	Si 251.611†	1161801.6	1134476.5	42234 ug/L	42234 ppb	01:24:13
2	Sn 189.927†	2112.8	2060.9	453.86 ug/L	453.86 ppb	01:24:33
2	Ti 334.940†	2164702.0	2115851.5	3641.3 ug/L	3641.3 ppb	01:24:13
2	Tl 190.801†	1064.0	1064.5	450.53 ug/L	450.53 ppb	01:24:33
2	U 409.014†	8676.2	10511.2	295.71 ug/L	295.71 ppb	01:24:13
2	V 292.402†	79760.6	79348.3	599.22 ug/L	599.22 ppb	01:24:13
2	Zn 213.857†	80066.0	77612.7	901.55 ug/L	901.55 ppb	01:24:13
2	SiO2†	1173718.2	1146090.3	91555 ug/L	91555 ppb	01:25:13
3	Sc Radial	4219.8	4219.8	105 %		01:23:37
3	Y RADIAL	5278.0	5278.0	116.8 %		01:23:37
3	Al 396.153Radial†	84217.4	80584.8	85862 ug/L	85862 ppb	01:23:17
3	Ca 317.933Radial†	10564.6	10081.7	20484 ug/L	20484 ppb	01:23:17
3	Fe 238.204 Radial†	9098.1	8688.0	108660 ug/L	108660 ppb	01:23:17
3	K 766.490 Radial†	85056.1	78503.6	15661 ug/L	15661 ppb	01:23:17
3	Mg 279.077 IEC†	423.6	404.2	17550 ug/L	17550 ppb	01:23:37
3	Na 589.592 Radial†	14725.1	14536.9	5708.9 ug/L	5708.9 ppb	01:23:17
3	Sr 421.552†	69673.0	66531.8	566.40 ug/L	566.40 ppb	01:23:17
3	Sc 361.383	860370.3	860370.3	102.44 %		01:24:40
3	Y 371.029	845333.1	845333.1	118.05 %		01:24:40
3	Ag 328.068†	90027.3	87627.3	477.31 ug/L	477.31 ppb	01:24:40
3	As 188.979†	850.0	850.6	511.91 ug/L	511.91 ppb	01:25:00
3	B 249.677†	18888.2	18688.0	494.63 ug/L	494.63 ppb	01:24:40
3	Ba 233.527†	97846.4	95494.8	899.87 ug/L	899.87 ppb	01:24:40
3	Be 313.107†	1208648.9	1184092.3	489.02 ug/L	489.02 ppb	01:24:40
3	Cd 226.502†	34171.8	33523.4	461.98 ug/L	461.98 ppb	01:25:00
3	Co 228.616†	19426.2	19001.9	486.61 ug/L	486.61 ppb	01:25:00
3	Cr 267.716†	43540.4	42407.2	564.36 ug/L	564.36 ppb	01:24:40
3	Cu 324.752†	220791.8	209174.4	683.84 ug/L	683.84 ppb	01:24:40
3	Mn 257.610†	1974483.7	1926951.2	2538.3 ug/L	2538.3 ppb	01:24:40
3	Mo 202.031†	5307.1	5166.4	462.89 ug/L	462.89 ppb	01:25:00
3	Ni 231.604†	17269.8	16764.4	523.17 ug/L	523.17 ppb	01:25:00
3	P 214.914†	2241.1	2019.5	1255.0 ug/L	1255.0 ppb	01:25:00
3	Pb 220.353†	3944.2	3909.0	593.90 ug/L	593.90 ppb	01:25:00
3	S 181.975 Axial†	3125.2	3026.3	5288.4 ug/L	5288.4 ppb	01:25:00
3	Sb 206.836†	1038.5	987.1	422.33 ug/L	422.33 ppb	01:25:00
3	Se 196.026†	221.1	232.8	541.44 ug/L	541.44 ppb	01:25:00
3	Si 251.611†	1165416.1	1137102.1	42332 ug/L	42332 ppb	01:24:40
3	Sn 189.927†	2091.8	2038.8	448.96 ug/L	448.96 ppb	01:25:00
3	Ti 334.940†	2168624.4	2117998.5	3645.0 ug/L	3645.0 ppb	01:24:40
3	Tl 190.801†	1051.9	1051.9	445.72 ug/L	445.72 ppb	01:25:00
3	U 409.014†	8752.8	10579.2	297.67 ug/L	297.67 ppb	01:24:40
3	V 292.402†	79928.9	79450.6	599.94 ug/L	599.94 ppb	01:24:40
3	Zn 213.857†	80380.5	77857.4	904.42 ug/L	904.42 ppb	01:24:40
3	SiO2†	1179501.0	1150823.3	91933 ug/L	91933 ppb	01:25:19

Mean Data: 1202054509|958057|1

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Sc 361.383	862384.1	102.68 %		0.488				0.47%
Sc Radial	4245.1	105 %		0.5				0.52%
Y 371.029	847013.0	118.29 %		0.444				0.38%
Y RADIAL	5300.3	117.3 %		0.43				0.37%
Ag 328.068†	87718.7	477.80 ug/L		0.468	477.80 ppb	0.468		0.10%
Al 396.153Radial†	80673.3	85956 ug/L		86.4	85956 ppb	86.4		0.10%
As 188.979†	851.2	512.25 ug/L		5.503	512.25 ppb	5.503		1.07%
B 249.677†	18701.3	494.98 ug/L		0.356	494.98 ppb	0.356		0.07%
Ba 233.527†	95447.7	899.43 ug/L		0.581	899.43 ppb	0.581		0.06%
Be 313.107†	1181431.1	487.94 ug/L		1.064	487.94 ppb	1.064		0.22%
Ca 317.933Radial†	10087.7	20496 ug/L		98.5	20496 ppb	98.5		0.48%
Cd 226.502†	33539.0	462.19 ug/L		2.001	462.19 ppb	2.001		0.43%
Co 228.616†	19000.5	486.57 ug/L		2.049	486.57 ppb	2.049		0.42%
Cr 267.716†	42317.9	563.21 ug/L		1.133	563.21 ppb	1.133		0.20%
Cu 324.752†	209607.6	685.24 ug/L		2.077	685.24 ppb	2.077		0.30%
Fe 238.204 Radial†	8694.0	108730 ug/L		445.2	108730 ppb	445.2		0.41%
K 766.490 Radial†	78481.8	15657 ug/L		4.9	15657 ppb	4.9		0.03%

Mg 279.077 IEC†	400.9	17406 ug/L	128.0	17406 ppb	128.0	0.74%
Mn 257.610†	1924290.3	2534.8 ug/L	3.31	2534.8 ppb	3.31	0.13%
Mo 202.031†	5162.0	462.51 ug/L	1.670	462.51 ppb	1.670	0.36%
Na 589.592 Radial†	14580.0	5725.8 ug/L	18.78	5725.8 ppb	18.78	0.33%
Ni 231.604†	16772.3	523.42 ug/L	2.310	523.42 ppb	2.310	0.44%
P 214.914†	2018.0	1253.6 ug/L	2.82	1253.6 ppb	2.82	0.22%
Pb 220.353†	3914.5	594.74 ug/L	2.752	594.74 ppb	2.752	0.46%
S 181.975 Axial†	3030.3	5295.4 ug/L	16.29	5295.4 ppb	16.29	0.31%
Sb 206.836†	991.9	424.39 ug/L	2.300	424.39 ppb	2.300	0.54%
Se 196.026†	225.9	536.19 ug/L	4.623	536.19 ppb	4.623	0.86%
Si 251.611†	1136315.8	42303 ug/L	59.5	42303 ppb	59.5	0.14%
Sn 189.927†	2045.6	450.46 ug/L	2.952	450.46 ppb	2.952	0.66%
Sr 421.552†	66642.1	567.34 ug/L	1.650	567.34 ppb	1.650	0.29%
Ti 334.940†	2117940.8	3644.9 ug/L	3.56	3644.9 ppb	3.56	0.10%
Tl 190.801†	1062.4	449.76 ug/L	3.709	449.76 ppb	3.709	0.82%
U 409.014†	10597.0	298.18 ug/L	2.773	298.18 ppb	2.773	0.93%
V 292.402†	79392.5	599.48 ug/L	0.404	599.48 ppb	0.404	0.07%
Zn 213.857†	77739.7	903.01 ug/L	1.439	903.01 ppb	1.439	0.16%
SiO2†	1146082.3	91554 ug/L	379.1	91554 ppb	379.1	0.41%

Sequence No.: 77

Sample ID: 1202054507|958057|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 98

Date Collected: 3/26/2010 01:27:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054507|958057|5

Rep#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4108.3	4108.3	102 %			01:29:44
1	Y RADIAL	4589.8	4589.8	101.6 %			01:29:24
1	Al 396.153Radial†	7296.9	7244.2	7720.6 ug/L		7720.6 ppb	01:29:24
1	Ca 317.933Radial†	1366.9	1325.0	2692.0 ug/L		2692.0 ppb	01:29:44
1	Fe 238.204 Radial†	1399.4	1365.0	17070 ug/L		17070 ppb	01:29:44
1	K 766.490 Radial†	9437.9	6463.6	1289.2 ug/L		1289.2 ppb	01:29:24
1	Mg 279.077 IEC†	39.0	37.6	1625.1 ug/L		1625.1 ppb	01:29:44
1	Na 589.592 Radial†	14.9	475.5	186.73 ug/L		186.73 ppb	01:29:24
1	Sr 421.552†	2087.7	1979.9	16.839 ug/L		16.839 ppb	01:29:24
1	Sc 361.383	843285.8	843285.8	100.41 %			01:30:41
1	Y 371.029	732759.5	732759.5	102.33 %			01:30:41
1	Ag 328.068†	-754.5	-1004.9	0.2772 ug/L		0.2772 ppb	01:30:41
1	As 188.979†	-29.3	-8.4	3.4066 ug/L		3.4066 ppb	01:31:01
1	B 249.677†	-30.9	219.4	3.2478 ug/L		3.2478 ppb	01:30:41
1	Ba 233.527†	7438.9	7390.1	69.843 ug/L		69.843 ppb	01:30:41
1	Be 313.107†	-4217.6	62.3	1.0485 ug/L		1.0485 ppb	01:30:41
1	Cd 226.502†	-15.8	150.6	0.3625 ug/L		0.3625 ppb	01:31:01
1	Co 228.616†	106.7	145.2	2.6139 ug/L		2.6139 ppb	01:31:01
1	Cr 267.716†	1056.2	957.0	14.305 ug/L		14.305 ppb	01:31:01
1	Cu 324.752†	15313.3	8898.2	29.769 ug/L		29.769 ppb	01:30:41
1	Mn 257.610†	285495.9	283882.1	374.09 ug/L		374.09 ppb	01:30:41
1	Mo 202.031†	5.7	-8.5	0.6086 ug/L		0.6086 ppb	01:31:01
1	Ni 231.604†	370.4	275.3	8.5928 ug/L		8.5928 ppb	01:31:01
1	P 214.914†	405.2	235.3	151.55 ug/L		151.55 ppb	01:31:01
1	Pb 220.353†	83.4	141.9	20.687 ug/L		20.687 ppb	01:31:01
1	S 181.975 Axial†	77.3	52.6	90.745 ug/L		90.745 ppb	01:31:01
1	Sb 206.836†	36.3	9.5	2.1615 ug/L		2.1615 ppb	01:31:01
1	Se 196.026†	-84.3	-67.0	0.1228 ug/L		0.1228 ppb	01:31:01
1	Si 251.611†	202904.8	201553.9	7504.5 ug/L		7504.5 ppb	01:30:41
1	Sn 189.927†	-9.5	-12.6	-3.2871 ug/L		-3.2871 ppb	01:31:01
1	Ti 334.940†	261940.4	261958.2	450.93 ug/L		450.93 ppb	01:30:41
1	Tl 190.801†	-37.5	-12.3	0.7211 ug/L		0.7211 ppb	01:31:01
1	U 409.014†	-2807.5	-760.9	-24.364 ug/L		-24.364 ppb	01:30:41
1	V 292.402†	1237.1	2659.6	17.513 ug/L		17.513 ppb	01:30:41
1	Zn 213.857†	6937.9	6303.3	72.233 ug/L		72.233 ppb	01:30:41
1	SiO2†	201747.6	200373.6	16009 ug/L		16009 ppb	01:31:57
2	Sc Radial	4100.8	4100.8	102 %			01:30:09
2	Y RADIAL	4666.6	4666.6	103.3 %			01:29:49
2	Al 396.153Radial†	7395.2	7354.1	7837.7 ug/L		7837.7 ppb	01:29:49
2	Ca 317.933Radial†	1369.8	1330.3	2702.8 ug/L		2702.8 ppb	01:30:09
2	Fe 238.204 Radial†	1400.6	1368.7	17116 ug/L		17116 ppb	01:30:09
2	K 766.490 Radial†	9555.5	6596.3	1315.7 ug/L		1315.7 ppb	01:29:49
2	Mg 279.077 IEC†	39.6	38.3	1653.1 ug/L		1653.1 ppb	01:30:09
2	Na 589.592 Radial†	8.4	469.2	184.26 ug/L		184.26 ppb	01:29:49
2	Sr 421.552†	2142.6	2037.5	17.331 ug/L		17.331 ppb	01:29:49
2	Sc 361.383	838730.9	838730.9	99.866 %			01:31:06
2	Y 371.029	728738.0	728738.0	101.77 %			01:31:06
2	Ag 328.068†	-840.8	-1095.4	-0.1596 ug/L		-0.1596 ppb	01:31:06
2	As 188.979†	-30.9	-10.1	2.4807 ug/L		2.4807 ppb	01:31:26
2	B 249.677†	-57.6	192.5	2.5004 ug/L		2.5004 ppb	01:31:06
2	Ba 233.527†	7395.1	7386.5	69.810 ug/L		69.810 ppb	01:31:06
2	Be 313.107†	-4201.5	55.6	1.0472 ug/L		1.0472 ppb	01:31:06
2	Cd 226.502†	-2.6	163.8	0.5419 ug/L		0.5419 ppb	01:31:26
2	Co 228.616†	111.0	150.0	2.7392 ug/L		2.7392 ppb	01:31:26
2	Cr 267.716†	1057.9	964.3	14.409 ug/L		14.409 ppb	01:31:26
2	Cu 324.752†	15278.1	8945.8	29.930 ug/L		29.930 ppb	01:31:06
2	Mn 257.610†	284123.8	284052.3	374.31 ug/L		374.31 ppb	01:31:06
2	Mo 202.031†	13.1	-1.1	1.2624 ug/L		1.2624 ppb	01:31:26
2	Ni 231.604†	354.0	260.9	8.1428 ug/L		8.1428 ppb	01:31:26

2	P 214.914†	408.6	240.9	155.53 ug/L	155.53 ppb	01:31:26
2	Pb 220.353†	102.6	161.5	23.675 ug/L	23.675 ppb	01:31:26
2	S 181.975 Axial†	79.3	55.0	94.918 ug/L	94.918 ppb	01:31:26
2	Sb 206.836†	26.9	0.3	-1.7236 ug/L	-1.7236 ppb	01:31:26
2	Se 196.026†	-79.4	-62.5	3.8342 ug/L	3.8342 ppb	01:31:26
2	Si 251.611†	201600.3	201345.2	7496.7 ug/L	7496.7 ppb	01:31:06
2	Sn 189.927†	-8.5	-11.6	-3.0764 ug/L	-3.0764 ppb	01:31:26
2	Ti 334.940†	260897.1	262330.2	451.58 ug/L	451.58 ppb	01:31:06
2	Tl 190.801†	-36.6	-11.6	1.0051 ug/L	1.0051 ppb	01:31:26
2	U 409.014†	-3040.2	-1009.1	-31.673 ug/L	-31.673 ppb	01:31:06
2	V 292.402†	1206.2	2635.4	17.314 ug/L	17.314 ppb	01:31:06
2	Zn 213.857†	6938.1	6340.9	72.677 ug/L	72.677 ppb	01:31:06
2	SiO2†	200262.1	199977.2	15977 ug/L	15977 ppb	01:32:03
3	Sc Radial	4049.5	4049.5	100 %		01:30:34
3	Y RADIAL	4669.0	4669.0	103.3 %		01:30:14
3	Al 396.153Radial†	7404.6	7455.6	7945.9 ug/L	7945.9 ppb	01:30:14
3	Ca 317.933Radial†	1354.9	1332.4	2707.1 ug/L	2707.1 ppb	01:30:34
3	Fe 238.204 Radial†	1385.4	1371.0	17144 ug/L	17144 ppb	01:30:34
3	K 766.490 Radial†	9682.1	6841.3	1364.6 ug/L	1364.6 ppb	01:30:14
3	Mg 279.077 IEC†	40.8	39.9	1725.9 ug/L	1725.9 ppb	01:30:34
3	Na 589.592 Radial†	54.9	515.6	202.49 ug/L	202.49 ppb	01:30:14
3	Sr 421.552†	2097.6	2019.4	17.176 ug/L	17.176 ppb	01:30:14
3	Sc 361.383	829882.9	829882.9	98.813 %		01:31:32
3	Y 371.029	721143.2	721143.2	100.71 %		01:31:32
3	Ag 328.068†	-880.4	-1144.3	-0.3981 ug/L	-0.3981 ppb	01:31:32
3	As 188.979†	-27.1	-6.6	4.3693 ug/L	4.3693 ppb	01:31:52
3	B 249.677†	-55.3	194.2	2.5434 ug/L	2.5434 ppb	01:31:32
3	Ba 233.527†	7392.6	7462.9	70.527 ug/L	70.527 ppb	01:31:32
3	Be 313.107†	-4248.7	-37.1	1.0088 ug/L	1.0088 ppb	01:31:32
3	Cd 226.502†	-26.6	139.5	0.1955 ug/L	0.1955 ppb	01:31:52
3	Co 228.616†	112.6	152.9	2.8135 ug/L	2.8135 ppb	01:31:52
3	Cr 267.716†	1052.5	970.2	14.487 ug/L	14.487 ppb	01:31:52
3	Cu 324.752†	14990.9	8818.3	29.517 ug/L	29.517 ppb	01:31:32
3	Mn 257.610†	281278.5	284206.1	374.51 ug/L	374.51 ppb	01:31:32
3	Mo 202.031†	9.7	-4.4	0.9803 ug/L	0.9803 ppb	01:31:52
3	Ni 231.604†	347.3	257.9	8.0499 ug/L	8.0499 ppb	01:31:52
3	P 214.914†	414.6	251.4	163.13 ug/L	163.13 ppb	01:31:52
3	Pb 220.353†	87.4	147.3	21.549 ug/L	21.549 ppb	01:31:52
3	S 181.975 Axial†	75.5	52.0	89.625 ug/L	89.625 ppb	01:31:52
3	Sb 206.836†	29.2	2.9	-0.6478 ug/L	-0.6478 ppb	01:31:52
3	Se 196.026†	-75.5	-59.5	6.3709 ug/L	6.3709 ppb	01:31:52
3	Si 251.611†	199942.2	201819.4	7514.4 ug/L	7514.4 ppb	01:31:32
3	Sn 189.927†	-12.7	-15.9	-4.0327 ug/L	-4.0327 ppb	01:31:52
3	Ti 334.940†	257936.1	262119.0	451.21 ug/L	451.21 ppb	01:31:32
3	Tl 190.801†	-48.8	-24.3	-3.9230 ug/L	-3.9230 ppb	01:31:52
3	U 409.014†	-2997.8	-998.6	-31.367 ug/L	-31.367 ppb	01:31:32
3	V 292.402†	1190.7	2632.6	17.287 ug/L	17.287 ppb	01:31:32
3	Zn 213.857†	6850.9	6326.8	72.505 ug/L	72.505 ppb	01:31:32
3	SiO2†	201287.5	203153.0	16231 ug/L	16231 ppb	01:32:08

Mean Data: 1202054507|958057|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837299.9	99.696 %	0.8115			0.81%
Sc Radial	4086.2	101 %	0.8			0.78%
Y 371.029	727546.9	101.60 %	0.824			0.81%
Y RADIAL	4641.8	102.7 %	1.00			0.97%
Ag 328.068†	-1081.5	-0.0935 ug/L	0.34246	-0.0935 ppb	0.34246	366.30%
Al 396.153Radial†	7351.3	7834.7 ug/L	112.64	7834.7 ppb	112.64	1.44%
As 188.979†	-8.4	3.4188 ug/L	0.94434	3.4188 ppb	0.94434	27.62%
B 249.677†	202.0	2.7639 ug/L	0.41962	2.7639 ppb	0.41962	15.18%
Ba 233.527†	7413.2	70.060 ug/L	0.4051	70.060 ppb	0.4051	0.58%
Be 313.107†	26.9	1.0348 ug/L	0.02258	1.0348 ppb	0.02258	2.18%
Ca 317.933Radial†	1329.2	2700.6 ug/L	7.77	2700.6 ppb	7.77	0.29%
Cd 226.502†	151.3	0.3666 ug/L	0.17327	0.3666 ppb	0.17327	47.26%
Co 228.616†	149.4	2.7222 ug/L	0.10088	2.7222 ppb	0.10088	3.71%
Cr 267.716†	963.8	14.400 ug/L	0.0913	14.400 ppb	0.0913	0.63%
Cu 324.752†	8887.4	29.739 ug/L	0.2078	29.739 ppb	0.2078	0.70%
Fe 238.204 Radial†	1368.3	17110 ug/L	37.7	17110 ppb	37.7	0.22%
K 766.490 Radial†	6633.7	1323.2 ug/L	38.25	1323.2 ppb	38.25	2.89%

Mg 279.077 IEC†	38.6	1668.0 ug/L	52.02	1668.0 ppb	52.02	3.12%
Mn 257.610†	284046.8	374.30 ug/L	0.214	374.30 ppb	0.214	0.06%
Mo 202.031†	-4.7	0.9504 ug/L	0.32795	0.9504 ppb	0.32795	34.51%
Na 589.592 Radial†	486.8	191.16 ug/L	9.890	191.16 ppb	9.890	5.17%
Ni 231.604†	264.7	8.2618 ug/L	0.29036	8.2618 ppb	0.29036	3.51%
P 214.914†	242.5	156.73 ug/L	5.883	156.73 ppb	5.883	3.75%
Pb 220.353†	150.2	21.971 ug/L	1.5377	21.971 ppb	1.5377	7.00%
S 181.975 Axial†	53.2	91.763 ug/L	2.7894	91.763 ppb	2.7894	3.04%
Sb 206.836†	4.3	-0.0700 ug/L	2.00596	-0.0700 ppb	2.00596	>999.9%
Se 196.026†	-63.0	3.4426 ug/L	3.14242	3.4426 ppb	3.14242	91.28%
Si 251.611†	201572.8	7505.2 ug/L	8.85	7505.2 ppb	8.85	0.12%
Sn 189.927†	-13.4	-3.4654 ug/L	0.50245	-3.4654 ppb	0.50245	14.50%
Sr 421.552†	2012.3	17.115 ug/L	0.2512	17.115 ppb	0.2512	1.47%
Ti 334.940†	262135.8	451.24 ug/L	0.322	451.24 ppb	0.322	0.07%
Tl 190.801†	-16.0	-0.7323 ug/L	2.76689	-0.7323 ppb	2.76689	377.85%
U 409.014†	-922.9	-29.135 ug/L	4.1344	-29.135 ppb	4.1344	14.19%
V 292.402†	2642.5	17.371 ug/L	0.1233	17.371 ppb	0.1233	0.71%
Zn 213.857†	6323.7	72.472 ug/L	0.2236	72.472 ppb	0.2236	0.31%
SiO2†	201167.9	16072 ug/L	138.3	16072 ppb	138.3	0.86%

Sequence No.: 78
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/26/2010 01:34:20
 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	4056.9	4056.9	101 %		01:36:12
1	Y RADIAL	4335.8	4335.8	95.97 %		01:36:12
1	Al 396.153Radial†	4416.7	4471.2	4740.6 ug/L	4740.6 ppb	01:36:12
1	Ca 317.933Radial†	2508.3	2476.9	5032.4 ug/L	5032.4 ppb	01:36:32
1	Fe 238.204 Radial†	416.1	404.7	5076.2 ug/L	5076.2 ppb	01:36:32
1	K 766.490 Radial†	26867.6	23911.6	4767.1 ug/L	4767.1 ppb	01:36:12
1	Mg 279.077 IEC†	117.2	115.9	5061.7 ug/L	5061.7 ppb	01:36:32
1	Na 589.592 Radial†	25103.5	25421.7	9983.5 ug/L	9983.5 ppb	01:36:12
1	Sr 421.552†	56066.5	55677.8	474.09 ug/L	474.09 ppb	01:36:12
1	Sc 361.383	833160.1	833160.1	99.203 %		01:37:29
1	Y 371.029	700996.4	700996.4	97.894 %		01:37:29
1	Ag 328.068†	100747.3	101303.5	513.83 ug/L	513.83 ppb	01:37:35
1	As 188.979†	906.5	934.6	505.36 ug/L	505.36 ppb	01:37:55
1	B 249.677†	17456.0	17846.4	488.25 ug/L	488.25 ppb	01:37:35
1	Ba 233.527†	53102.6	53510.8	502.90 ug/L	502.90 ppb	01:37:35
1	Be 313.107†	1216631.7	1230671.2	500.80 ug/L	500.80 ppb	01:37:29
1	Cd 226.502†	35609.0	36061.5	508.51 ug/L	508.51 ppb	01:37:35
1	Co 228.616†	19736.5	19934.0	518.90 ug/L	518.90 ppb	01:37:35
1	Cr 267.716†	38407.5	38621.2	503.86 ug/L	503.86 ppb	01:37:35
1	Cu 324.752†	159084.1	154009.8	499.36 ug/L	499.36 ppb	01:37:35
1	Mn 257.610†	383767.4	386398.9	507.27 ug/L	507.27 ppb	01:37:29
1	Mo 202.031†	5748.6	5780.6	508.66 ug/L	508.66 ppb	01:37:55
1	Ni 231.604†	16330.9	16368.5	510.80 ug/L	510.80 ppb	01:37:35
1	P 214.914†	3679.1	3540.5	2447.5 ug/L	2447.5 ppb	01:37:55
1	Pb 220.353†	3263.5	3348.5	506.21 ug/L	506.21 ppb	01:37:55
1	S 181.975 Axial†	600.9	581.3	1018.0 ug/L	1018.0 ppb	01:37:55
1	Sb 206.836†	1245.3	1228.7	540.40 ug/L	540.40 ppb	01:37:55
1	Se 196.026†	623.9	645.9	533.07 ug/L	533.07 ppb	01:37:55
1	Si 251.611†	68472.3	68497.1	2544.1 ug/L	2544.1 ppb	01:37:35
1	Sn 189.927†	2294.1	2309.4	512.09 ug/L	512.09 ppb	01:37:55
1	Ti 334.940†	289060.2	292466.4	503.04 ug/L	503.04 ppb	01:37:35
1	Tl 190.801†	1245.2	1280.2	498.37 ug/L	498.37 ppb	01:37:55
1	U 409.014†	15611.7	17772.4	521.24 ug/L	521.24 ppb	01:37:35
1	V 292.402†	63313.9	65250.3	509.83 ug/L	509.83 ppb	01:37:35
1	Zn 213.857†	42747.9	42485.0	500.03 ug/L	500.03 ppb	01:37:35
1	SiO2†	69499.6	69504.8	5539.2 ug/L	5539.2 ppb	01:39:02
2	Sc Radial	4088.3	4088.3	101 %		01:36:37
2	Y RADIAL	4370.9	4370.9	96.74 %		01:36:37
2	Al 396.153Radial†	4487.8	4507.6	4779.5 ug/L	4779.5 ppb	01:36:37
2	Ca 317.933Radial†	2483.9	2433.6	4944.4 ug/L	4944.4 ppb	01:36:57
2	Fe 238.204 Radial†	417.2	402.7	5051.0 ug/L	5051.0 ppb	01:36:57
2	K 766.490 Radial†	26973.6	23811.1	4747.1 ug/L	4747.1 ppb	01:36:37
2	Mg 279.077 IEC†	119.4	117.1	5116.5 ug/L	5116.5 ppb	01:36:57
2	Na 589.592 Radial†	25354.5	25477.7	10005 ug/L	10005 ppb	01:36:37
2	Sr 421.552†	56637.8	55813.4	475.25 ug/L	475.25 ppb	01:36:37
2	Sc 361.383	843404.9	843404.9	100.42 %		01:38:00
2	Y 371.029	710206.3	710206.3	99.180 %		01:38:00
2	Ag 328.068†	102318.1	101634.1	515.49 ug/L	515.49 ppb	01:38:06
2	As 188.979†	911.6	928.6	502.16 ug/L	502.16 ppb	01:38:26
2	B 249.677†	17866.4	18041.4	493.61 ug/L	493.61 ppb	01:38:06
2	Ba 233.527†	53720.3	53475.7	502.57 ug/L	502.57 ppb	01:38:06
2	Be 313.107†	1231355.8	1230436.4	500.70 ug/L	500.70 ppb	01:38:00
2	Cd 226.502†	36040.8	36055.5	508.43 ug/L	508.43 ppb	01:38:06
2	Co 228.616†	19986.6	19941.4	519.09 ug/L	519.09 ppb	01:38:06
2	Cr 267.716†	38815.3	38557.0	503.02 ug/L	503.02 ppb	01:38:06
2	Cu 324.752†	162132.2	155097.1	502.88 ug/L	502.88 ppb	01:38:06
2	Mn 257.610†	388031.3	385945.8	506.67 ug/L	506.67 ppb	01:38:00
2	Mo 202.031†	5794.1	5755.5	506.45 ug/L	506.45 ppb	01:38:26
2	Ni 231.604†	16594.9	16431.5	512.76 ug/L	512.76 ppb	01:38:06

2	P 214.914†	3678.8	3495.1	2414.2 ug/L	2414.2 ppb	01:38:26
2	Pb 220.353†	3272.7	3317.8	501.58 ug/L	501.58 ppb	01:38:26
2	S 181.975 Axial†	607.3	580.4	1016.4 ug/L	1016.4 ppb	01:38:26
2	Sb 206.836†	1241.8	1210.0	532.31 ug/L	532.31 ppb	01:38:26
2	Se 196.026†	614.3	628.7	519.30 ug/L	519.30 ppb	01:38:26
2	Si 251.611†	69300.2	68483.1	2543.6 ug/L	2543.6 ppb	01:38:06
2	Sn 189.927†	2295.6	2282.9	506.20 ug/L	506.20 ppb	01:38:26
2	Ti 334.940†	292803.7	292654.8	503.35 ug/L	503.35 ppb	01:38:06
2	Tl 190.801†	1263.7	1283.4	499.59 ug/L	499.59 ppb	01:38:26
2	U 409.014†	15927.9	17896.0	524.88 ug/L	524.88 ppb	01:38:06
2	V 292.402†	64258.1	65415.2	511.08 ug/L	511.08 ppb	01:38:06
2	Zn 213.857†	43293.0	42504.3	500.24 ug/L	500.24 ppb	01:38:06
2	SiO2†	68679.8	67837.4	5406.1 ug/L	5406.1 ppb	01:39:07
3	Sc Radial	4017.9	4017.9	99.6 %		01:37:02
3	Y RADIAL	4331.8	4331.8	95.88 %		01:37:02
3	Al 396.153Radial†	4446.0	4543.3	4817.6 ug/L	4817.6 ppb	01:37:02
3	Ca 317.933Radial†	2492.3	2484.9	5048.8 ug/L	5048.8 ppb	01:37:22
3	Fe 238.204 Radial†	417.3	409.9	5141.5 ug/L	5141.5 ppb	01:37:22
3	K 766.490 Radial†	26859.6	24162.5	4817.2 ug/L	4817.2 ppb	01:37:02
3	Mg 279.077 IEC†	115.1	114.9	5017.7 ug/L	5017.7 ppb	01:37:22
3	Na 589.592 Radial†	25306.7	25867.6	10159 ug/L	10159 ppb	01:37:02
3	Sr 421.552†	56129.2	56281.1	479.23 ug/L	479.23 ppb	01:37:02
3	Sc 361.383	837672.7	837672.7	99.740 %		01:38:32
3	Y 371.029	705307.7	705307.7	98.496 %		01:38:32
3	Ag 328.068†	101893.5	101905.6	516.88 ug/L	516.88 ppb	01:38:37
3	As 188.979†	901.0	924.2	499.80 ug/L	499.80 ppb	01:38:57
3	B 249.677†	17815.2	18111.8	495.53 ug/L	495.53 ppb	01:38:37
3	Ba 233.527†	53612.0	53733.2	504.99 ug/L	504.99 ppb	01:38:37
3	Be 313.107†	1224598.0	1232051.6	501.36 ug/L	501.36 ppb	01:38:32
3	Cd 226.502†	35860.4	36120.3	509.33 ug/L	509.33 ppb	01:38:37
3	Co 228.616†	19861.7	19952.4	519.37 ug/L	519.37 ppb	01:38:37
3	Cr 267.716†	38685.4	38691.3	504.78 ug/L	504.78 ppb	01:38:37
3	Cu 324.752†	161265.2	155332.6	503.65 ug/L	503.65 ppb	01:38:37
3	Mn 257.610†	385056.1	385607.0	506.24 ug/L	506.24 ppb	01:38:32
3	Mo 202.031†	5733.4	5734.2	504.59 ug/L	504.59 ppb	01:38:57
3	Ni 231.604†	16431.5	16380.7	511.18 ug/L	511.18 ppb	01:38:37
3	P 214.914†	3674.3	3515.6	2428.7 ug/L	2428.7 ppb	01:38:57
3	Pb 220.353†	3263.7	3331.0	503.56 ug/L	503.56 ppb	01:38:57
3	S 181.975 Axial†	601.9	579.1	1014.1 ug/L	1014.1 ppb	01:38:57
3	Sb 206.836†	1254.1	1230.8	541.10 ug/L	541.10 ppb	01:38:57
3	Se 196.026†	617.7	636.2	525.62 ug/L	525.62 ppb	01:38:57
3	Si 251.611†	69026.9	68681.3	2551.0 ug/L	2551.0 ppb	01:38:37
3	Sn 189.927†	2279.8	2282.6	506.16 ug/L	506.16 ppb	01:38:57
3	Ti 334.940†	291425.5	293268.2	504.42 ug/L	504.42 ppb	01:38:37
3	Tl 190.801†	1250.8	1279.1	497.95 ug/L	497.95 ppb	01:38:57
3	U 409.014†	15841.5	17918.0	525.52 ug/L	525.52 ppb	01:38:37
3	V 292.402†	63806.4	65400.2	510.93 ug/L	510.93 ppb	01:38:37
3	Zn 213.857†	43124.6	42630.6	501.74 ug/L	501.74 ppb	01:38:37
3	SiO2†	69586.6	69214.6	5516.2 ug/L	5516.2 ppb	01:39:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838079.2	99.789 %	0.6113			0.61%
Sc Radial	4054.4	101 %	0.9			0.87%
Y 371.029	705503.5	98.524 %	0.6435			0.65%
Y RADIAL	4346.2	96.20 %	0.476			0.49%
Ag 328.068†	101614.4	515.40 ug/L	1.530	515.40 ppb	1.530	0.30%
QC value within limits for Ag 328.068 Recovery = 103.08%						
Al 396.153Radial†	4507.4	4779.2 ug/L	38.48	4779.2 ppb	38.48	0.81%
QC value within limits for Al 396.153Radial Recovery = 95.58%						
As 188.979†	929.1	502.44 ug/L	2.792	502.44 ppb	2.792	0.56%
QC value within limits for As 188.979 Recovery = 100.49%						
B 249.677†	17999.9	492.47 ug/L	3.775	492.47 ppb	3.775	0.77%
QC value within limits for B 249.677 Recovery = 98.49%						
Ba 233.527†	53573.3	503.49 ug/L	1.311	503.49 ppb	1.311	0.26%
QC value within limits for Ba 233.527 Recovery = 100.70%						
Be 313.107†	1231053.1	500.95 ug/L	0.356	500.95 ppb	0.356	0.07%
QC value within limits for Be 313.107 Recovery = 100.19%						
Ca 317.933Radial†	2465.1	5008.5 ug/L	56.12	5008.5 ppb	56.12	1.12%

QC value within limits for Ca 317.933 Radial Recovery = 100.17%							
Cd	226.502†	36079.1	508.75 ug/L	0.500	508.75 ppb	0.500	0.10%
QC value within limits for Cd 226.502 Recovery = 101.75%							
Co	228.616†	19942.6	519.12 ug/L	0.234	519.12 ppb	0.234	0.05%
QC value within limits for Co 228.616 Recovery = 103.82%							
Cr	267.716†	38623.2	503.89 ug/L	0.879	503.89 ppb	0.879	0.17%
QC value within limits for Cr 267.716 Recovery = 100.78%							
Cu	324.752†	154813.2	501.97 ug/L	2.288	501.97 ppb	2.288	0.46%
QC value within limits for Cu 324.752 Recovery = 100.39%							
Fe	238.204 Radial†	405.8	5089.6 ug/L	46.71	5089.6 ppb	46.71	0.92%
QC value within limits for Fe 238.204 Radial Recovery = 101.79%							
K	766.490 Radial†	23961.7	4777.1 ug/L	36.09	4777.1 ppb	36.09	0.76%
QC value within limits for K 766.490 Radial Recovery = 95.54%							
Mg	279.077 IEC†	116.0	5065.3 ug/L	49.47	5065.3 ppb	49.47	0.98%
QC value within limits for Mg 279.077 IEC Recovery = 101.31%							
Mn	257.610†	385983.9	506.72 ug/L	0.518	506.72 ppb	0.518	0.10%
QC value within limits for Mn 257.610 Recovery = 101.34%							
Mo	202.031†	5756.7	506.57 ug/L	2.041	506.57 ppb	2.041	0.40%
QC value within limits for Mo 202.031 Recovery = 101.31%							
Na	589.592 Radial†	25589.0	10049 ug/L	95.4	10049 ppb	95.4	0.95%
QC value within limits for Na 589.592 Radial Recovery = 100.49%							
Ni	231.604†	16393.6	511.58 ug/L	1.042	511.58 ppb	1.042	0.20%
QC value within limits for Ni 231.604 Recovery = 102.32%							
P	214.914†	3517.1	2430.2 ug/L	16.70	2430.2 ppb	16.70	0.69%
QC value within limits for P 214.914 Recovery = 97.21%							
Pb	220.353†	3332.4	503.79 ug/L	2.322	503.79 ppb	2.322	0.46%
QC value within limits for Pb 220.353 Recovery = 100.76%							
S	181.975 Axial†	580.3	1016.2 ug/L	1.95	1016.2 ppb	1.95	0.19%
QC value within limits for S 181.975 Axial Recovery = 101.62%							
Sb	206.836†	1223.1	537.93 ug/L	4.884	537.93 ppb	4.884	0.91%
QC value within limits for Sb 206.836 Recovery = 107.59%							
Se	196.026†	636.9	526.00 ug/L	6.893	526.00 ppb	6.893	1.31%
QC value within limits for Se 196.026 Recovery = 105.20%							
Si	251.611†	68553.8	2546.2 ug/L	4.14	2546.2 ppb	4.14	0.16%
QC value within limits for Si 251.611 Recovery = 101.85%							
Sn	189.927†	2291.6	508.15 ug/L	3.412	508.15 ppb	3.412	0.67%
QC value within limits for Sn 189.927 Recovery = 101.63%							
Sr	421.552†	55924.1	476.19 ug/L	2.695	476.19 ppb	2.695	0.57%
QC value within limits for Sr 421.552 Recovery = 95.24%							
Ti	334.940†	292796.5	503.60 ug/L	0.726	503.60 ppb	0.726	0.14%
QC value within limits for Ti 334.940 Recovery = 100.72%							
Tl	190.801†	1280.9	498.64 ug/L	0.852	498.64 ppb	0.852	0.17%
QC value within limits for Tl 190.801 Recovery = 99.73%							
U	409.014†	17862.1	523.88 ug/L	2.308	523.88 ppb	2.308	0.44%
QC value within limits for U 409.014 Recovery = 104.78%							
V	292.402†	65355.2	510.61 ug/L	0.682	510.61 ppb	0.682	0.13%
QC value within limits for V 292.402 Recovery = 102.12%							
Zn	213.857†	42540.0	500.67 ug/L	0.932	500.67 ppb	0.932	0.19%
QC value within limits for Zn 213.857 Recovery = 100.13%							
SiO2†		68852.3	5487.2 ug/L	71.16	5487.2 ppb	71.16	1.30%
QC value within limits for SiO2 Recovery = 102.61%							

All analyte(s) passed QC.

Sequence No.: 79

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/26/2010 01:41:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4384.6	4384.6	109 %		01:43:15
1	Y RADIAL	4730.0	4730.0	104.7 %		01:43:15
1	Al 396.153Radial†	-59.1	25.2	26.881 ug/L	26.881 ppb	01:43:35
1	Ca 317.933Radial†	27.3	7.9	16.110 ug/L	16.110 ppb	01:43:35
1	Fe 238.204 Radial†	8.5	-1.2	-15.083 ug/L	-15.083 ppb	01:43:35
1	K 766.490 Radial†	2465.2	-535.3	-106.89 ug/L	-106.89 ppb	01:43:15
1	Mg 279.077 IEC†	4.0	3.0	130.97 ug/L	130.97 ppb	01:43:35
1	Na 589.592 Radial†	-360.8	128.9	50.620 ug/L	50.620 ppb	01:43:15
1	Sr 421.552†	61.6	-13.4	-0.1140 ug/L	-0.1140 ppb	01:43:15
1	Sc 361.383	817728.5	817728.5	97.365 %		01:44:32
1	Y 371.029	697345.5	697345.5	97.384 %		01:44:32
1	Ag 328.068†	170.8	-77.9	-0.3999 ug/L	-0.3999 ppb	01:44:32
1	As 188.979†	-20.6	-0.3	-0.1534 ug/L	-0.1534 ppb	01:44:52
1	B 249.677†	-241.9	1.7	0.0515 ug/L	0.0515 ppb	01:44:52
1	Ba 233.527†	15.8	-2.3	-0.0214 ug/L	-0.0214 ppb	01:44:52
1	Be 313.107†	-4384.7	-240.7	-0.0973 ug/L	-0.0973 ppb	01:44:32
1	Cd 226.502†	-169.8	-8.0	-0.1102 ug/L	-0.1102 ppb	01:44:52
1	Co 228.616†	-50.4	-12.8	-0.3336 ug/L	-0.3336 ppb	01:44:52
1	Cr 267.716†	111.1	19.2	0.2467 ug/L	0.2467 ppb	01:44:52
1	Cu 324.752†	6539.5	363.7	1.1760 ug/L	1.1760 ppb	01:44:32
1	Mn 257.610†	794.9	364.0	0.4707 ug/L	0.4707 ppb	01:44:52
1	Mo 202.031†	16.4	2.7	0.2365 ug/L	0.2365 ppb	01:44:52
1	Ni 231.604†	88.3	-3.0	-0.0922 ug/L	-0.0922 ppb	01:44:52
1	P 214.914†	190.3	27.3	19.406 ug/L	19.406 ppb	01:44:52
1	Pb 220.353†	-51.1	6.4	0.9679 ug/L	0.9679 ppb	01:44:52
1	S 181.975 Axial†	31.8	8.2	14.430 ug/L	14.430 ppb	01:44:52
1	Sb 206.836†	31.7	5.9	2.5531 ug/L	2.5531 ppb	01:44:52
1	Se 196.026†	-18.8	-2.4	-1.9340 ug/L	-1.9340 ppb	01:44:52
1	Si 251.611†	706.4	200.1	7.4464 ug/L	7.4464 ppb	01:44:52
1	Sn 189.927†	13.4	10.7	2.3754 ug/L	2.3754 ppb	01:44:52
1	Ti 334.940†	-962.2	95.1	0.1531 ug/L	0.1531 ppb	01:44:32
1	Tl 190.801†	-25.5	-1.1	-0.4099 ug/L	-0.4099 ppb	01:44:52
1	U 409.014†	-1829.6	156.1	4.5945 ug/L	4.5945 ppb	01:44:32
1	V 292.402†	-1339.9	51.3	0.4123 ug/L	0.4123 ppb	01:44:32
1	Zn 213.857†	762.7	176.9	2.1025 ug/L	2.1025 ppb	01:44:52
1	SiO2†	850.7	320.3	25.587 ug/L	25.587 ppb	01:45:48
2	Sc Radial	4143.3	4143.3	103 %		01:43:40
2	Y RADIAL	4474.2	4474.2	99.03 %		01:43:40
2	Al 396.153Radial†	-67.7	13.8	14.635 ug/L	14.635 ppb	01:44:00
2	Ca 317.933Radial†	24.2	6.4	13.040 ug/L	13.040 ppb	01:44:00
2	Fe 238.204 Radial†	10.8	1.5	18.530 ug/L	18.530 ppb	01:44:00
2	K 766.490 Radial†	2587.0	-284.6	-56.850 ug/L	-56.850 ppb	01:43:40
2	Mg 279.077 IEC†	1.7	1.0	43.542 ug/L	43.542 ppb	01:44:00
2	Na 589.592 Radial†	-324.6	144.9	56.887 ug/L	56.887 ppb	01:43:40
2	Sr 421.552†	23.2	-47.4	-0.4039 ug/L	-0.4039 ppb	01:43:40
2	Sc 361.383	831694.6	831694.6	99.028 %		01:44:57
2	Y 371.029	709451.5	709451.5	99.075 %		01:44:57
2	Ag 328.068†	162.8	-89.0	-0.4442 ug/L	-0.4442 ppb	01:44:57
2	As 188.979†	-22.2	-1.6	-0.8503 ug/L	-0.8503 ppb	01:45:17
2	B 249.677†	-235.9	11.9	0.3250 ug/L	0.3250 ppb	01:45:17
2	Ba 233.527†	4.0	-14.5	-0.1340 ug/L	-0.1340 ppb	01:45:17
2	Be 313.107†	-4506.4	-287.9	-0.1167 ug/L	-0.1167 ppb	01:44:57
2	Cd 226.502†	-174.4	-9.7	-0.1377 ug/L	-0.1377 ppb	01:45:17
2	Co 228.616†	-40.0	-1.5	-0.0372 ug/L	-0.0372 ppb	01:45:17
2	Cr 267.716†	126.0	32.3	0.4209 ug/L	0.4209 ppb	01:45:17
2	Cu 324.752†	6642.9	355.4	1.1509 ug/L	1.1509 ppb	01:44:57
2	Mn 257.610†	777.4	332.6	0.4364 ug/L	0.4364 ppb	01:45:17
2	Mo 202.031†	21.1	7.1	0.6258 ug/L	0.6258 ppb	01:45:17
2	Ni 231.604†	77.0	-15.9	-0.4961 ug/L	-0.4961 ppb	01:45:17

2	P 214.914†	190.1	23.7	16.806 ug/L	16.806 ppb	01:45:17
2	Pb 220.353†	-52.0	6.4	0.9593 ug/L	0.9593 ppb	01:45:17
2	S 181.975 Axial†	35.1	11.1	19.473 ug/L	19.473 ppb	01:45:17
2	Sb 206.836†	38.8	12.6	5.3806 ug/L	5.3806 ppb	01:45:17
2	Se 196.026†	-24.5	-7.8	-6.1717 ug/L	-6.1717 ppb	01:45:17
2	Si 251.611†	666.9	148.0	5.5019 ug/L	5.5019 ppb	01:45:17
2	Sn 189.927†	8.9	5.9	1.3113 ug/L	1.3113 ppb	01:45:17
2	Ti 334.940†	-1014.7	58.7	0.0972 ug/L	0.0972 ppb	01:44:57
2	Tl 190.801†	-31.1	-6.4	-2.4662 ug/L	-2.4662 ppb	01:45:17
2	U 409.014†	-1870.5	146.3	4.3020 ug/L	4.3020 ppb	01:44:57
2	V 292.402†	-1342.2	72.2	0.5715 ug/L	0.5715 ppb	01:44:57
2	Zn 213.857†	781.5	182.7	2.1698 ug/L	2.1698 ppb	01:45:17
2	SiO2†	645.2	98.2	7.8250 ug/L	7.8250 ppb	01:45:53
3	Sc Radial	4143.7	4143.7	103 %		01:44:05
3	Y RADIAL	4466.0	4466.0	98.85 %		01:44:05
3	Al 396.153Radial†	-72.3	9.2	9.7692 ug/L	9.7692 ppb	01:44:25
3	Ca 317.933Radial†	28.5	10.5	21.405 ug/L	21.405 ppb	01:44:25
3	Fe 238.204 Radial†	11.8	2.4	30.476 ug/L	30.476 ppb	01:44:25
3	K 766.490 Radial†	2478.6	-390.4	-77.967 ug/L	-77.967 ppb	01:44:05
3	Mg 279.077 IEC†	1.4	0.7	30.419 ug/L	30.419 ppb	01:44:25
3	Na 589.592 Radial†	-327.9	141.7	55.634 ug/L	55.634 ppb	01:44:05
3	Sr 421.552†	23.6	-47.1	-0.4010 ug/L	-0.4010 ppb	01:44:05
3	Sc 361.383	825545.9	825545.9	98.296 %		01:45:22
3	Y 371.029	704266.7	704266.7	98.351 %		01:45:22
3	Ag 328.068†	149.1	-101.7	-0.5051 ug/L	-0.5051 ppb	01:45:22
3	As 188.979†	-22.0	-1.6	-0.8360 ug/L	-0.8360 ppb	01:45:42
3	B 249.677†	-247.6	-1.7	-0.0514 ug/L	-0.0514 ppb	01:45:42
3	Ba 233.527†	17.7	-0.5	-0.0035 ug/L	-0.0035 ppb	01:45:42
3	Be 313.107†	-4541.2	-357.2	-0.1452 ug/L	-0.1452 ppb	01:45:22
3	Cd 226.502†	-164.2	-0.7	-0.0125 ug/L	-0.0125 ppb	01:45:42
3	Co 228.616†	-47.6	-9.5	-0.2448 ug/L	-0.2448 ppb	01:45:42
3	Cr 267.716†	141.7	49.1	0.6424 ug/L	0.6424 ppb	01:45:42
3	Cu 324.752†	6535.9	296.5	0.9621 ug/L	0.9621 ppb	01:45:22
3	Mn 257.610†	728.9	289.2	0.3811 ug/L	0.3811 ppb	01:45:42
3	Mo 202.031†	27.7	14.0	1.2356 ug/L	1.2356 ppb	01:45:42
3	Ni 231.604†	97.3	5.4	0.1676 ug/L	0.1676 ppb	01:45:42
3	P 214.914†	200.7	36.0	25.623 ug/L	25.623 ppb	01:45:42
3	Pb 220.353†	-49.4	8.6	1.2970 ug/L	1.2970 ppb	01:45:42
3	S 181.975 Axial†	37.9	14.1	24.764 ug/L	24.764 ppb	01:45:42
3	Sb 206.836†	32.7	6.6	2.8249 ug/L	2.8249 ppb	01:45:42
3	Se 196.026†	-15.7	0.9	0.8468 ug/L	0.8468 ppb	01:45:42
3	Si 251.611†	647.4	133.1	4.9417 ug/L	4.9417 ppb	01:45:42
3	Sn 189.927†	-0.9	-4.0	-0.8734 ug/L	-0.8734 ppb	01:45:42
3	Ti 334.940†	-1118.8	-54.8	-0.0949 ug/L	-0.0949 ppb	01:45:22
3	Tl 190.801†	-33.9	-9.4	-3.6283 ug/L	-3.6283 ppb	01:45:42
3	U 409.014†	-1948.4	53.0	1.5538 ug/L	1.5538 ppb	01:45:22
3	V 292.402†	-1406.0	-2.8	-0.0055 ug/L	-0.0055 ppb	01:45:22
3	Zn 213.857†	770.2	177.1	2.0970 ug/L	2.0970 ppb	01:45:42
3	SiO2†	654.7	112.7	8.9693 ug/L	8.9693 ppb	01:45:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	824989.7	98.230 %		0.8334			0.85%
Sc Radial	4223.9	105 %		3.5			3.30%
Y 371.029	703687.9	98.270 %		0.8482			0.86%
Y RADIAL	4556.7	100.9 %		3.32			3.29%
Ag 328.068†	-89.5	-0.4497 ug/L		0.05281	-0.4497 ppb	0.05281	11.74%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	16.1	17.095 ug/L		8.8171	17.095 ppb	8.8171	51.58%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.1	-0.6132 ug/L		0.39826	-0.6132 ppb	0.39826	64.94%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	4.0	0.1084 ug/L		0.19451	0.1084 ppb	0.19451	179.49%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-5.8	-0.0530 ug/L		0.07076	-0.0530 ppb	0.07076	133.58%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-295.2	-0.1197 ug/L		0.02409	-0.1197 ppb	0.02409	20.12%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	8.3	16.852 ug/L		4.2319	16.852 ppb	4.2319	25.11%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	-6.1	-0.0868 ug/L	0.06580	-0.0868 ppb	0.06580	75.83%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	-7.9	-0.2052 ug/L	0.15213	-0.2052 ppb	0.15213	74.15%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	33.5	0.4367 ug/L	0.19831	0.4367 ppb	0.19831	45.42%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	338.5	1.0963 ug/L	0.11694	1.0963 ppb	0.11694	10.67%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	0.9	11.307 ug/L	23.6224	11.307 ppb	23.6224	208.91%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	-403.4	-80.569 ug/L	25.1206	-80.569 ppb	25.1206	31.18%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	1.6	68.311 ug/L	54.6615	68.311 ppb	54.6615	80.02%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	328.6	0.4294 ug/L	0.04519	0.4294 ppb	0.04519	10.52%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	7.9	0.6993 ug/L	0.50358	0.6993 ppb	0.50358	72.01%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	138.5	54.380 ug/L	3.3160	54.380 ppb	3.3160	6.10%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-4.5	-0.1403 ug/L	0.33445	-0.1403 ppb	0.33445	238.44%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	29.0	20.612 ug/L	4.5307	20.612 ppb	4.5307	21.98%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	7.1	1.0747 ug/L	0.19253	1.0747 ppb	0.19253	17.91%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	11.2	19.556 ug/L	5.1676	19.556 ppb	5.1676	26.43%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	8.4	3.5862 ug/L	1.55995	3.5862 ppb	1.55995	43.50%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-3.1	-2.4196 ug/L	3.53437	-2.4196 ppb	3.53437	146.07%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	160.4	5.9634 ug/L	1.31456	5.9634 ppb	1.31456	22.04%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	4.2	0.9377 ug/L	1.65631	0.9377 ppb	1.65631	176.63%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-35.9	-0.3063 ug/L	0.16654	-0.3063 ppb	0.16654	54.38%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	33.0	0.0518 ug/L	0.13005	0.0518 ppb	0.13005	251.12%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	-5.6	-2.1681 ug/L	1.62978	-2.1681 ppb	1.62978	75.17%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	118.5	3.4834 ug/L	1.67751	3.4834 ppb	1.67751	48.16%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	40.2	0.3261 ug/L	0.29800	0.3261 ppb	0.29800	91.38%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	178.9	2.1231 ug/L	0.04055	2.1231 ppb	0.04055	1.91%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	177.1	14.127 ug/L	9.9410	14.127 ppb	9.9410	70.37%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 80

Sample ID: 247907002|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 3/26/2010 01:48:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907002|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4264.2	4264.2	106 %		01:50:01
1	Y RADIAL	5148.2	5148.2	113.9 %		01:50:01
1	Al 396.153Radial†	41327.3	39174.0	41750 ug/L	41750 ppb	01:50:01
1	Ca 317.933Radial†	5700.5	5375.3	10921 ug/L	10921 ppb	01:50:01
1	Fe 238.204 Radial†	6334.0	5982.7	74813 ug/L	74813 ppb	01:50:01
1	K 766.490 Radial†	37663.2	32825.1	6548.2 ug/L	6548.2 ppb	01:50:01
1	Mg 279.077 IEC†	190.6	179.6	7766.0 ug/L	7766.0 ppb	01:50:21
1	Na 589.592 Radial†	1501.2	1881.0	738.70 ug/L	738.70 ppb	01:50:01
1	Sr 421.552†	11986.7	11269.0	95.880 ug/L	95.880 ppb	01:50:01
1	Sc 361.383	873365.4	873365.4	103.99 %		01:51:19
1	Y 371.029	823674.7	823674.7	115.03 %		01:51:19
1	Ag 328.068†	-4409.8	-4494.0	0.7244 ug/L	0.7244 ppb	01:51:24
1	As 188.979†	-45.7	-23.1	26.463 ug/L	26.463 ppb	01:51:44
1	B 249.677†	587.8	815.4	10.190 ug/L	10.190 ppb	01:51:24
1	Ba 233.527†	53138.2	51080.9	481.38 ug/L	481.38 ppb	01:51:24
1	Be 313.107†	25059.8	28361.0	17.109 ug/L	17.109 ppb	01:51:24
1	Cd 226.502†	534.0	680.0	1.9053 ug/L	1.9053 ppb	01:51:44
1	Co 228.616†	1007.2	1007.5	20.180 ug/L	20.180 ppb	01:51:44
1	Cr 267.716†	5559.6	5251.3	76.424 ug/L	76.424 ppb	01:51:44
1	Cu 324.752†	194970.8	181137.3	591.27 ug/L	591.27 ppb	01:51:24
1	Mn 257.610†	1606256.2	1544173.6	2033.1 ug/L	2033.1 ppb	01:51:19
1	Mo 202.031†	24.3	9.2	6.7457 ug/L	6.7457 ppb	01:51:44
1	Ni 231.604†	1680.5	1522.5	47.523 ug/L	47.523 ppb	01:51:44
1	P 214.914†	1166.1	953.2	518.55 ug/L	518.55 ppb	01:51:44
1	Pb 220.353†	1392.8	1398.2	209.21 ug/L	209.21 ppb	01:51:44
1	S 181.975 Axial†	265.3	230.7	396.54 ug/L	396.54 ppb	01:51:44
1	Sb 206.836†	48.0	19.5	-1.5520 ug/L	-1.5520 ppb	01:51:44
1	Se 196.026†	-313.0	-284.0	11.110 ug/L	11.110 ppb	01:51:44
1	Si 251.611†	1104318.3	1061421.4	39520 ug/L	39520 ppb	01:51:19
1	Sn 189.927†	-32.2	-34.0	-9.8883 ug/L	-9.8883 ppb	01:51:44
1	Ti 334.940†	1488312.0	1432290.5	2465.0 ug/L	2465.0 ppb	01:51:19
1	Tl 190.801†	-111.1	-81.7	-1.7884 ug/L	-1.7884 ppb	01:51:44
1	U 409.014†	171.6	2200.2	56.058 ug/L	56.058 ppb	01:51:19
1	V 292.402†	13426.1	14338.5	97.289 ug/L	97.289 ppb	01:51:24
1	Zn 213.857†	29724.0	27977.1	320.07 ug/L	320.07 ppb	01:51:24
1	SiO2†	1098708.6	1055999.0	84369 ug/L	84369 ppb	01:52:53
2	Sc Radial	4123.0	4123.0	102 %		01:50:26
2	Y RADIAL	4960.4	4960.4	109.8 %		01:50:26
2	Al 396.153Radial†	42074.5	41244.1	43956 ug/L	43956 ppb	01:50:26
2	Ca 317.933Radial†	5774.4	5632.3	11443 ug/L	11443 ppb	01:50:26
2	Fe 238.204 Radial†	6446.7	6298.2	78758 ug/L	78758 ppb	01:50:26
2	K 766.490 Radial†	37610.7	33993.9	6781.4 ug/L	6781.4 ppb	01:50:26
2	Mg 279.077 IEC†	183.6	178.9	7733.4 ug/L	7733.4 ppb	01:50:46
2	Na 589.592 Radial†	1542.1	1969.6	773.51 ug/L	773.51 ppb	01:50:26
2	Sr 421.552†	12154.2	11821.3	100.58 ug/L	100.58 ppb	01:50:26
2	Sc 361.383	868976.7	868976.7	103.47 %		01:51:50
2	Y 371.029	821588.6	821588.6	114.74 %		01:51:50
2	Ag 328.068†	-4441.1	-4545.7	1.6795 ug/L	1.6795 ppb	01:51:55
2	As 188.979†	-40.0	-17.8	30.200 ug/L	30.200 ppb	01:52:15
2	B 249.677†	632.1	861.1	10.804 ug/L	10.804 ppb	01:51:55
2	Ba 233.527†	52843.1	51053.7	481.24 ug/L	481.24 ppb	01:51:55
2	Be 313.107†	24847.2	28277.2	17.062 ug/L	17.062 ppb	01:51:55
2	Cd 226.502†	518.5	667.5	1.3223 ug/L	1.3223 ppb	01:52:15
2	Co 228.616†	1005.8	1011.1	20.230 ug/L	20.230 ppb	01:52:15
2	Cr 267.716†	5593.7	5311.2	77.624 ug/L	77.624 ppb	01:52:15
2	Cu 324.752†	195425.1	182523.3	595.97 ug/L	595.97 ppb	01:51:55
2	Mn 257.610†	1593490.8	1539637.0	2027.5 ug/L	2027.5 ppb	01:51:50
2	Mo 202.031†	35.0	19.6	7.9760 ug/L	7.9760 ppb	01:52:15
2	Ni 231.604†	1656.2	1507.1	47.042 ug/L	47.042 ppb	01:52:15

2	P 214.914†	1146.7	940.0	505.56 ug/L	505.56 ppb	01:52:15
2	Pb 220.353†	1416.3	1427.6	213.58 ug/L	213.58 ppb	01:52:15
2	S 181.975 Axial†	271.3	237.8	408.56 ug/L	408.56 ppb	01:52:15
2	Sb 206.836†	65.6	36.8	5.7101 ug/L	5.7101 ppb	01:52:15
2	Se 196.026†	-305.4	-278.2	28.258 ug/L	28.258 ppb	01:52:15
2	Si 251.611†	1095853.9	1058604.0	39415 ug/L	39415 ppb	01:51:50
2	Sn 189.927†	-32.7	-34.7	-10.165 ug/L	-10.165 ppb	01:52:15
2	Ti 334.940†	1477473.9	1429043.9	2459.5 ug/L	2459.5 ppb	01:51:50
2	Tl 190.801†	-116.3	-87.4	-4.0425 ug/L	-4.0425 ppb	01:52:15
2	U 409.014†	174.1	2203.5	55.702 ug/L	55.702 ppb	01:51:50
2	V 292.402†	13442.4	14419.4	97.357 ug/L	97.357 ppb	01:51:55
2	Zn 213.857†	29726.6	28123.9	321.22 ug/L	321.22 ppb	01:51:55
2	SiO2†	1070497.7	1034069.7	82617 ug/L	82617 ppb	01:52:58
3	Sc Radial	3958.8	3958.8	98.1 %		01:50:51
3	Y RADIAL	4823.0	4823.0	106.7 %		01:50:51
3	Al 396.153Radial†	43267.5	44167.0	47071 ug/L	47071 ppb	01:50:51
3	Ca 317.933Radial†	5914.9	6009.8	12210 ug/L	12210 ppb	01:50:51
3	Fe 238.204 Radial†	6576.2	6691.8	83679 ug/L	83679 ppb	01:50:51
3	K 766.490 Radial†	38439.0	36364.1	7254.3 ug/L	7254.3 ppb	01:50:51
3	Mg 279.077 IEC†	184.2	187.0	8081.1 ug/L	8081.1 ppb	01:51:12
3	Na 589.592 Radial†	1553.3	2043.6	802.54 ug/L	802.54 ppb	01:50:51
3	Sr 421.552†	12494.0	12660.7	107.72 ug/L	107.72 ppb	01:50:51
3	Sc 361.383	863147.3	863147.3	102.77 %		01:52:21
3	Y 371.029	815839.2	815839.2	113.93 %		01:52:21
3	Ag 328.068†	-4378.2	-4513.5	3.3535 ug/L	3.3535 ppb	01:52:26
3	As 188.979†	-33.6	-11.9	34.479 ug/L	34.479 ppb	01:52:46
3	B 249.677†	642.1	874.9	10.385 ug/L	10.385 ppb	01:52:26
3	Ba 233.527†	52904.0	51457.8	485.18 ug/L	485.18 ppb	01:52:26
3	Be 313.107†	25018.4	28606.0	17.179 ug/L	17.179 ppb	01:52:26
3	Cd 226.502†	522.9	675.2	0.9229 ug/L	0.9229 ppb	01:52:46
3	Co 228.616†	1010.4	1022.0	20.459 ug/L	20.459 ppb	01:52:46
3	Cr 267.716†	5607.6	5361.4	78.797 ug/L	78.797 ppb	01:52:46
3	Cu 324.752†	194046.3	182457.2	596.02 ug/L	596.02 ppb	01:52:26
3	Mn 257.610†	1579123.9	1536059.0	2023.3 ug/L	2023.3 ppb	01:52:21
3	Mo 202.031†	16.4	1.7	6.7933 ug/L	6.7933 ppb	01:52:46
3	Ni 231.604†	1693.8	1554.5	48.523 ug/L	48.523 ppb	01:52:46
3	P 214.914†	1143.8	944.7	505.80 ug/L	505.80 ppb	01:52:46
3	Pb 220.353†	1406.6	1427.5	213.56 ug/L	213.56 ppb	01:52:46
3	S 181.975 Axial†	275.4	243.6	418.18 ug/L	418.18 ppb	01:52:46
3	Sb 206.836†	65.1	36.7	5.5142 ug/L	5.5142 ppb	01:52:46
3	Se 196.026†	-307.2	-282.0	41.013 ug/L	41.013 ppb	01:52:46
3	Si 251.611†	1085302.9	1055490.7	39299 ug/L	39299 ppb	01:52:21
3	Sn 189.927†	-36.6	-38.7	-11.214 ug/L	-11.214 ppb	01:52:46
3	Ti 334.940†	1463032.3	1424635.9	2452.0 ug/L	2452.0 ppb	01:52:21
3	Tl 190.801†	-119.3	-91.0	-5.5469 ug/L	-5.5469 ppb	01:52:46
3	U 409.014†	279.3	2306.9	58.184 ug/L	58.184 ppb	01:52:21
3	V 292.402†	13442.8	14507.6	97.318 ug/L	97.318 ppb	01:52:26
3	Zn 213.857†	29645.3	28238.9	321.84 ug/L	321.84 ppb	01:52:26
3	SiO2†	1093486.2	1063425.3	84962 ug/L	84962 ppb	01:53:04

Mean Data: 247907002|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	868496.5	103.41 %	0.610			0.59%
Sc Radial	4115.4	102 %	3.8			3.71%
Y 371.029	820367.5	114.56 %	0.567			0.49%
Y RADIAL	4977.2	110.2 %	3.61			3.28%
Ag 328.068†	-4517.7	1.9192 ug/L	1.33081	1.9192 ppb	1.33081	69.34%
Al 396.153Radial†	41528.4	44259 ug/L	2673.6	44259 ppb	2673.6	6.04%
As 188.979†	-17.6	30.381 ug/L	4.0111	30.381 ppb	4.0111	13.20%
B 249.677†	850.5	10.459 ug/L	0.3137	10.459 ppb	0.3137	3.00%
Ba 233.527†	51197.5	482.60 ug/L	2.237	482.60 ppb	2.237	0.46%
Be 313.107†	28414.7	17.117 ug/L	0.0585	17.117 ppb	0.0585	0.34%
Ca 317.933Radial†	5672.5	11525 ug/L	648.5	11525 ppb	648.5	5.63%
Cd 226.502†	674.2	1.3835 ug/L	0.49402	1.3835 ppb	0.49402	35.71%
Co 228.616†	1013.5	20.290 ug/L	0.1486	20.290 ppb	0.1486	0.73%
Cr 267.716†	5308.0	77.615 ug/L	1.1866	77.615 ppb	1.1866	1.53%
Cu 324.752†	182039.3	594.42 ug/L	2.728	594.42 ppb	2.728	0.46%
Fe 238.204 Radial†	6324.2	79083 ug/L	4442.0	79083 ppb	4442.0	5.62%
K 766.490 Radial†	34394.4	6861.3 ug/L	359.75	6861.3 ppb	359.75	5.24%

Mg 279.077 IEC†	181.8	7860.2 ug/L	192.01	7860.2 ppb	192.01	2.44%
Mn 257.610†	1539956.5	2028.0 ug/L	4.91	2028.0 ppb	4.91	0.24%
Mo 202.031†	10.2	7.1717 ug/L	0.69698	7.1717 ppb	0.69698	9.72%
Na 589.592 Radial†	1964.7	771.58 ug/L	31.965	771.58 ppb	31.965	4.14%
Ni 231.604†	1528.0	47.696 ug/L	0.7557	47.696 ppb	0.7557	1.58%
P 214.914†	946.0	509.97 ug/L	7.433	509.97 ppb	7.433	1.46%
Pb 220.353†	1417.8	212.12 ug/L	2.516	212.12 ppb	2.516	1.19%
S 181.975 Axial†	237.4	407.76 ug/L	10.841	407.76 ppb	10.841	2.66%
Sb 206.836†	31.0	3.2241 ug/L	4.13738	3.2241 ppb	4.13738	128.33%
Se 196.026†	-281.4	26.793 ug/L	15.0052	26.793 ppb	15.0052	56.00%
Si 251.611†	1058505.4	39411 ug/L	110.5	39411 ppb	110.5	0.28%
Sn 189.927†	-35.8	-10.423 ug/L	0.6992	-10.423 ppb	0.6992	6.71%
Sr 421.552†	11917.0	101.39 ug/L	5.962	101.39 ppb	5.962	5.88%
Ti 334.940†	1428656.7	2458.9 ug/L	6.54	2458.9 ppb	6.54	0.27%
Tl 190.801†	-86.7	-3.7926 ug/L	1.89170	-3.7926 ppb	1.89170	49.88%
U 409.014†	2236.9	56.648 ug/L	1.3418	56.648 ppb	1.3418	2.37%
V 292.402†	14421.8	97.321 ug/L	0.0338	97.321 ppb	0.0338	0.03%
Zn 213.857†	28113.3	321.04 ug/L	0.899	321.04 ppb	0.899	0.28%
SiO2†	1051164.7	83983 ug/L	1219.5	83983 ppb	1219.5	1.45%

Sequence No.: 81

Sample ID: 247907003|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 100

Date Collected: 3/26/2010 01:55:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907003|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4216.9	4216.9	105 %		01:57:29
1	Y RADIAL	5260.9	5260.9	116.4 %		01:57:29
1	Al 396.153Radial†	106113.6	101587.3	108270 ug/L	108270 ppb	01:57:09
1	Ca 317.933Radial†	12283.4	11733.1	23839 ug/L	23839 ppb	01:57:09
1	Fe 238.204 Radial†	11836.8	11314.0	141480 ug/L	141480 ppb	01:57:09
1	K 766.490 Radial†	100244.5	93090.1	18573 ug/L	18573 ppb	01:57:09
1	Mg 279.077 IEC†	531.3	507.5	22024 ug/L	22024 ppb	01:57:29
1	Na 589.592 Radial†	9314.1	9370.7	3680.0 ug/L	3680.0 ppb	01:57:09
1	Sr 421.552†	27518.5	26254.0	223.39 ug/L	223.39 ppb	01:57:09
1	Sc 361.383	874412.9	874412.9	104.11 %		01:58:27
1	Y 371.029	855965.7	855965.7	119.54 %		01:58:27
1	Ag 328.068†	-8905.1	-8806.5	0.2199 ug/L	0.2199 ppb	01:58:32
1	As 188.979†	-22.1	-0.4	53.979 ug/L	53.979 ppb	01:58:52
1	B 249.677†	1298.5	1497.3	18.039 ug/L	18.039 ppb	01:58:32
1	Ba 233.527†	147475.8	141628.9	1332.5 ug/L	1332.5 ppb	01:58:32
1	Be 313.107†	10957.6	14787.2	11.517 ug/L	11.517 ppb	01:58:32
1	Cd 226.502†	961.9	1090.3	0.7871 ug/L	0.7871 ppb	01:58:52
1	Co 228.616†	1975.4	1936.3	43.825 ug/L	43.825 ppb	01:58:52
1	Cr 267.716†	11489.0	10940.0	157.87 ug/L	157.87 ppb	01:58:32
1	Cu 324.752†	34288.9	26581.0	93.829 ug/L	93.829 ppb	01:58:32
1	Mn 257.610†	2636518.9	2531869.1	3335.0 ug/L	3335.0 ppb	01:58:27
1	Mo 202.031†	-58.8	-70.7	5.0506 ug/L	5.0506 ppb	01:58:52
1	Ni 231.604†	4085.2	3830.1	119.57 ug/L	119.57 ppb	01:58:52
1	P 214.914†	1456.8	1231.1	780.56 ug/L	780.56 ppb	01:58:52
1	Pb 220.353†	602.5	637.5	100.21 ug/L	100.21 ppb	01:58:52
1	S 181.975 Axial†	606.8	558.4	958.50 ug/L	958.50 ppb	01:58:52
1	Sb 206.836†	56.3	27.5	-0.5565 ug/L	-0.5565 ppb	01:58:52
1	Se 196.026†	-564.4	-525.1	41.812 ug/L	41.812 ppb	01:58:52
1	Si 251.611†	1342378.4	1288801.0	47986 ug/L	47986 ppb	01:58:27
1	Sn 189.927†	-105.7	-104.6	-27.046 ug/L	-27.046 ppb	01:58:52
1	Ti 334.940†	1468556.1	1411600.9	2430.1 ug/L	2430.1 ppb	01:58:27
1	Tl 190.801†	-140.7	-110.1	-7.1948 ug/L	-7.1948 ppb	01:58:52
1	U 409.014†	-11742.5	-9243.3	-288.43 ug/L	-288.43 ppb	01:58:27
1	V 292.402†	30858.5	31066.5	216.08 ug/L	216.08 ppb	01:58:32
1	Zn 213.857†	38876.2	36733.4	414.34 ug/L	414.34 ppb	01:58:32
1	SiO2†	1338540.9	1285087.3	102670 ug/L	102670 ppb	02:00:01
2	Sc Radial	4386.9	4386.9	109 %		01:57:54
2	Y RADIAL	5444.6	5444.6	120.5 %		01:57:54
2	Al 396.153Radial†	103833.4	95556.9	101840 ug/L	101840 ppb	01:57:34
2	Ca 317.933Radial†	12049.5	11062.6	22476 ug/L	22476 ppb	01:57:34
2	Fe 238.204 Radial†	11602.9	10660.2	133300 ug/L	133300 ppb	01:57:34
2	K 766.490 Radial†	98826.7	88070.2	17571 ug/L	17571 ppb	01:57:34
2	Mg 279.077 IEC†	526.7	483.6	20985 ug/L	20985 ppb	01:57:54
2	Na 589.592 Radial†	9096.4	8825.2	3465.8 ug/L	3465.8 ppb	01:57:34
2	Sr 421.552†	26881.2	24647.9	209.72 ug/L	209.72 ppb	01:57:34
2	Sc 361.383	856943.5	856943.5	102.03 %		01:58:58
2	Y 371.029	840310.9	840310.9	117.35 %		01:58:58
2	Ag 328.068†	-8685.2	-8765.4	-2.0849 ug/L	-2.0849 ppb	01:59:03
2	As 188.979†	-12.7	8.4	56.745 ug/L	56.745 ppb	01:59:23
2	B 249.677†	1307.8	1531.9	20.314 ug/L	20.314 ppb	01:59:03
2	Ba 233.527†	145233.9	142319.3	1338.8 ug/L	1338.8 ppb	01:59:03
2	Be 313.107†	10689.4	14739.0	11.494 ug/L	11.494 ppb	01:59:03
2	Cd 226.502†	957.4	1104.8	1.8374 ug/L	1.8374 ppb	01:59:23
2	Co 228.616†	1965.4	1965.1	44.698 ug/L	44.698 ppb	01:59:23
2	Cr 267.716†	11347.9	11026.6	158.13 ug/L	158.13 ppb	01:59:03
2	Cu 324.752†	33663.5	26639.5	93.585 ug/L	93.585 ppb	01:59:03
2	Mn 257.610†	2585573.4	2533562.7	3336.5 ug/L	3336.5 ppb	01:58:58
2	Mo 202.031†	-67.4	-80.3	3.5576 ug/L	3.5576 ppb	01:59:23
2	Ni 231.604†	4100.7	3925.3	122.54 ug/L	122.54 ppb	01:59:23

2	P 214.914†	1462.9	1265.5	810.28 ug/L	810.28 ppb	01:59:23
2	Pb 220.353†	592.4	639.4	100.21 ug/L	100.21 ppb	01:59:23
2	S 181.975 Axial†	603.9	567.5	975.64 ug/L	975.64 ppb	01:59:23
2	Sb 206.836†	53.1	25.4	-1.1751 ug/L	-1.1751 ppb	01:59:23
2	Se 196.026†	-567.2	-538.9	4.1420 ug/L	4.1420 ppb	01:59:23
2	Si 251.611†	1312851.3	1286146.6	47887 ug/L	47887 ppb	01:58:58
2	Sn 189.927†	-104.3	-105.4	-26.992 ug/L	-26.992 ppb	01:59:23
2	Ti 334.940†	1438272.2	1410675.3	2428.4 ug/L	2428.4 ppb	01:58:58
2	Tl 190.801†	-138.7	-110.9	-7.5101 ug/L	-7.5101 ppb	01:59:23
2	U 409.014†	-11435.0	-9171.8	-285.39 ug/L	-285.39 ppb	01:58:58
2	V 292.402†	30224.5	31049.4	217.11 ug/L	217.11 ppb	01:59:03
2	Zn 213.857†	38229.8	36861.1	417.06 ug/L	417.06 ppb	01:59:03
2	SiO2†	1331228.5	1304129.4	104190 ug/L	104190 ppb	02:00:07
3	Sc Radial	4206.2	4206.2	104 %		01:58:20
3	Y RADIAL	5230.4	5230.4	115.8 %		01:58:20
3	Al 396.153Radial†	104912.5	100693.3	107320 ug/L	107320 ppb	01:58:00
3	Ca 317.933Radial†	12131.7	11617.4	23604 ug/L	23604 ppb	01:58:00
3	Fe 238.204 Radial†	11726.2	11236.8	140510 ug/L	140510 ppb	01:58:00
3	K 766.490 Radial†	99594.8	92710.6	18497 ug/L	18497 ppb	01:58:00
3	Mg 279.077 IEC†	526.9	504.6	21898 ug/L	21898 ppb	01:58:20
3	Na 589.592 Radial†	9213.9	9297.2	3651.2 ug/L	3651.2 ppb	01:58:00
3	Sr 421.552†	27251.4	26064.7	221.78 ug/L	221.78 ppb	01:58:00
3	Sc 361.383	865819.4	865819.4	103.09 %		01:59:29
3	Y 371.029	847117.1	847117.1	118.30 %		01:59:29
3	Ag 328.068†	-8810.1	-8799.3	-0.0422 ug/L	-0.0422 ppb	01:59:34
3	As 188.979†	-19.0	2.4	55.228 ug/L	55.228 ppb	01:59:54
3	B 249.677†	1323.8	1534.3	19.210 ug/L	19.210 ppb	01:59:34
3	Ba 233.527†	145998.9	141602.2	1332.2 ug/L	1332.2 ppb	01:59:34
3	Be 313.107†	10865.5	14802.4	11.520 ug/L	11.520 ppb	01:59:34
3	Cd 226.502†	926.5	1065.1	0.5323 ug/L	0.5323 ppb	01:59:54
3	Co 228.616†	1967.1	1947.0	44.120 ug/L	44.120 ppb	01:59:54
3	Cr 267.716†	11415.7	10978.4	158.26 ug/L	158.26 ppb	01:59:34
3	Cu 324.752†	33975.5	26603.9	93.853 ug/L	93.853 ppb	01:59:34
3	Mn 257.610†	2613651.6	2534821.5	3338.8 ug/L	3338.8 ppb	01:59:29
3	Mo 202.031†	-71.4	-83.4	3.8523 ug/L	3.8523 ppb	01:59:54
3	Ni 231.604†	4103.5	3886.8	121.34 ug/L	121.34 ppb	01:59:54
3	P 214.914†	1469.8	1257.5	800.10 ug/L	800.10 ppb	01:59:54
3	Pb 220.353†	635.7	675.5	105.86 ug/L	105.86 ppb	01:59:54
3	S 181.975 Axial†	603.8	561.3	963.72 ug/L	963.72 ppb	01:59:54
3	Sb 206.836†	57.0	28.7	-0.0379 ug/L	-0.0379 ppb	01:59:54
3	Se 196.026†	-555.6	-522.0	41.032 ug/L	41.032 ppb	01:59:54
3	Si 251.611†	1328429.0	1288066.9	47959 ug/L	47959 ppb	01:59:29
3	Sn 189.927†	-106.9	-106.8	-27.525 ug/L	-27.525 ppb	01:59:54
3	Ti 334.940†	1453124.3	1410631.7	2428.4 ug/L	2428.4 ppb	01:59:29
3	Tl 190.801†	-150.7	-121.1	-11.461 ug/L	-11.461 ppb	01:59:54
3	U 409.014†	-11664.2	-9279.3	-289.38 ug/L	-289.38 ppb	01:59:29
3	V 292.402†	30422.3	30937.5	215.21 ug/L	215.21 ppb	01:59:34
3	Zn 213.857†	38418.0	36659.5	413.59 ug/L	413.59 ppb	01:59:34
3	SiO2†	1322661.4	1282444.3	102460 ug/L	102460 ppb	02:00:13

Mean Data: 247907003|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	865725.3	103.08 %	1.040			1.01%
Sc Radial	4270.0	106 %	2.5			2.37%
Y 371.029	847797.9	118.40 %	1.096			0.93%
Y RADIAL	5312.0	117.6 %	2.56			2.18%
Ag 328.068†	-8790.4	-0.6357 ug/L	1.26188	-0.6357 ppb	1.26188	198.50%
Al 396.153Radial†	99279.2	105810 ug/L	3468.4	105810 ppb	3468.4	3.28%
As 188.979†	3.4	55.317 ug/L	1.3856	55.317 ppb	1.3856	2.50%
B 249.677†	1521.2	19.188 ug/L	1.1374	19.188 ppb	1.1374	5.93%
Ba 233.527†	141850.1	1334.5 ug/L	3.68	1334.5 ppb	3.68	0.28%
Be 313.107†	14776.2	11.510 ug/L	0.0141	11.510 ppb	0.0141	0.12%
Ca 317.933Radial†	11471.0	23306 ug/L	728.2	23306 ppb	728.2	3.12%
Cd 226.502†	1086.7	1.0523 ug/L	0.69180	1.0523 ppb	0.69180	65.74%
Co 228.616†	1949.4	44.214 ug/L	0.4438	44.214 ppb	0.4438	1.00%
Cr 267.716†	10981.7	158.08 ug/L	0.202	158.08 ppb	0.202	0.13%
Cu 324.752†	26608.1	93.756 ug/L	0.1483	93.756 ppb	0.1483	0.16%
Fe 238.204 Radial†	11070.3	138430 ug/L	4467.7	138430 ppb	4467.7	3.23%
K 766.490 Radial†	91290.3	18214 ug/L	557.7	18214 ppb	557.7	3.06%

Mg 279.077 IEC†	498.6	21636 ug/L	566.6	21636 ppb	566.6	2.62%
Mn 257.610†	2533417.8	3336.8 ug/L	1.91	3336.8 ppb	1.91	0.06%
Mo 202.031†	-78.1	4.1535 ug/L	0.79076	4.1535 ppb	0.79076	19.04%
Na 589.592 Radial†	9164.4	3599.0 ug/L	116.26	3599.0 ppb	116.26	3.23%
Ni 231.604†	3880.8	121.15 ug/L	1.494	121.15 ppb	1.494	1.23%
P 214.914†	1251.4	796.98 ug/L	15.104	796.98 ppb	15.104	1.90%
Pb 220.353†	650.8	102.09 ug/L	3.258	102.09 ppb	3.258	3.19%
S 181.975 Axial†	562.4	965.95 ug/L	8.786	965.95 ppb	8.786	0.91%
Sb 206.836†	27.2	-0.5898 ug/L	0.56936	-0.5898 ppb	0.56936	96.53%
Se 196.026†	-528.7	28.995 ug/L	21.5270	28.995 ppb	21.5270	74.24%
Si 251.611†	1287671.5	47944 ug/L	51.0	47944 ppb	51.0	0.11%
Sn 189.927†	-105.6	-27.188 ug/L	0.2932	-27.188 ppb	0.2932	1.08%
Sr 421.552†	25655.5	218.30 ug/L	7.469	218.30 ppb	7.469	3.42%
Ti 334.940†	1410969.3	2429.0 ug/L	0.98	2429.0 ppb	0.98	0.04%
Tl 190.801†	-114.0	-8.7220 ug/L	2.37737	-8.7220 ppb	2.37737	27.26%
U 409.014†	-9231.5	-287.73 ug/L	2.079	-287.73 ppb	2.079	0.72%
V 292.402†	31017.8	216.13 ug/L	0.953	216.13 ppb	0.953	0.44%
Zn 213.857†	36751.3	414.99 ug/L	1.825	414.99 ppb	1.825	0.44%
SiO2†	1290553.7	103110 ug/L	945.2	103110 ppb	945.2	0.92%

Sequence No.: 82

Sample ID: 247907004|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/26/2010 02:02:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907004|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4314.3	4314.3	107 %		02:04:17
1	Y RADIAL	5132.7	5132.7	113.6 %		02:04:17
1	Al 396.153Radial†	35341.7	33123.6	35302 ug/L	35302 ppb	02:04:17
1	Ca 317.933Radial†	7622.8	7110.0	14446 ug/L	14446 ppb	02:04:17
1	Fe 238.204 Radial†	5974.9	5577.4	69744 ug/L	69744 ppb	02:04:17
1	K 766.490 Radial†	34569.8	29519.0	5887.1 ug/L	5887.1 ppb	02:04:17
1	Mg 279.077 IEC†	179.7	167.3	7234.1 ug/L	7234.1 ppb	02:04:37
1	Na 589.592 Radial†	1200.7	1583.5	621.87 ug/L	621.87 ppb	02:04:17
1	Sr 421.552†	10813.7	10040.6	85.393 ug/L	85.393 ppb	02:04:17
1	Sc 361.383	854658.1	854658.1	101.76 %		02:05:35
1	Y 371.029	795472.2	795472.2	111.09 %		02:05:35
1	Ag 328.068†	-3420.8	-3615.0	2.2987 ug/L	2.2987 ppb	02:05:40
1	As 188.979†	-35.2	-13.8	28.096 ug/L	28.096 ppb	02:06:00
1	B 249.677†	508.9	750.2	9.2226 ug/L	9.2226 ppb	02:05:40
1	Ba 233.527†	47871.0	47023.4	443.17 ug/L	443.17 ppb	02:05:40
1	Be 313.107†	23616.2	27469.8	16.167 ug/L	16.167 ppb	02:05:40
1	Cd 226.502†	450.4	609.0	1.7116 ug/L	1.7116 ppb	02:06:00
1	Co 228.616†	954.9	977.2	19.990 ug/L	19.990 ppb	02:06:00
1	Cr 267.716†	3583.8	3426.8	51.535 ug/L	51.535 ppb	02:06:00
1	Cu 324.752†	133832.6	125161.9	408.68 ug/L	408.68 ppb	02:05:40
1	Mn 257.610†	1596888.9	1568778.3	2064.9 ug/L	2064.9 ppb	02:05:35
1	Mo 202.031†	1.0	-13.2	4.4248 ug/L	4.4248 ppb	02:06:00
1	Ni 231.604†	1371.5	1254.1	39.145 ug/L	39.145 ppb	02:06:00
1	P 214.914†	1219.1	1029.8	612.09 ug/L	612.09 ppb	02:06:00
1	Pb 220.353†	1882.0	1908.2	285.54 ug/L	285.54 ppb	02:06:00
1	S 181.975 Axial†	251.2	222.5	383.32 ug/L	383.32 ppb	02:06:00
1	Sb 206.836†	57.7	30.1	3.8260 ug/L	3.8260 ppb	02:06:00
1	Se 196.026†	-285.5	-263.7	9.8663 ug/L	9.8663 ppb	02:06:00
1	Si 251.611†	1012273.8	994215.8	37018 ug/L	37018 ppb	02:05:35
1	Sn 189.927†	-61.9	-63.9	-15.584 ug/L	-15.584 ppb	02:06:00
1	Ti 334.940†	1305326.9	1283801.9	2209.4 ug/L	2209.4 ppb	02:05:35
1	Tl 190.801†	-113.1	-86.1	-5.4212 ug/L	-5.4212 ppb	02:06:00
1	U 409.014†	51540.7	52683.2	1542.1 ug/L	1542.1 ppb	02:05:40
1	V 292.402†	12175.6	13392.2	93.817 ug/L	93.817 ppb	02:05:40
1	Zn 213.857†	25694.9	24643.5	281.52 ug/L	281.52 ppb	02:05:40
1	SiO2†	1012210.3	994125.4	79426 ug/L	79426 ppb	02:07:09
2	Sc Radial	4171.4	4171.4	103 %		02:04:43
2	Y RADIAL	4960.6	4960.6	109.8 %		02:04:43
2	Al 396.153Radial†	34412.0	33356.5	35550 ug/L	35550 ppb	02:04:43
2	Ca 317.933Radial†	7420.1	7158.1	14544 ug/L	14544 ppb	02:04:43
2	Fe 238.204 Radial†	5811.1	5610.4	70157 ug/L	70157 ppb	02:04:43
2	K 766.490 Radial†	33766.8	29849.7	5953.0 ug/L	5953.0 ppb	02:04:43
2	Mg 279.077 IEC†	179.1	172.5	7463.1 ug/L	7463.1 ppb	02:05:03
2	Na 589.592 Radial†	1174.3	1596.4	626.95 ug/L	626.95 ppb	02:04:43
2	Sr 421.552†	10437.7	10023.4	85.246 ug/L	85.246 ppb	02:04:43
2	Sc 361.383	854241.1	854241.1	101.71 %		02:06:06
2	Y 371.029	795199.6	795199.6	111.05 %		02:06:06
2	Ag 328.068†	-3452.8	-3648.1	2.2544 ug/L	2.2544 ppb	02:06:11
2	As 188.979†	-39.0	-17.5	26.182 ug/L	26.182 ppb	02:06:31
2	B 249.677†	549.2	790.1	10.252 ug/L	10.252 ppb	02:06:11
2	Ba 233.527†	47627.3	46806.7	441.15 ug/L	441.15 ppb	02:06:11
2	Be 313.107†	23575.4	27441.1	16.155 ug/L	16.155 ppb	02:06:11
2	Cd 226.502†	446.6	605.5	1.6215 ug/L	1.6215 ppb	02:06:31
2	Co 228.616†	951.7	974.6	19.914 ug/L	19.914 ppb	02:06:31
2	Cr 267.716†	3581.8	3426.5	51.572 ug/L	51.572 ppb	02:06:31
2	Cu 324.752†	133991.3	125382.1	409.41 ug/L	409.41 ppb	02:06:11
2	Mn 257.610†	1596430.2	1569093.3	2065.4 ug/L	2065.4 ppb	02:06:06
2	Mo 202.031†	4.5	-9.7	4.7634 ug/L	4.7634 ppb	02:06:31
2	Ni 231.604†	1375.8	1259.0	39.298 ug/L	39.298 ppb	02:06:31

2	P 214.914†	1220.1	1031.3	612.74 ug/L	612.74 ppb	02:06:31
2	Pb 220.353†	1876.1	1903.4	284.81 ug/L	284.81 ppb	02:06:31
2	S 181.975 Axial†	273.0	244.0	421.06 ug/L	421.06 ppb	02:06:31
2	Sb 206.836†	60.5	32.8	4.9982 ug/L	4.9982 ppb	02:06:31
2	Se 196.026†	-272.3	-250.8	21.441 ug/L	21.441 ppb	02:06:31
2	Si 251.611†	1011655.5	994093.3	37013 ug/L	37013 ppb	02:06:06
2	Sn 189.927†	-63.6	-65.6	-15.980 ug/L	-15.980 ppb	02:06:31
2	Ti 334.940†	1304537.3	1283651.7	2209.2 ug/L	2209.2 ppb	02:06:06
2	Tl 190.801†	-109.7	-82.8	-4.1389 ug/L	-4.1389 ppb	02:06:31
2	U 409.014†	51753.8	52917.4	1549.0 ug/L	1549.0 ppb	02:06:11
2	V 292.402†	12231.1	13452.7	94.245 ug/L	94.245 ppb	02:06:11
2	Zn 213.857†	25691.4	24652.3	281.57 ug/L	281.57 ppb	02:06:11
2	SiO2†	1019529.3	1001806.7	80039 ug/L	80039 ppb	02:07:15
3	Sc Radial	4198.6	4198.6	104 %		02:05:08
3	Y RADIAL	4994.1	4994.1	110.5 %		02:05:08
3	Al 396.153Radial†	34667.2	33386.7	35582 ug/L	35582 ppb	02:05:08
3	Ca 317.933Radial†	7467.7	7157.6	14542 ug/L	14542 ppb	02:05:08
3	Fe 238.204 Radial†	5886.0	5646.1	70603 ug/L	70603 ppb	02:05:08
3	K 766.490 Radial†	34142.7	30000.0	5983.0 ug/L	5983.0 ppb	02:05:08
3	Mg 279.077 IEC†	174.7	167.2	7228.9 ug/L	7228.9 ppb	02:05:28
3	Na 589.592 Radial†	1177.3	1592.0	625.21 ug/L	625.21 ppb	02:05:08
3	Sr 421.552†	10581.3	10096.1	85.866 ug/L	85.866 ppb	02:05:08
3	Sc 361.383	858056.5	858056.5	102.17 %		02:06:37
3	Y 371.029	799449.5	799449.5	111.64 %		02:06:37
3	Ag 328.068†	-3431.7	-3612.3	2.5646 ug/L	2.5646 ppb	02:06:42
3	As 188.979†	-34.9	-13.3	28.509 ug/L	28.509 ppb	02:07:02
3	B 249.677†	485.0	724.9	8.3873 ug/L	8.3873 ppb	02:06:42
3	Ba 233.527†	48465.4	47418.8	446.90 ug/L	446.90 ppb	02:06:42
3	Be 313.107†	23870.4	27626.8	16.227 ug/L	16.227 ppb	02:06:42
3	Cd 226.502†	436.2	593.4	1.4071 ug/L	1.4071 ppb	02:07:02
3	Co 228.616†	952.0	970.7	19.813 ug/L	19.813 ppb	02:07:02
3	Cr 267.716†	3605.8	3434.3	51.717 ug/L	51.717 ppb	02:07:02
3	Cu 324.752†	136189.2	126947.6	414.50 ug/L	414.50 ppb	02:06:42
3	Mn 257.610†	1602849.0	1568397.0	2064.5 ug/L	2064.5 ppb	02:06:37
3	Mo 202.031†	2.4	-11.9	4.6106 ug/L	4.6106 ppb	02:07:02
3	Ni 231.604†	1379.6	1256.8	39.227 ug/L	39.227 ppb	02:07:02
3	P 214.914†	1228.0	1033.7	613.10 ug/L	613.10 ppb	02:07:02
3	Pb 220.353†	1883.6	1902.4	284.61 ug/L	284.61 ppb	02:07:02
3	S 181.975 Axial†	264.9	234.9	405.15 ug/L	405.15 ppb	02:07:02
3	Sb 206.836†	60.6	32.7	4.9189 ug/L	4.9189 ppb	02:07:02
3	Se 196.026†	-281.4	-258.4	16.669 ug/L	16.669 ppb	02:07:02
3	Si 251.611†	1016419.1	994333.4	37022 ug/L	37022 ppb	02:06:37
3	Sn 189.927†	-68.3	-70.0	-16.969 ug/L	-16.969 ppb	02:07:02
3	Ti 334.940†	1309518.0	1282823.9	2207.8 ug/L	2207.8 ppb	02:06:37
3	Tl 190.801†	-113.0	-85.5	-5.2333 ug/L	-5.2333 ppb	02:07:02
3	U 409.014†	52481.4	53403.4	1563.2 ug/L	1563.2 ppb	02:06:42
3	V 292.402†	12395.7	13560.3	95.031 ug/L	95.031 ppb	02:06:42
3	Zn 213.857†	26043.3	24884.5	284.25 ug/L	284.25 ppb	02:06:42
3	SiO2†	1014609.4	992534.2	79299 ug/L	79299 ppb	02:07:20

Mean Data: 247907004|958057|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	855651.9	101.88 %	0.249			0.24%
Sc Radial	4228.1	105 %	1.9			1.80%
Y 371.029	796707.1	111.26 %	0.332			0.30%
Y RADIAL	5029.1	111.3 %	2.02			1.81%
Ag 328.068†	-3625.1	2.3726 ug/L	0.16778	2.3726 ppb	0.16778	7.07%
Al 396.153Radial†	33288.9	35478 ug/L	153.4	35478 ppb	153.4	0.43%
As 188.979†	-14.9	27.596 ug/L	1.2419	27.596 ppb	1.2419	4.50%
B 249.677†	755.0	9.2872 ug/L	0.93389	9.2872 ppb	0.93389	10.06%
Ba 233.527†	47083.0	443.74 ug/L	2.919	443.74 ppb	2.919	0.66%
Be 313.107†	27512.6	16.183 ug/L	0.0386	16.183 ppb	0.0386	0.24%
Ca 317.933Radial†	7141.9	14511 ug/L	56.1	14511 ppb	56.1	0.39%
Cd 226.502†	602.6	1.5801 ug/L	0.15642	1.5801 ppb	0.15642	9.90%
Co 228.616†	974.2	19.906 ug/L	0.0886	19.906 ppb	0.0886	0.45%
Cr 267.716†	3429.2	51.608 ug/L	0.0963	51.608 ppb	0.0963	0.19%
Cu 324.752†	125830.5	410.86 ug/L	3.172	410.86 ppb	3.172	0.77%
Fe 238.204 Radial†	5611.3	70168 ug/L	429.5	70168 ppb	429.5	0.61%
K 766.490 Radial†	29789.5	5941.0 ug/L	49.10	5941.0 ppb	49.10	0.83%

Mg 279.077 IEC†	169.0	7308.7 ug/L	133.77	7308.7 ppb	133.77	1.83%
Mn 257.610†	1568756.2	2064.9 ug/L	0.43	2064.9 ppb	0.43	0.02%
Mo 202.031†	-11.6	4.5996 ug/L	0.16959	4.5996 ppb	0.16959	3.69%
Na 589.592 Radial†	1590.7	624.68 ug/L	2.580	624.68 ppb	2.580	0.41%
Ni 231.604†	1256.6	39.223 ug/L	0.0767	39.223 ppb	0.0767	0.20%
P 214.914†	1031.6	612.64 ug/L	0.515	612.64 ppb	0.515	0.08%
Pb 220.353†	1904.7	284.99 ug/L	0.493	284.99 ppb	0.493	0.17%
S 181.975 Axial†	233.8	403.17 ug/L	18.950	403.17 ppb	18.950	4.70%
Sb 206.836†	31.9	4.5811 ug/L	0.65508	4.5811 ppb	0.65508	14.30%
Se 196.026†	-257.6	15.992 ug/L	5.8168	15.992 ppb	5.8168	36.37%
Si 251.611†	994214.2	37018 ug/L	4.5	37018 ppb	4.5	0.01%
Sn 189.927†	-66.5	-16.178 ug/L	0.7134	-16.178 ppb	0.7134	4.41%
Sr 421.552†	10053.4	85.502 ug/L	0.3237	85.502 ppb	0.3237	0.38%
Ti 334.940†	1283425.8	2208.8 ug/L	0.90	2208.8 ppb	0.90	0.04%
Tl 190.801†	-84.8	-4.9311 ug/L	0.69253	-4.9311 ppb	0.69253	14.04%
U 409.014†	53001.3	1551.4 ug/L	10.76	1551.4 ppb	10.76	0.69%
V 292.402†	13468.4	94.364 ug/L	0.6160	94.364 ppb	0.6160	0.65%
Zn 213.857†	24726.8	282.45 ug/L	1.562	282.45 ppb	1.562	0.55%
SiO2†	996155.4	79588 ug/L	396.1	79588 ppb	396.1	0.50%

Sequence No.: 83

Sample ID: 247907005|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 102

Date Collected: 3/26/2010 02:09:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907005|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4237.7	4237.7	105 %		02:11:45
1	Y RADIAL	5106.0	5106.0	113.0 %		02:11:45
1	Al 396.153Radial†	92858.2	88470.8	94289 ug/L	94289 ppb	02:11:25
1	Ca 317.933Radial†	9272.7	8809.5	17899 ug/L	17899 ppb	02:11:25
1	Fe 238.204 Radial†	12613.1	11997.3	150020 ug/L	150020 ppb	02:11:25
1	K 766.490 Radial†	103139.6	95374.7	19032 ug/L	19032 ppb	02:11:25
1	Mg 279.077 IEC†	529.1	503.0	21814 ug/L	21814 ppb	02:11:45
1	Na 589.592 Radial†	3393.2	3690.8	1449.4 ug/L	1449.4 ppb	02:11:25
1	Sr 421.552†	20562.7	19503.5	165.95 ug/L	165.95 ppb	02:11:25
1	Sc 361.383	857952.8	857952.8	102.15 %		02:12:43
1	Y 371.029	812826.8	812826.8	113.51 %		02:12:43
1	Ag 328.068†	-9331.1	-9387.6	0.1888 ug/L	0.1888 ppb	02:12:48
1	As 188.979†	-50.8	-28.9	54.236 ug/L	54.236 ppb	02:13:08
1	B 249.677†	1422.9	1643.0	20.616 ug/L	20.616 ppb	02:12:48
1	Ba 233.527†	88012.7	86137.6	812.71 ug/L	812.71 ppb	02:12:48
1	Be 313.107†	-2689.0	1630.5	9.7234 ug/L	9.7234 ppb	02:12:48
1	Cd 226.502†	1105.5	1248.6	2.1461 ug/L	2.1461 ppb	02:13:08
1	Co 228.616†	2499.2	2485.4	54.456 ug/L	54.456 ppb	02:13:08
1	Cr 267.716†	13445.8	13067.2	186.52 ug/L	186.52 ppb	02:12:48
1	Cu 324.752†	39126.4	31948.3	111.66 ug/L	111.66 ppb	02:12:48
1	Mn 257.610†	2984417.7	2921012.7	3846.4 ug/L	3846.4 ppb	02:12:43
1	Mo 202.031†	-65.1	-77.9	5.0114 ug/L	5.0114 ppb	02:13:08
1	Ni 231.604†	3951.7	3774.7	117.83 ug/L	117.83 ppb	02:13:08
1	P 214.914†	1505.0	1305.0	819.98 ug/L	819.98 ppb	02:13:08
1	Pb 220.353†	977.6	1015.8	152.84 ug/L	152.84 ppb	02:13:08
1	S 181.975 Axial†	383.1	350.7	596.97 ug/L	596.97 ppb	02:13:08
1	Sb 206.836†	68.5	40.4	0.3090 ug/L	0.3090 ppb	02:13:08
1	Se 196.026†	-599.4	-569.8	26.096 ug/L	26.096 ppb	02:13:08
1	Si 251.611†	1359063.6	1329870.4	49515 ug/L	49515 ppb	02:12:43
1	Sn 189.927†	-66.4	-68.1	-20.518 ug/L	-20.518 ppb	02:13:08
1	Ti 334.940†	2368743.4	2319861.1	3992.0 ug/L	3992.0 ppb	02:12:43
1	Tl 190.801†	-186.6	-157.6	-10.317 ug/L	-10.317 ppb	02:13:08
1	U 409.014†	-9637.1	-7398.6	-235.18 ug/L	-235.18 ppb	02:12:43
1	V 292.402†	37472.7	38109.8	267.56 ug/L	267.56 ppb	02:12:48
1	Zn 213.857†	46490.4	44903.3	510.10 ug/L	510.10 ppb	02:12:48
1	SiO2†	1384443.6	1354687.1	108230 ug/L	108230 ppb	02:14:17
2	Sc Radial	4247.6	4247.6	105 %		02:12:10
2	Y RADIAL	5103.4	5103.4	113.0 %		02:12:10
2	Al 396.153Radial†	93727.2	89090.0	94949 ug/L	94949 ppb	02:11:50
2	Ca 317.933Radial†	9359.6	8871.4	18025 ug/L	18025 ppb	02:11:50
2	Fe 238.204 Radial†	12693.7	12045.9	150630 ug/L	150630 ppb	02:11:50
2	K 766.490 Radial†	103875.8	95845.0	19126 ug/L	19126 ppb	02:11:50
2	Mg 279.077 IEC†	530.6	503.2	21823 ug/L	21823 ppb	02:12:10
2	Na 589.592 Radial†	3431.4	3719.6	1460.7 ug/L	1460.7 ppb	02:11:50
2	Sr 421.552†	20763.1	19648.1	167.18 ug/L	167.18 ppb	02:11:50
2	Sc 361.383	865655.2	865655.2	103.07 %		02:13:14
2	Y 371.029	819992.2	819992.2	114.51 %		02:13:14
2	Ag 328.068†	-9341.9	-9316.8	0.7201 ug/L	0.7201 ppb	02:13:19
2	As 188.979†	-55.8	-33.3	51.986 ug/L	51.986 ppb	02:13:39
2	B 249.677†	1448.6	1655.6	20.860 ug/L	20.860 ppb	02:13:19
2	Ba 233.527†	88413.5	85759.9	809.18 ug/L	809.18 ppb	02:13:19
2	Be 313.107†	-2874.7	1473.7	9.6447 ug/L	9.6447 ppb	02:13:19
2	Cd 226.502†	1071.6	1206.1	1.4849 ug/L	1.4849 ppb	02:13:39
2	Co 228.616†	2536.9	2500.2	54.847 ug/L	54.847 ppb	02:13:39
2	Cr 267.716†	13572.2	13072.7	186.65 ug/L	186.65 ppb	02:13:19
2	Cu 324.752†	39352.1	31826.5	111.29 ug/L	111.29 ppb	02:13:19
2	Mn 257.610†	3005882.6	2915843.4	3839.7 ug/L	3839.7 ppb	02:13:14
2	Mo 202.031†	-54.1	-66.7	6.0465 ug/L	6.0465 ppb	02:13:39
2	Ni 231.604†	3961.2	3749.5	117.04 ug/L	117.04 ppb	02:13:39

2	P 214.914†	1486.4	1273.9	797.34 ug/L	797.34 ppb	02:13:39
2	Pb 220.353†	966.0	996.1	149.93 ug/L	149.93 ppb	02:13:39
2	S 181.975 Axial†	378.5	342.9	583.19 ug/L	583.19 ppb	02:13:39
2	Sb 206.836†	70.0	41.3	0.7103 ug/L	0.7103 ppb	02:13:39
2	Se 196.026†	-610.7	-575.6	23.555 ug/L	23.555 ppb	02:13:39
2	Si 251.611†	1369469.5	1328128.6	49450 ug/L	49450 ppb	02:13:14
2	Sn 189.927†	-66.9	-68.0	-20.500 ug/L	-20.500 ppb	02:13:39
2	Ti 334.940†	2386056.5	2316026.3	3985.4 ug/L	3985.4 ppb	02:13:14
2	Tl 190.801†	-187.4	-156.7	-10.092 ug/L	-10.092 ppb	02:13:39
2	U 409.014†	-9434.0	-7117.7	-226.99 ug/L	-226.99 ppb	02:13:14
2	V 292.402†	37646.5	37952.1	266.29 ug/L	266.29 ppb	02:13:19
2	Zn 213.857†	46756.5	44756.5	508.27 ug/L	508.27 ppb	02:13:19
2	SiO2†	1368268.0	1326935.0	106020 ug/L	106020 ppb	02:14:23
3	Sc Radial	4266.4	4266.4	106 %		02:12:36
3	Y RADIAL	5131.7	5131.7	113.6 %		02:12:36
3	Al 396.153Radial†	94844.3	89753.7	95656 ug/L	95656 ppb	02:12:16
3	Ca 317.933Radial†	9464.8	8931.7	18147 ug/L	18147 ppb	02:12:16
3	Fe 238.204 Radial†	12810.0	12102.7	151340 ug/L	151340 ppb	02:12:16
3	K 766.490 Radial†	105057.9	96527.6	19262 ug/L	19262 ppb	02:12:16
3	Mg 279.077 IEC†	528.9	499.4	21655 ug/L	21655 ppb	02:12:36
3	Na 589.592 Radial†	3445.0	3718.1	1460.2 ug/L	1460.2 ppb	02:12:16
3	Sr 421.552†	21029.3	19812.9	168.58 ug/L	168.58 ppb	02:12:16
3	Sc 361.383	867497.8	867497.8	103.29 %		02:13:45
3	Y 371.029	820094.6	820094.6	114.53 %		02:13:45
3	Ag 328.068†	-9177.0	-9138.0	1.8365 ug/L	1.8365 ppb	02:13:50
3	As 188.979†	-59.8	-37.1	50.195 ug/L	50.195 ppb	02:14:10
3	B 249.677†	1423.2	1628.0	19.990 ug/L	19.990 ppb	02:13:50
3	Ba 233.527†	88102.0	85276.1	804.67 ug/L	804.67 ppb	02:13:50
3	Be 313.107†	-2652.9	1694.3	9.7547 ug/L	9.7547 ppb	02:13:50
3	Cd 226.502†	1079.4	1211.4	1.4861 ug/L	1.4861 ppb	02:14:10
3	Co 228.616†	2507.7	2466.7	53.946 ug/L	53.946 ppb	02:14:10
3	Cr 267.716†	13448.7	12925.2	184.81 ug/L	184.81 ppb	02:13:50
3	Cu 324.752†	39135.1	31535.3	110.38 ug/L	110.38 ppb	02:13:50
3	Mn 257.610†	3023737.0	2926934.6	3854.3 ug/L	3854.3 ppb	02:13:45
3	Mo 202.031†	-51.3	-63.8	6.3520 ug/L	6.3520 ppb	02:14:10
3	Ni 231.604†	3969.8	3749.7	117.05 ug/L	117.05 ppb	02:14:10
3	P 214.914†	1494.5	1278.7	800.59 ug/L	800.59 ppb	02:14:10
3	Pb 220.353†	988.2	1015.6	152.93 ug/L	152.93 ppb	02:14:10
3	S 181.975 Axial†	376.4	340.0	578.03 ug/L	578.03 ppb	02:14:10
3	Sb 206.836†	59.8	31.3	-3.5857 ug/L	-3.5857 ppb	02:14:10
3	Se 196.026†	-602.6	-566.5	33.206 ug/L	33.206 ppb	02:14:10
3	Si 251.611†	1375840.0	1331474.1	49575 ug/L	49575 ppb	02:13:45
3	Sn 189.927†	-62.9	-64.0	-19.629 ug/L	-19.629 ppb	02:14:10
3	Ti 334.940†	2396520.4	2321239.7	3994.4 ug/L	3994.4 ppb	02:13:45
3	Tl 190.801†	-176.7	-145.9	-5.7673 ug/L	-5.7673 ppb	02:14:10
3	U 409.014†	-9534.2	-7195.2	-229.34 ug/L	-229.34 ppb	02:13:45
3	V 292.402†	37548.0	37779.1	264.84 ug/L	264.84 ppb	02:13:50
3	Zn 213.857†	46556.1	44466.2	504.72 ug/L	504.72 ppb	02:13:50
3	SiO2†	1392624.0	1347695.3	107670 ug/L	107670 ppb	02:14:28

Mean Data: 247907005|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	863701.9	102.84 %	0.603			0.59%
Sc Radial	4250.6	105 %	0.4			0.34%
Y 371.029	817637.9	114.18 %	0.582			0.51%
Y RADIAL	5113.7	113.2 %	0.35			0.31%
Ag 328.068†	-9280.8	0.9151 ug/L	0.84096	0.9151 ppb	0.84096	91.89%
Al 396.153Radial†	89104.8	94964 ug/L	683.7	94964 ppb	683.7	0.72%
As 188.979†	-33.1	52.139 ug/L	2.0247	52.139 ppb	2.0247	3.88%
B 249.677†	1642.2	20.489 ug/L	0.4485	20.489 ppb	0.4485	2.19%
Ba 233.527†	85724.6	808.85 ug/L	4.031	808.85 ppb	4.031	0.50%
Be 313.107†	1599.5	9.7076 ug/L	0.05664	9.7076 ppb	0.05664	0.58%
Ca 317.933Radial†	8870.9	18023 ug/L	124.1	18023 ppb	124.1	0.69%
Cd 226.502†	1222.0	1.7057 ug/L	0.38141	1.7057 ppb	0.38141	22.36%
Co 228.616†	2484.1	54.416 ug/L	0.4516	54.416 ppb	0.4516	0.83%
Cr 267.716†	13021.7	185.99 ug/L	1.030	185.99 ppb	1.030	0.55%
Cu 324.752†	31770.1	111.11 ug/L	0.655	111.11 ppb	0.655	0.59%
Fe 238.204 Radial†	12048.6	150670 ug/L	659.6	150670 ppb	659.6	0.44%
K 766.490 Radial†	95915.8	19140 ug/L	115.7	19140 ppb	115.7	0.60%

Mg 279.077 IEC†	501.8	21764 ug/L	94.3	21764 ppb	94.3	0.43%
Mn 257.610†	2921263.6	3846.8 ug/L	7.32	3846.8 ppb	7.32	0.19%
Mo 202.031†	-69.5	5.8033 ug/L	0.70263	5.8033 ppb	0.70263	12.11%
Na 589.592 Radial†	3709.5	1456.8 ug/L	6.37	1456.8 ppb	6.37	0.44%
Ni 231.604†	3758.0	117.30 ug/L	0.453	117.30 ppb	0.453	0.39%
P 214.914†	1285.9	805.97 ug/L	12.239	805.97 ppb	12.239	1.52%
Pb 220.353†	1009.2	151.90 ug/L	1.707	151.90 ppb	1.707	1.12%
S 181.975 Axial†	344.5	586.06 ug/L	9.789	586.06 ppb	9.789	1.67%
Sb 206.836†	37.7	-0.8555 ug/L	2.37296	-0.8555 ppb	2.37296	277.38%
Se 196.026†	-570.6	27.619 ug/L	5.0026	27.619 ppb	5.0026	18.11%
Si 251.611†	1329824.4	49514 ug/L	62.3	49514 ppb	62.3	0.13%
Sn 189.927†	-66.7	-20.216 ug/L	0.5079	-20.216 ppb	0.5079	2.51%
Sr 421.552†	19654.8	167.24 ug/L	1.317	167.24 ppb	1.317	0.79%
Ti 334.940†	2319042.4	3990.6 ug/L	4.66	3990.6 ppb	4.66	0.12%
Tl 190.801†	-153.4	-8.7256 ug/L	2.56440	-8.7256 ppb	2.56440	29.39%
U 409.014†	-7237.2	-230.50 ug/L	4.219	-230.50 ppb	4.219	1.83%
V 292.402†	37947.0	266.23 ug/L	1.360	266.23 ppb	1.360	0.51%
Zn 213.857†	44708.7	507.70 ug/L	2.738	507.70 ppb	2.738	0.54%
SiO2†	1343105.8	107310 ug/L	1153.2	107310 ppb	1153.2	1.07%

Sequence No.: 84

Sample ID: 247907006|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/26/2010 02:16:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907006|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4148.4	4148.4	103 %		02:18:33
1	Y RADIAL	5453.2	5453.2	120.7 %		02:18:33
1	Al 396.153Radial†	25781.6	25149.5	26803 ug/L	26803 ppb	02:18:33
1	Ca 317.933Radial†	1541.7	1482.0	3011.0 ug/L	3011.0 ppb	02:18:53
1	Fe 238.204 Radial†	8048.7	7817.5	97756 ug/L	97756 ppb	02:18:33
1	K 766.490 Radial†	33882.6	30143.9	6014.2 ug/L	6014.2 ppb	02:18:33
1	Mg 279.077 IEC†	97.6	94.2	4014.6 ug/L	4014.6 ppb	02:18:53
1	Na 589.592 Radial†	11186.6	11338.6	4452.8 ug/L	4452.8 ppb	02:18:33
1	Sr 421.552†	3638.7	3468.3	29.512 ug/L	29.512 ppb	02:18:33
1	Sc 361.383	844859.3	844859.3	100.60 %		02:19:51
1	Y 371.029	869366.4	869366.4	121.41 %		02:19:51
1	Ag 328.068†	-5690.6	-5910.3	0.9282 ug/L	0.9282 ppb	02:19:56
1	As 188.979†	-59.7	-38.5	33.738 ug/L	33.738 ppb	02:20:16
1	B 249.677†	265.7	514.3	-1.7824 ug/L	-1.7824 ppb	02:19:56
1	Ba 233.527†	9662.4	9586.7	92.991 ug/L	92.991 ppb	02:19:56
1	Be 313.107†	-17629.7	-13262.6	2.8708 ug/L	2.8708 ppb	02:19:56
1	Cd 226.502†	608.2	771.0	0.7460 ug/L	0.7460 ppb	02:20:16
1	Co 228.616†	565.6	601.2	6.6264 ug/L	6.6264 ppb	02:20:16
1	Cr 267.716†	7270.7	7132.6	103.44 ug/L	103.44 ppb	02:20:16
1	Cu 324.752†	17681.8	11224.3	41.750 ug/L	41.750 ppb	02:19:56
1	Mn 257.610†	1551634.8	1541992.3	2032.7 ug/L	2032.7 ppb	02:19:51
1	Mo 202.031†	52.6	38.1	10.972 ug/L	10.972 ppb	02:20:16
1	Ni 231.604†	1788.0	1683.8	52.567 ug/L	52.567 ppb	02:20:16
1	P 214.914†	837.5	664.3	398.33 ug/L	398.33 ppb	02:20:16
1	Pb 220.353†	457.2	513.3	69.437 ug/L	69.437 ppb	02:20:16
1	S 181.975 Axial†	167.3	141.9	243.79 ug/L	243.79 ppb	02:20:16
1	Sb 206.836†	49.0	22.1	-3.8936 ug/L	-3.8936 ppb	02:20:16
1	Se 196.026†	-381.3	-362.1	11.089 ug/L	11.089 ppb	02:20:16
1	Si 251.611†	1007698.0	1001204.1	37278 ug/L	37278 ppb	02:19:51
1	Sn 189.927†	72.9	69.3	10.279 ug/L	10.279 ppb	02:20:16
1	Ti 334.940†	2125033.9	2113531.0	3636.5 ug/L	3636.5 ppb	02:19:51
1	Tl 190.801†	-143.4	-117.4	-5.7549 ug/L	-5.7549 ppb	02:20:16
1	U 409.014†	-13204.5	-11091.1	-337.70 ug/L	-337.70 ppb	02:19:51
1	V 292.402†	7235.8	8620.5	47.833 ug/L	47.833 ppb	02:19:56
1	Zn 213.857†	43926.9	43060.3	496.54 ug/L	496.54 ppb	02:19:56
1	SiO2†	1031906.5	1025241.3	81912 ug/L	81912 ppb	02:21:25
2	Sc Radial	4297.8	4297.8	107 %		02:18:58
2	Y RADIAL	5623.9	5623.9	124.5 %		02:18:58
2	Al 396.153Radial†	26328.6	24791.3	26421 ug/L	26421 ppb	02:18:58
2	Ca 317.933Radial†	1553.0	1440.4	2926.6 ug/L	2926.6 ppb	02:19:18
2	Fe 238.204 Radial†	8176.3	7665.2	95851 ug/L	95851 ppb	02:18:58
2	K 766.490 Radial†	34412.5	29495.8	5884.8 ug/L	5884.8 ppb	02:18:58
2	Mg 279.077 IEC†	96.3	89.7	3816.1 ug/L	3816.1 ppb	02:19:18
2	Na 589.592 Radial†	11332.8	11097.7	4358.2 ug/L	4358.2 ppb	02:18:58
2	Sr 421.552†	3678.6	3382.6	28.783 ug/L	28.783 ppb	02:18:58
2	Sc 361.383	857481.8	857481.8	102.10 %		02:20:22
2	Y 371.029	881544.8	881544.8	123.11 %		02:20:22
2	Ag 328.068†	-5699.2	-5835.5	0.7088 ug/L	0.7088 ppb	02:20:27
2	As 188.979†	-62.5	-40.4	32.236 ug/L	32.236 ppb	02:20:47
2	B 249.677†	427.4	668.7	2.7720 ug/L	2.7720 ppb	02:20:27
2	Ba 233.527†	9572.3	9357.0	90.777 ug/L	90.777 ppb	02:20:27
2	Be 313.107†	-17716.1	-13089.2	2.9256 ug/L	2.9256 ppb	02:20:27
2	Cd 226.502†	622.9	776.5	1.0216 ug/L	1.0216 ppb	02:20:47
2	Co 228.616†	573.2	600.3	6.6463 ug/L	6.6463 ppb	02:20:47
2	Cr 267.716†	7301.5	7056.4	102.24 ug/L	102.24 ppb	02:20:47
2	Cu 324.752†	17741.4	11024.0	40.997 ug/L	40.997 ppb	02:20:27
2	Mn 257.610†	1571667.6	1538907.9	2028.4 ug/L	2028.4 ppb	02:20:22
2	Mo 202.031†	58.9	43.5	11.302 ug/L	11.302 ppb	02:20:47
2	Ni 231.604†	1823.2	1692.1	52.827 ug/L	52.827 ppb	02:20:47

2	P 214.914†	833.0	647.7	387.99 ug/L	387.99 ppb	02:20:47
2	Pb 220.353†	468.5	517.7	70.289 ug/L	70.289 ppb	02:20:47
2	S 181.975 Axial†	169.6	141.8	243.56 ug/L	243.56 ppb	02:20:47
2	Sb 206.836†	49.3	21.6	-4.0406 ug/L	-4.0406 ppb	02:20:47
2	Se 196.026†	-380.4	-355.6	10.463 ug/L	10.463 ppb	02:20:47
2	Si 251.611†	1021419.1	999897.3	37229 ug/L	37229 ppb	02:20:22
2	Sn 189.927†	75.7	71.0	10.749 ug/L	10.749 ppb	02:20:47
2	Ti 334.940†	2152692.6	2109525.1	3629.6 ug/L	3629.6 ppb	02:20:22
2	Tl 190.801†	-153.4	-125.2	-8.8209 ug/L	-8.8209 ppb	02:20:47
2	U 409.014†	-13248.5	-10941.0	-333.07 ug/L	-333.07 ppb	02:20:22
2	V 292.402†	7181.8	8461.7	46.905 ug/L	46.905 ppb	02:20:27
2	Zn 213.857†	43947.3	42437.5	489.42 ug/L	489.42 ppb	02:20:27
2	SiO2†	1023509.7	1001917.0	80048 ug/L	80048 ppb	02:21:30
3	Sc Radial	4272.2	4272.2	106 %		02:19:23
3	Y RADIAL	5585.9	5585.9	123.6 %		02:19:23
3	Al 396.153Radial†	26393.3	25000.0	26644 ug/L	26644 ppb	02:19:23
3	Ca 317.933Radial†	1543.7	1440.3	2926.4 ug/L	2926.4 ppb	02:19:44
3	Fe 238.204 Radial†	8189.6	7723.6	96581 ug/L	96581 ppb	02:19:23
3	K 766.490 Radial†	34631.0	29895.2	5964.5 ug/L	5964.5 ppb	02:19:23
3	Mg 279.077 IEC†	96.0	90.0	3828.5 ug/L	3828.5 ppb	02:19:44
3	Na 589.592 Radial†	11337.1	11165.3	4384.8 ug/L	4384.8 ppb	02:19:23
3	Sr 421.552†	3738.3	3459.7	29.439 ug/L	29.439 ppb	02:19:23
3	Sc 361.383	855543.6	855543.6	101.87 %		02:20:53
3	Y 371.029	878188.6	878188.6	122.64 %		02:20:53
3	Ag 328.068†	-5771.3	-5918.9	0.5233 ug/L	0.5233 ppb	02:20:58
3	As 188.979†	-64.0	-42.0	31.618 ug/L	31.618 ppb	02:21:18
3	B 249.677†	337.7	581.6	0.2579 ug/L	0.2579 ppb	02:20:58
3	Ba 233.527†	9627.8	9432.7	91.511 ug/L	91.511 ppb	02:20:58
3	Be 313.107†	-17374.9	-12793.5	3.0699 ug/L	3.0699 ppb	02:20:58
3	Cd 226.502†	630.9	785.7	1.0741 ug/L	1.0741 ppb	02:21:18
3	Co 228.616†	586.5	614.7	6.9876 ug/L	6.9876 ppb	02:21:18
3	Cr 267.716†	7286.4	7057.9	102.34 ug/L	102.34 ppb	02:21:18
3	Cu 324.752†	17671.3	10994.5	40.944 ug/L	40.944 ppb	02:20:58
3	Mn 257.610†	1574078.6	1544762.0	2036.2 ug/L	2036.2 ppb	02:20:53
3	Mo 202.031†	58.6	43.4	11.344 ug/L	11.344 ppb	02:21:18
3	Ni 231.604†	1793.1	1666.6	52.030 ug/L	52.030 ppb	02:21:18
3	P 214.914†	837.7	654.1	392.08 ug/L	392.08 ppb	02:21:18
3	Pb 220.353†	482.9	532.9	72.523 ug/L	72.523 ppb	02:21:18
3	S 181.975 Axial†	164.7	137.3	235.67 ug/L	235.67 ppb	02:21:18
3	Sb 206.836†	59.8	32.0	0.2959 ug/L	0.2959 ppb	02:21:18
3	Se 196.026†	-378.5	-354.6	13.543 ug/L	13.543 ppb	02:21:18
3	Si 251.611†	1022293.8	1003022.4	37346 ug/L	37346 ppb	02:20:53
3	Sn 189.927†	62.1	57.9	7.8019 ug/L	7.8019 ppb	02:21:18
3	Ti 334.940†	2154162.8	2115744.8	3640.3 ug/L	3640.3 ppb	02:20:53
3	Tl 190.801†	-144.9	-117.2	-5.6030 ug/L	-5.6030 ppb	02:21:18
3	U 409.014†	-13463.8	-11181.7	-340.23 ug/L	-340.23 ppb	02:20:53
3	V 292.402†	7276.4	8570.5	47.613 ug/L	47.613 ppb	02:20:58
3	Zn 213.857†	43823.4	42413.4	489.03 ug/L	489.03 ppb	02:20:58
3	SiO2†	1027081.4	1007694.3	80510 ug/L	80510 ppb	02:21:36

Mean Data: 247907006|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852628.3	101.52 %	0.809			0.80%
Sc Radial	4239.5	105 %	2.0			1.89%
Y 371.029	876366.6	122.38 %	0.878			0.72%
Y RADIAL	5554.3	122.9 %	1.98			1.61%
Ag 328.068†	-5888.2	0.7201 ug/L	0.20267	0.7201 ppb	0.20267	28.15%
Al 396.153Radial†	24980.3	26623 ug/L	191.8	26623 ppb	191.8	0.72%
As 188.979†	-40.3	32.531 ug/L	1.0900	32.531 ppb	1.0900	3.35%
B 249.677†	588.2	0.4158 ug/L	2.28128	0.4158 ppb	2.28128	548.61%
Ba 233.527†	9458.8	91.760 ug/L	1.1276	91.760 ppb	1.1276	1.23%
Be 313.107†	-13048.4	2.9554 ug/L	0.10284	2.9554 ppb	0.10284	3.48%
Ca 317.933Radial†	1454.3	2954.7 ug/L	48.80	2954.7 ppb	48.80	1.65%
Cd 226.502†	777.7	0.9472 ug/L	0.17623	0.9472 ppb	0.17623	18.60%
Co 228.616†	605.4	6.7534 ug/L	0.20303	6.7534 ppb	0.20303	3.01%
Cr 267.716†	7082.3	102.68 ug/L	0.664	102.68 ppb	0.664	0.65%
Cu 324.752†	11080.9	41.231 ug/L	0.4507	41.231 ppb	0.4507	1.09%
Fe 238.204 Radial†	7735.4	96729 ug/L	961.1	96729 ppb	961.1	0.99%
K 766.490 Radial†	29845.0	5954.5 ug/L	65.24	5954.5 ppb	65.24	1.10%

Mg 279.077 IEC†	91.3	3886.4 ug/L	111.17	3886.4 ppb	111.17	2.86%
Mn 257.610†	1541887.4	2032.4 ug/L	3.88	2032.4 ppb	3.88	0.19%
Mo 202.031†	41.7	11.206 ug/L	0.2041	11.206 ppb	0.2041	1.82%
Na 589.592 Radial†	11200.5	4398.6 ug/L	48.81	4398.6 ppb	48.81	1.11%
Ni 231.604†	1680.8	52.475 ug/L	0.4064	52.475 ppb	0.4064	0.77%
P 214.914†	655.4	392.80 ug/L	5.211	392.80 ppb	5.211	1.33%
Pb 220.353†	521.3	70.750 ug/L	1.5937	70.750 ppb	1.5937	2.25%
S 181.975 Axial†	140.3	241.00 ug/L	4.621	241.00 ppb	4.621	1.92%
Sb 206.836†	25.3	-2.5461 ug/L	2.46236	-2.5461 ppb	2.46236	96.71%
Se 196.026†	-357.4	11.698 ug/L	1.6275	11.698 ppb	1.6275	13.91%
Si 251.611†	1001374.6	37284 ug/L	58.4	37284 ppb	58.4	0.16%
Sn 189.927†	66.1	9.6101 ug/L	1.58344	9.6101 ppb	1.58344	16.48%
Sr 421.552†	3436.9	29.245 ug/L	0.4015	29.245 ppb	0.4015	1.37%
Ti 334.940†	2112933.6	3635.5 ug/L	5.42	3635.5 ppb	5.42	0.15%
Tl 190.801†	-119.9	-6.7263 ug/L	1.81558	-6.7263 ppb	1.81558	26.99%
U 409.014†	-11071.3	-337.00 ug/L	3.634	-337.00 ppb	3.634	1.08%
V 292.402†	8550.9	47.450 ug/L	0.4848	47.450 ppb	0.4848	1.02%
Zn 213.857†	42637.1	491.66 ug/L	4.225	491.66 ppb	4.225	0.86%
SiO2†	1011617.5	80823 ug/L	970.5	80823 ppb	970.5	1.20%

Sequence No.: 85

Sample ID: 247907007|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 3/26/2010 02:23:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907007|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4250.1	4250.1	105 %		02:25:42
1	Y RADIAL	7262.4	7262.4	160.7 %		02:25:42
1	Al 396.153Radial†	50930.5	48418.9	51603 ug/L	51603 ppb	02:25:42
1	Ca 317.933Radial†	9233.0	8746.0	17770 ug/L	17770 ppb	02:25:42
1	Fe 238.204 Radial†	10208.4	9680.0	121050 ug/L	121050 ppb	02:25:42
1	K 766.490 Radial†	43584.3	38563.5	7691.0 ug/L	7691.0 ppb	02:25:42
1	Mg 279.077 IEC†	239.2	226.3	9759.8 ug/L	9759.8 ppb	02:26:02
1	Na 589.592 Radial†	2292.8	2637.0	1035.6 ug/L	1035.6 ppb	02:25:42
1	Sr 421.552†	17220.1	16274.0	138.45 ug/L	138.45 ppb	02:25:42
1	Sc 361.383	866548.2	866548.2	103.18 %		02:27:00
1	Y 371.029	1163502.9	1163502.9	162.48 %		02:27:00
1	Ag 328.068†	-7351.1	-7378.0	1.0047 ug/L	1.0047 ppb	02:27:05
1	As 188.979†	-11.8	9.4	65.401 ug/L	65.401 ppb	02:27:25
1	B 249.677†	875.1	1098.3	10.451 ug/L	10.451 ppb	02:27:05
1	Ba 233.527†	57955.3	56151.5	530.37 ug/L	530.37 ppb	02:27:05
1	Be 313.107†	7408.0	11442.6	13.037 ug/L	13.037 ppb	02:27:05
1	Cd 226.502†	805.6	947.2	0.7803 ug/L	0.7803 ppb	02:27:25
1	Co 228.616†	1097.8	1102.9	19.447 ug/L	19.447 ppb	02:27:25
1	Cr 267.716†	4517.1	4283.0	69.002 ug/L	69.002 ppb	02:27:25
1	Cu 324.752†	27206.7	20015.9	71.626 ug/L	71.626 ppb	02:27:05
1	Mn 257.610†	2311902.7	2240235.3	2950.9 ug/L	2950.9 ppb	02:27:00
1	Mo 202.031†	34.3	19.1	11.283 ug/L	11.283 ppb	02:27:25
1	Ni 231.604†	1937.6	1784.3	55.699 ug/L	55.699 ppb	02:27:25
1	P 214.914†	1009.2	809.9	484.48 ug/L	484.48 ppb	02:27:25
1	Pb 220.353†	671.1	709.2	101.34 ug/L	101.34 ppb	02:27:25
1	S 181.975 Axial†	251.3	219.2	374.50 ug/L	374.50 ppb	02:27:25
1	Sb 206.836†	39.1	11.2	-9.9324 ug/L	-9.9324 ppb	02:27:25
1	Se 196.026†	-472.5	-441.0	26.613 ug/L	26.613 ppb	02:27:25
1	Si 251.611†	1174240.4	1137544.2	42354 ug/L	42354 ppb	02:27:00
1	Sn 189.927†	-60.6	-61.8	-17.489 ug/L	-17.489 ppb	02:27:25
1	Ti 334.940†	2215439.9	2148279.7	3697.9 ug/L	3697.9 ppb	02:27:00
1	Tl 190.801†	-175.6	-145.1	-11.773 ug/L	-11.773 ppb	02:27:25
1	U 409.014†	-22170.4	-19452.3	-586.30 ug/L	-586.30 ppb	02:27:00
1	V 292.402†	16478.7	17398.6	111.68 ug/L	111.68 ppb	02:27:05
1	Zn 213.857†	49821.3	47680.2	547.87 ug/L	547.87 ppb	02:27:05
1	SiO2†	1172725.3	1136047.8	90765 ug/L	90765 ppb	02:28:34
2	Sc Radial	4315.0	4315.0	107 %		02:26:07
2	Y RADIAL	7411.3	7411.3	164.0 %		02:26:07
2	Al 396.153Radial†	51572.5	48291.3	51467 ug/L	51467 ppb	02:26:07
2	Ca 317.933Radial†	9341.6	8715.7	17708 ug/L	17708 ppb	02:26:07
2	Fe 238.204 Radial†	10302.4	9622.1	120320 ug/L	120320 ppb	02:26:07
2	K 766.490 Radial†	43911.8	38247.0	7627.8 ug/L	7627.8 ppb	02:26:07
2	Mg 279.077 IEC†	236.7	220.5	9508.4 ug/L	9508.4 ppb	02:26:27
2	Na 589.592 Radial†	2336.2	2644.9	1038.7 ug/L	1038.7 ppb	02:26:07
2	Sr 421.552†	17512.1	16300.9	138.68 ug/L	138.68 ppb	02:26:07
2	Sc 361.383	866460.1	866460.1	103.17 %		02:27:31
2	Y 371.029	1159494.5	1159494.5	161.92 %		02:27:31
2	Ag 328.068†	-7561.4	-7582.7	-0.2450 ug/L	-0.2450 ppb	02:27:36
2	As 188.979†	-21.6	-0.1	60.193 ug/L	60.193 ppb	02:27:56
2	B 249.677†	838.0	1062.5	9.5830 ug/L	9.5830 ppb	02:27:36
2	Ba 233.527†	58670.2	56850.2	536.90 ug/L	536.90 ppb	02:27:36
2	Be 313.107†	7892.1	11912.5	13.245 ug/L	13.245 ppb	02:27:36
2	Cd 226.502†	784.8	927.1	0.5723 ug/L	0.5723 ppb	02:27:56
2	Co 228.616†	1100.6	1105.7	19.517 ug/L	19.517 ppb	02:27:56
2	Cr 267.716†	4525.5	4291.6	69.039 ug/L	69.039 ppb	02:27:56
2	Cu 324.752†	27558.9	20360.0	72.703 ug/L	72.703 ppb	02:27:36
2	Mn 257.610†	2319640.2	2247963.1	2960.9 ug/L	2960.9 ppb	02:27:31
2	Mo 202.031†	28.1	13.0	10.695 ug/L	10.695 ppb	02:27:56
2	Ni 231.604†	1955.9	1802.2	56.258 ug/L	56.258 ppb	02:27:56

2	P 214.914†	1010.4	811.2	485.73 ug/L	485.73 ppb	02:27:56
2	Pb 220.353†	673.3	711.4	101.74 ug/L	101.74 ppb	02:27:56
2	S 181.975 Axial†	259.5	227.1	388.49 ug/L	388.49 ppb	02:27:56
2	Sb 206.836†	51.3	23.1	-4.9286 ug/L	-4.9286 ppb	02:27:56
2	Se 196.026†	-467.1	-435.8	28.579 ug/L	28.579 ppb	02:27:56
2	Si 251.611†	1176215.3	1139574.1	42430 ug/L	42430 ppb	02:27:31
2	Sn 189.927†	-66.8	-67.8	-18.779 ug/L	-18.779 ppb	02:27:56
2	Ti 334.940†	2219773.5	2152698.5	3705.6 ug/L	3705.6 ppb	02:27:31
2	Tl 190.801†	-171.9	-141.5	-10.263 ug/L	-10.263 ppb	02:27:56
2	U 409.014†	-22150.7	-19435.4	-585.72 ug/L	-585.72 ppb	02:27:31
2	V 292.402†	16663.8	17579.7	113.16 ug/L	113.16 ppb	02:27:36
2	Zn 213.857†	50545.2	48386.8	556.37 ug/L	556.37 ppb	02:27:36
2	SiO2†	1183572.0	1146677.0	91614 ug/L	91614 ppb	02:28:39
3	Sc Radial	4317.9	4317.9	107 %		02:26:33
3	Y RADIAL	7388.6	7388.6	163.5 %		02:26:33
3	Al 396.153Radial†	51371.7	48071.8	51233 ug/L	51233 ppb	02:26:33
3	Ca 317.933Radial†	9304.7	8675.4	17626 ug/L	17626 ppb	02:26:33
3	Fe 238.204 Radial†	10222.1	9540.6	119300 ug/L	119300 ppb	02:26:33
3	K 766.490 Radial†	43802.4	38117.5	7602.0 ug/L	7602.0 ppb	02:26:33
3	Mg 279.077 IEC†	237.5	221.1	9535.8 ug/L	9535.8 ppb	02:26:53
3	Na 589.592 Radial†	2251.7	2564.5	1007.1 ug/L	1007.1 ppb	02:26:33
3	Sr 421.552†	17400.5	16185.7	137.70 ug/L	137.70 ppb	02:26:33
3	Sc 361.383	879121.5	879121.5	104.68 %		02:28:02
3	Y 371.029	1177883.4	1177883.4	164.49 %		02:28:02
3	Ag 328.068†	-7393.6	-7316.8	0.7704 ug/L	0.7704 ppb	02:28:07
3	As 188.979†	-23.0	-1.2	59.409 ug/L	59.409 ppb	02:28:27
3	B 249.677†	885.0	1095.6	10.660 ug/L	10.660 ppb	02:28:07
3	Ba 233.527†	58069.0	55456.9	523.80 ug/L	523.80 ppb	02:28:07
3	Be 313.107†	7483.3	11411.7	13.041 ug/L	13.041 ppb	02:28:07
3	Cd 226.502†	795.7	926.6	0.6693 ug/L	0.6693 ppb	02:28:27
3	Co 228.616†	1110.7	1100.0	19.376 ug/L	19.376 ppb	02:28:27
3	Cr 267.716†	4522.4	4225.4	68.066 ug/L	68.066 ppb	02:28:27
3	Cu 324.752†	27327.9	19754.5	70.686 ug/L	70.686 ppb	02:28:07
3	Mn 257.610†	2346791.2	2241519.0	2952.4 ug/L	2952.4 ppb	02:28:02
3	Mo 202.031†	30.0	14.5	10.745 ug/L	10.745 ppb	02:28:27
3	Ni 231.604†	1959.6	1778.5	55.517 ug/L	55.517 ppb	02:28:27
3	P 214.914†	1011.0	797.6	477.17 ug/L	477.17 ppb	02:28:27
3	Pb 220.353†	667.2	696.2	99.538 ug/L	99.538 ppb	02:28:27
3	S 181.975 Axial†	256.0	220.2	376.35 ug/L	376.35 ppb	02:28:27
3	Sb 206.836†	35.2	7.0	-11.730 ug/L	-11.730 ppb	02:28:27
3	Se 196.026†	-461.6	-424.0	34.856 ug/L	34.856 ppb	02:28:27
3	Si 251.611†	1192376.1	1138592.9	42393 ug/L	42393 ppb	02:28:02
3	Sn 189.927†	-55.8	-56.4	-16.210 ug/L	-16.210 ppb	02:28:27
3	Ti 334.940†	2252050.2	2152545.4	3705.3 ug/L	3705.3 ppb	02:28:02
3	Tl 190.801†	-164.3	-131.9	-6.5958 ug/L	-6.5958 ppb	02:28:27
3	U 409.014†	-22467.6	-19428.9	-585.41 ug/L	-585.41 ppb	02:28:02
3	V 292.402†	16536.1	17225.0	110.58 ug/L	110.58 ppb	02:28:07
3	Zn 213.857†	49940.4	47103.3	541.29 ug/L	541.29 ppb	02:28:07
3	SiO2†	1185279.5	1131785.5	90424 ug/L	90424 ppb	02:28:45

Mean Data: 247907007|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870709.9	103.67 %	0.867			0.84%
Sc Radial	4294.3	106 %	1.0			0.89%
Y 371.029	1166960.3	162.97 %	1.350			0.83%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 163.0%						
Y RADIAL	7354.1	162.8 %	1.78			1.09%
Ag 328.068†	-7425.8	0.5100 ug/L	0.66427	0.5100 ppb	0.66427	130.24%
Al 396.153Radial†	48260.6	51434 ug/L	187.1	51434 ppb	187.1	0.36%
As 188.979†	2.7	61.667 ug/L	3.2571	61.667 ppb	3.2571	5.28%
B 249.677†	1085.5	10.232 ug/L	0.5714	10.232 ppb	0.5714	5.58%
Ba 233.527†	56152.9	530.36 ug/L	6.549	530.36 ppb	6.549	1.23%
Be 313.107†	11588.9	13.108 ug/L	0.1189	13.108 ppb	0.1189	0.91%
Ca 317.933Radial†	8712.4	17701 ug/L	72.0	17701 ppb	72.0	0.41%
Cd 226.502†	933.6	0.6740 ug/L	0.10405	0.6740 ppb	0.10405	15.44%
Co 228.616†	1102.9	19.446 ug/L	0.0702	19.446 ppb	0.0702	0.36%
Cr 267.716†	4266.7	68.702 ug/L	0.5513	68.702 ppb	0.5513	0.80%
Cu 324.752†	20043.5	71.672 ug/L	1.0094	71.672 ppb	1.0094	1.41%
Fe 238.204 Radial†	9614.2	120220 ug/L	875.7	120220 ppb	875.7	0.73%

K 766.490 Radial†	38309.3	7640.3 ug/L	45.77	7640.3 ppb	45.77	0.60%
Mg 279.077 IEC†	222.7	9601.3 ug/L	137.95	9601.3 ppb	137.95	1.44%
Mn 257.610†	2243239.1	2954.7 ug/L	5.43	2954.7 ppb	5.43	0.18%
Mo 202.031†	15.5	10.908 ug/L	0.3262	10.908 ppb	0.3262	2.99%
Na 589.592 Radial†	2615.4	1027.1 ug/L	17.40	1027.1 ppb	17.40	1.69%
Ni 231.604†	1788.4	55.824 ug/L	0.3862	55.824 ppb	0.3862	0.69%
P 214.914†	806.2	482.46 ug/L	4.624	482.46 ppb	4.624	0.96%
Pb 220.353†	705.6	100.87 ug/L	1.172	100.87 ppb	1.172	1.16%
S 181.975 Axial†	222.2	379.78 ug/L	7.599	379.78 ppb	7.599	2.00%
Sb 206.836†	13.8	-8.8637 ug/L	3.52445	-8.8637 ppb	3.52445	39.76%
Se 196.026†	-433.6	30.016 ug/L	4.3053	30.016 ppb	4.3053	14.34%
Si 251.611†	1138570.4	42393 ug/L	37.8	42393 ppb	37.8	0.09%
Sn 189.927†	-62.0	-17.492 ug/L	1.2848	-17.492 ppb	1.2848	7.34%
Sr 421.552†	16253.5	138.28 ug/L	0.513	138.28 ppb	0.513	0.37%
Ti 334.940†	2151174.5	3702.9 ug/L	4.32	3702.9 ppb	4.32	0.12%
Tl 190.801†	-139.5	-9.5438 ug/L	2.66238	-9.5438 ppb	2.66238	27.90%
U 409.014†	-19438.9	-585.81 ug/L	0.452	-585.81 ppb	0.452	0.08%
V 292.402†	17401.1	111.80 ug/L	1.296	111.80 ppb	1.296	1.16%
Zn 213.857†	47723.4	548.51 ug/L	7.564	548.51 ppb	7.564	1.38%
SiO2†	1138170.1	90934 ug/L	612.7	90934 ppb	612.7	0.67%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 86

Sample ID: 247907008|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/26/2010 02:30:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907008|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4217.9	4217.9	105 %		02:32:50
1	Y RADIAL	5225.3	5225.3	115.7 %		02:32:50
1	Al 396.153Radial†	67602.3	64731.4	68988 ug/L	68988 ppb	02:32:50
1	Ca 317.933Radial†	7979.3	7613.9	15469 ug/L	15469 ppb	02:32:50
1	Fe 238.204 Radial†	10486.1	10019.4	125290 ug/L	125290 ppb	02:32:50
1	K 766.490 Radial†	59703.1	54294.0	10832 ug/L	10832 ppb	02:32:50
1	Mg 279.077 IEC†	304.6	290.6	12562 ug/L	12562 ppb	02:33:10
1	Na 589.592 Radial†	2330.2	2689.4	1056.2 ug/L	1056.2 ppb	02:32:50
1	Sr 421.552†	14977.6	14253.9	121.26 ug/L	121.26 ppb	02:32:50
1	Sc 361.383	856849.4	856849.4	102.02 %		02:34:08
1	Y 371.029	831841.0	831841.0	116.17 %		02:34:08
1	Ag 328.068†	-7577.8	-7680.9	0.7745 ug/L	0.7745 ppb	02:34:13
1	As 188.979†	-53.4	-31.5	38.396 ug/L	38.396 ppb	02:34:33
1	B 249.677†	976.7	1207.5	12.719 ug/L	12.719 ppb	02:34:13
1	Ba 233.527†	47729.7	46764.5	442.63 ug/L	442.63 ppb	02:34:13
1	Be 313.107†	-2123.9	2180.9	7.6858 ug/L	7.6858 ppb	02:34:13
1	Cd 226.502†	804.2	954.7	0.5578 ug/L	0.5578 ppb	02:34:33
1	Co 228.616†	1678.9	1684.5	35.865 ug/L	35.865 ppb	02:34:33
1	Cr 267.716†	17336.7	16897.9	233.63 ug/L	233.63 ppb	02:34:13
1	Cu 324.752†	24722.3	17879.3	64.730 ug/L	64.730 ppb	02:34:13
1	Mn 257.610†	1880037.7	1842298.1	2429.0 ug/L	2429.0 ppb	02:34:08
1	Mo 202.031†	-12.1	-26.0	7.6228 ug/L	7.6228 ppb	02:34:33
1	Ni 231.604†	4124.0	3948.6	123.27 ug/L	123.27 ppb	02:34:33
1	P 214.914†	1275.8	1082.3	682.55 ug/L	682.55 ppb	02:34:33
1	Pb 220.353†	605.4	652.2	95.947 ug/L	95.947 ppb	02:34:33
1	S 181.975 Axial†	257.3	227.8	386.35 ug/L	386.35 ppb	02:34:33
1	Sb 206.836†	52.4	24.8	-2.2621 ug/L	-2.2621 ppb	02:34:33
1	Se 196.026†	-483.6	-457.1	33.042 ug/L	33.042 ppb	02:34:33
1	Si 251.611†	1261307.6	1235766.4	46011 ug/L	46011 ppb	02:34:08
1	Sn 189.927†	-65.7	-67.5	-19.396 ug/L	-19.396 ppb	02:34:33
1	Ti 334.940†	1775105.9	1740983.2	2996.4 ug/L	2996.4 ppb	02:34:08
1	Tl 190.801†	-128.6	-101.0	-3.1934 ug/L	-3.1934 ppb	02:34:33
1	U 409.014†	-9825.3	-7595.2	-238.26 ug/L	-238.26 ppb	02:34:08
1	V 292.402†	24076.3	25026.3	171.21 ug/L	171.21 ppb	02:34:13
1	Zn 213.857†	39004.3	37624.3	427.36 ug/L	427.36 ppb	02:34:13
1	SiO2†	1278736.2	1252821.4	100090 ug/L	100090 ppb	02:35:42
2	Sc Radial	4324.2	4324.2	107 %		02:33:15
2	Y RADIAL	5337.6	5337.6	118.1 %		02:33:15
2	Al 396.153Radial†	69299.7	64725.4	68982 ug/L	68982 ppb	02:33:15
2	Ca 317.933Radial†	8148.7	7584.3	15409 ug/L	15409 ppb	02:33:15
2	Fe 238.204 Radial†	10695.5	9968.3	124650 ug/L	124650 ppb	02:33:15
2	K 766.490 Radial†	60969.9	54072.1	10788 ug/L	10788 ppb	02:33:15
2	Mg 279.077 IEC†	305.7	284.4	12295 ug/L	12295 ppb	02:33:35
2	Na 589.592 Radial†	2331.0	2635.3	1034.9 ug/L	1034.9 ppb	02:33:15
2	Sr 421.552†	15296.4	14199.1	120.80 ug/L	120.80 ppb	02:33:15
2	Sc 361.383	867102.0	867102.0	103.24 %		02:34:39
2	Y 371.029	840525.8	840525.8	117.38 %		02:34:39
2	Ag 328.068†	-7565.2	-7580.9	1.0685 ug/L	1.0685 ppb	02:34:44
2	As 188.979†	-37.0	-15.0	47.093 ug/L	47.093 ppb	02:35:04
2	B 249.677†	870.9	1093.7	9.6981 ug/L	9.6981 ppb	02:34:44
2	Ba 233.527†	47455.7	45946.0	434.93 ug/L	434.93 ppb	02:34:44
2	Be 313.107†	-2061.9	2265.6	7.7208 ug/L	7.7208 ppb	02:34:44
2	Cd 226.502†	828.8	969.1	0.8279 ug/L	0.8279 ppb	02:35:04
2	Co 228.616†	1650.8	1637.8	34.656 ug/L	34.656 ppb	02:35:04
2	Cr 267.716†	17139.0	16505.5	228.45 ug/L	228.45 ppb	02:34:44
2	Cu 324.752†	24647.1	17519.8	63.529 ug/L	63.529 ppb	02:34:44
2	Mn 257.610†	1903110.8	1842857.6	2429.7 ug/L	2429.7 ppb	02:34:39
2	Mo 202.031†	-24.6	-38.0	6.5158 ug/L	6.5158 ppb	02:35:04
2	Ni 231.604†	4141.7	3918.0	122.31 ug/L	122.31 ppb	02:35:04

2	P 214.914†	1275.3	1067.0	672.33 ug/L	672.33 ppb	02:35:04
2	Pb 220.353†	607.8	647.5	95.328 ug/L	95.328 ppb	02:35:04
2	S 181.975 Axial†	260.2	227.7	386.14 ug/L	386.14 ppb	02:35:04
2	Sb 206.836†	61.4	32.9	1.2161 ug/L	1.2161 ppb	02:35:04
2	Se 196.026†	-482.3	-450.2	36.672 ug/L	36.672 ppb	02:35:04
2	Si 251.611†	1276281.1	1235651.5	46007 ug/L	46007 ppb	02:34:39
2	Sn 189.927†	-48.1	-49.7	-15.426 ug/L	-15.426 ppb	02:35:04
2	Ti 334.940†	1796527.6	1741159.3	2996.7 ug/L	2996.7 ppb	02:34:39
2	Tl 190.801†	-120.4	-91.6	0.4599 ug/L	0.4599 ppb	02:35:04
2	U 409.014†	-9835.4	-7491.2	-235.12 ug/L	-235.12 ppb	02:34:39
2	V 292.402†	24012.3	24685.3	168.66 ug/L	168.66 ppb	02:34:44
2	Zn 213.857†	38821.5	36995.2	419.99 ug/L	419.99 ppb	02:34:44
2	SiO2†	1274075.5	1233487.3	98550 ug/L	98550 ppb	02:35:48
3	Sc Radial	4116.8	4116.8	102 %		02:33:41
3	Y RADIAL	5121.2	5121.2	113.4 %		02:33:41
3	Al 396.153Radial†	66383.9	65125.7	69408 ug/L	69408 ppb	02:33:41
3	Ca 317.933Radial†	7837.0	7661.9	15567 ug/L	15567 ppb	02:33:41
3	Fe 238.204 Radial†	10257.0	10041.3	125560 ug/L	125560 ppb	02:33:41
3	K 766.490 Radial†	58530.8	54548.0	10883 ug/L	10883 ppb	02:33:41
3	Mg 279.077 IEC†	304.4	297.6	12869 ug/L	12869 ppb	02:34:01
3	Na 589.592 Radial†	2234.2	2650.0	1040.7 ug/L	1040.7 ppb	02:33:41
3	Sr 421.552†	14594.9	14230.7	121.07 ug/L	121.07 ppb	02:33:41
3	Sc 361.383	864853.7	864853.7	102.98 %		02:35:10
3	Y 371.029	838326.9	838326.9	117.07 %		02:35:10
3	Ag 328.068†	-7461.3	-7499.0	1.7586 ug/L	1.7586 ppb	02:35:15
3	As 188.979†	-39.4	-17.4	45.975 ug/L	45.975 ppb	02:35:35
3	B 249.677†	802.2	1029.2	7.7747 ug/L	7.7747 ppb	02:35:15
3	Ba 233.527†	46882.4	45508.8	430.86 ug/L	430.86 ppb	02:35:15
3	Be 313.107†	-2208.3	2118.2	7.6446 ug/L	7.6446 ppb	02:35:15
3	Cd 226.502†	820.5	963.2	0.6484 ug/L	0.6484 ppb	02:35:35
3	Co 228.616†	1688.5	1678.6	35.721 ug/L	35.721 ppb	02:35:35
3	Cr 267.716†	16948.8	16363.9	226.70 ug/L	226.70 ppb	02:35:15
3	Cu 324.752†	24378.0	17320.6	62.933 ug/L	62.933 ppb	02:35:15
3	Mn 257.610†	1890723.2	1835620.1	2420.3 ug/L	2420.3 ppb	02:35:10
3	Mo 202.031†	-5.5	-19.5	8.2158 ug/L	8.2158 ppb	02:35:35
3	Ni 231.604†	4131.7	3918.7	122.33 ug/L	122.33 ppb	02:35:35
3	P 214.914†	1276.2	1071.1	674.76 ug/L	674.76 ppb	02:35:35
3	Pb 220.353†	589.0	630.8	92.775 ug/L	92.775 ppb	02:35:35
3	S 181.975 Axial†	252.7	221.0	374.33 ug/L	374.33 ppb	02:35:35
3	Sb 206.836†	71.3	42.6	5.3602 ug/L	5.3602 ppb	02:35:35
3	Se 196.026†	-490.2	-459.1	32.413 ug/L	32.413 ppb	02:35:35
3	Si 251.611†	1270313.7	1233070.3	45911 ug/L	45911 ppb	02:35:10
3	Sn 189.927†	-57.8	-59.3	-17.568 ug/L	-17.568 ppb	02:35:35
3	Ti 334.940†	1787538.2	1736953.3	2989.5 ug/L	2989.5 ppb	02:35:10
3	Tl 190.801†	-126.4	-97.7	-2.0053 ug/L	-2.0053 ppb	02:35:35
3	U 409.014†	-9961.6	-7638.5	-239.55 ug/L	-239.55 ppb	02:35:10
3	V 292.402†	23725.2	24466.9	166.88 ug/L	166.88 ppb	02:35:15
3	Zn 213.857†	38292.4	36579.1	414.91 ug/L	414.91 ppb	02:35:15
3	SiO2†	1280562.4	1242994.8	99309 ug/L	99309 ppb	02:35:54

Mean Data: 247907008|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862935.1	102.75 %	0.642			0.62%
Sc Radial	4219.7	105 %	2.6			2.46%
Y 371.029	836897.9	116.87 %	0.631			0.54%
Y RADIAL	5228.1	115.7 %	2.40			2.07%
Ag 328.068†	-7586.9	1.2005 ug/L	0.50517	1.2005 ppb	0.50517	42.08%
Al 396.153Radial†	64860.8	69126 ug/L	244.5	69126 ppb	244.5	0.35%
As 188.979†	-21.3	43.821 ug/L	4.7316	43.821 ppb	4.7316	10.80%
B 249.677†	1110.1	10.064 ug/L	2.4924	10.064 ppb	2.4924	24.77%
Ba 233.527†	46073.1	436.14 ug/L	5.979	436.14 ppb	5.979	1.37%
Be 313.107†	2188.3	7.6837 ug/L	0.03817	7.6837 ppb	0.03817	0.50%
Ca 317.933Radial†	7620.0	15482 ug/L	79.6	15482 ppb	79.6	0.51%
Cd 226.502†	962.3	0.6780 ug/L	0.13748	0.6780 ppb	0.13748	20.28%
Co 228.616†	1667.0	35.414 ug/L	0.6604	35.414 ppb	0.6604	1.86%
Cr 267.716†	16589.1	229.60 ug/L	3.604	229.60 ppb	3.604	1.57%
Cu 324.752†	17573.2	63.731 ug/L	0.9150	63.731 ppb	0.9150	1.44%
Fe 238.204 Radial†	10009.7	125170 ug/L	468.9	125170 ppb	468.9	0.37%
K 766.490 Radial†	54304.7	10834 ug/L	47.5	10834 ppb	47.5	0.44%

Mg 279.077 IEC†	290.9	12576 ug/L	287.3	12576 ppb	287.3	2.28%
Mn 257.610†	1840258.6	2426.4 ug/L	5.26	2426.4 ppb	5.26	0.22%
Mo 202.031†	-27.9	7.4515 ug/L	0.86282	7.4515 ppb	0.86282	11.58%
Na 589.592 Radial†	2658.2	1043.9 ug/L	10.98	1043.9 ppb	10.98	1.05%
Ni 231.604†	3928.4	122.64 ug/L	0.546	122.64 ppb	0.546	0.45%
P 214.914†	1073.4	676.55 ug/L	5.341	676.55 ppb	5.341	0.79%
Pb 220.353†	643.5	94.683 ug/L	1.6812	94.683 ppb	1.6812	1.78%
S 181.975 Axial†	225.5	382.27 ug/L	6.880	382.27 ppb	6.880	1.80%
Sb 206.836†	33.4	1.4381 ug/L	3.81603	1.4381 ppb	3.81603	265.36%
Se 196.026†	-455.4	34.042 ug/L	2.2994	34.042 ppb	2.2994	6.75%
Si 251.611†	1234829.4	45977 ug/L	56.8	45977 ppb	56.8	0.12%
Sn 189.927†	-58.8	-17.463 ug/L	1.9870	-17.463 ppb	1.9870	11.38%
Sr 421.552†	14227.9	121.04 ug/L	0.234	121.04 ppb	0.234	0.19%
Ti 334.940†	1739698.6	2994.2 ug/L	4.10	2994.2 ppb	4.10	0.14%
Tl 190.801†	-96.7	-1.5796 ug/L	1.86351	-1.5796 ppb	1.86351	117.97%
U 409.014†	-7575.0	-237.64 ug/L	2.282	-237.64 ppb	2.282	0.96%
V 292.402†	24726.2	168.92 ug/L	2.177	168.92 ppb	2.177	1.29%
Zn 213.857†	37066.2	420.75 ug/L	6.260	420.75 ppb	6.260	1.49%
SiO2†	1243101.2	99318 ug/L	772.4	99318 ppb	772.4	0.78%

Sequence No.: 87

Sample ID: 247907009|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 3/26/2010 02:38:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907009|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4274.0	4274.0	106 %		02:39:58
1	Y RADIAL	5548.7	5548.7	122.8 %		02:39:58
1	Al 396.153Radial†	58351.1	55152.5	58779 ug/L	58779 ppb	02:39:58
1	Ca 317.933Radial†	7006.3	6595.5	13400 ug/L	13400 ppb	02:39:58
1	Fe 238.204 Radial†	9484.2	8942.4	111820 ug/L	111820 ppb	02:39:58
1	K 766.490 Radial†	37850.3	32920.5	6566.6 ug/L	6566.6 ppb	02:39:58
1	Mg 279.077 IEC†	276.1	259.9	11235 ug/L	11235 ppb	02:40:18
1	Na 589.592 Radial†	1824.4	2182.8	857.21 ug/L	857.21 ppb	02:39:58
1	Sr 421.552†	12086.9	11337.8	96.447 ug/L	96.447 ppb	02:39:58
1	Sc 361.383	873838.3	873838.3	104.05 %		02:41:16
1	Y 371.029	890382.9	890382.9	124.34 %		02:41:16
1	Ag 328.068†	-6914.3	-6898.8	0.3852 ug/L	0.3852 ppb	02:41:21
1	As 188.979†	-38.4	-16.0	37.869 ug/L	37.869 ppb	02:41:41
1	B 249.677†	740.5	961.9	8.2270 ug/L	8.2270 ppb	02:41:21
1	Ba 233.527†	34057.5	32714.5	310.36 ug/L	310.36 ppb	02:41:21
1	Be 313.107†	4962.6	9032.3	8.9797 ug/L	8.9797 ppb	02:41:21
1	Cd 226.502†	710.0	848.8	0.3922 ug/L	0.3922 ppb	02:41:41
1	Co 228.616†	718.2	729.2	12.580 ug/L	12.580 ppb	02:41:41
1	Cr 267.716†	4876.9	4592.3	71.939 ug/L	71.939 ppb	02:41:41
1	Cu 324.752†	21203.6	14026.3	51.578 ug/L	51.578 ppb	02:41:21
1	Mn 257.610†	1231287.5	1182951.1	1562.7 ug/L	1562.7 ppb	02:41:16
1	Mo 202.031†	-2.6	-16.7	7.3751 ug/L	7.3751 ppb	02:41:41
1	Ni 231.604†	1854.4	1688.6	52.716 ug/L	52.716 ppb	02:41:41
1	P 214.914†	921.5	717.4	431.11 ug/L	431.11 ppb	02:41:41
1	Pb 220.353†	353.2	398.3	57.298 ug/L	57.298 ppb	02:41:41
1	S 181.975 Axial†	149.5	119.3	198.11 ug/L	198.11 ppb	02:41:41
1	Sb 206.836†	42.7	14.4	-4.2504 ug/L	-4.2504 ppb	02:41:41
1	Se 196.026†	-447.9	-413.5	23.982 ug/L	23.982 ppb	02:41:41
1	Si 251.611†	1188722.3	1141968.2	42519 ug/L	42519 ppb	02:41:16
1	Sn 189.927†	-53.2	-54.2	-16.046 ug/L	-16.046 ppb	02:41:41
1	Ti 334.940†	1414005.3	1360098.9	2341.0 ug/L	2341.0 ppb	02:41:16
1	Tl 190.801†	-120.7	-91.0	-8.6593 ug/L	-8.6593 ppb	02:41:41
1	U 409.014†	-13515.0	-10954.3	-335.20 ug/L	-335.20 ppb	02:41:16
1	V 292.402†	15330.8	16162.2	105.39 ug/L	105.39 ppb	02:41:21
1	Zn 213.857†	39506.0	37363.2	426.74 ug/L	426.74 ppb	02:41:21
1	SiO2†	1183139.5	1136574.7	90807 ug/L	90807 ppb	02:42:50
2	Sc Radial	4415.3	4415.3	109 %		02:40:23
2	Y RADIAL	5765.6	5765.6	127.6 %		02:40:23
2	Al 396.153Radial†	60150.3	55033.0	58652 ug/L	58652 ppb	02:40:23
2	Ca 317.933Radial†	7176.9	6539.6	13287 ug/L	13287 ppb	02:40:23
2	Fe 238.204 Radial†	9785.9	8931.4	111680 ug/L	111680 ppb	02:40:23
2	K 766.490 Radial†	38792.8	32637.8	6510.2 ug/L	6510.2 ppb	02:40:23
2	Mg 279.077 IEC†	271.6	247.5	10693 ug/L	10693 ppb	02:40:44
2	Na 589.592 Radial†	1846.7	2148.0	843.57 ug/L	843.57 ppb	02:40:23
2	Sr 421.552†	12486.5	11337.7	96.447 ug/L	96.447 ppb	02:40:23
2	Sc 361.383	869201.5	869201.5	103.49 %		02:41:47
2	Y 371.029	885385.8	885385.8	123.64 %		02:41:47
2	Ag 328.068†	-6960.0	-6978.4	-0.0482 ug/L	-0.0482 ppb	02:41:52
2	As 188.979†	-39.1	-17.0	37.389 ug/L	37.389 ppb	02:42:12
2	B 249.677†	766.9	991.2	9.0538 ug/L	9.0538 ppb	02:41:52
2	Ba 233.527†	34524.5	33340.3	316.22 ug/L	316.22 ppb	02:41:52
2	Be 313.107†	5078.5	9169.7	9.0450 ug/L	9.0450 ppb	02:41:52
2	Cd 226.502†	710.9	853.3	0.4688 ug/L	0.4688 ppb	02:42:12
2	Co 228.616†	722.6	737.1	12.779 ug/L	12.779 ppb	02:42:12
2	Cr 267.716†	4840.8	4582.4	71.799 ug/L	71.799 ppb	02:42:12
2	Cu 324.752†	21416.6	14340.8	52.592 ug/L	52.592 ppb	02:41:52
2	Mn 257.610†	1227984.9	1186073.1	1566.8 ug/L	1566.8 ppb	02:41:47
2	Mo 202.031†	-15.1	-28.7	6.3015 ug/L	6.3015 ppb	02:42:12
2	Ni 231.604†	1839.7	1684.0	52.571 ug/L	52.571 ppb	02:42:12

2	P 214.914†	934.2	734.5	443.24 ug/L	443.24 ppb	02:42:12
2	Pb 220.353†	368.5	414.8	59.784 ug/L	59.784 ppb	02:42:12
2	S 181.975 Axial†	166.4	136.4	228.06 ug/L	228.06 ppb	02:42:12
2	Sb 206.836†	49.9	21.5	-1.2569 ug/L	-1.2569 ppb	02:42:12
2	Se 196.026†	-441.9	-410.1	26.276 ug/L	26.276 ppb	02:42:12
2	Si 251.611†	1184643.2	1144121.7	42599 ug/L	42599 ppb	02:41:47
2	Sn 189.927†	-53.5	-54.8	-16.178 ug/L	-16.178 ppb	02:42:12
2	Ti 334.940†	1409022.0	1362533.8	2345.3 ug/L	2345.3 ppb	02:41:47
2	Tl 190.801†	-129.2	-99.8	-12.020 ug/L	-12.020 ppb	02:42:12
2	U 409.014†	-13545.2	-11052.8	-338.09 ug/L	-338.09 ppb	02:41:47
2	V 292.402†	15466.2	16371.6	106.99 ug/L	106.99 ppb	02:41:52
2	Zn 213.857†	39874.3	37921.6	433.39 ug/L	433.39 ppb	02:41:52
2	SiO2†	1193668.5	1152814.4	92104 ug/L	92104 ppb	02:42:56
3	Sc Radial	4272.1	4272.1	106 %		02:40:49
3	Y RADIAL	5582.0	5582.0	123.5 %		02:40:49
3	Al 396.153Radial†	58621.4	55431.4	59077 ug/L	59077 ppb	02:40:49
3	Ca 317.933Radial†	7008.0	6599.9	13409 ug/L	13409 ppb	02:40:49
3	Fe 238.204 Radial†	9524.5	8984.2	112340 ug/L	112340 ppb	02:40:49
3	K 766.490 Radial†	37982.9	33061.1	6594.7 ug/L	6594.7 ppb	02:40:49
3	Mg 279.077 IEC†	268.5	252.8	10925 ug/L	10925 ppb	02:41:09
3	Na 589.592 Radial†	1756.7	2119.6	832.41 ug/L	832.41 ppb	02:40:49
3	Sr 421.552†	12142.3	11395.0	96.935 ug/L	96.935 ppb	02:40:49
3	Sc 361.383	883295.6	883295.6	105.17 %		02:42:18
3	Y 371.029	901305.1	901305.1	125.87 %		02:42:18
3	Ag 328.068†	-7013.4	-6921.9	0.4280 ug/L	0.4280 ppb	02:42:23
3	As 188.979†	-32.0	-9.6	41.430 ug/L	41.430 ppb	02:42:43
3	B 249.677†	782.6	994.3	9.0317 ug/L	9.0317 ppb	02:42:23
3	Ba 233.527†	34482.6	32768.3	310.88 ug/L	310.88 ppb	02:42:23
3	Be 313.107†	5089.8	9102.2	8.9992 ug/L	8.9992 ppb	02:42:23
3	Cd 226.502†	721.1	852.1	0.3843 ug/L	0.3843 ppb	02:42:43
3	Co 228.616†	719.7	723.2	12.423 ug/L	12.423 ppb	02:42:43
3	Cr 267.716†	4889.8	4554.4	71.500 ug/L	71.500 ppb	02:42:43
3	Cu 324.752†	21400.6	13995.3	51.503 ug/L	51.503 ppb	02:42:23
3	Mn 257.610†	1238080.3	1176739.5	1554.6 ug/L	1554.6 ppb	02:42:18
3	Mo 202.031†	-14.1	-27.6	6.4566 ug/L	6.4566 ppb	02:42:43
3	Ni 231.604†	1849.7	1665.1	51.983 ug/L	51.983 ppb	02:42:43
3	P 214.914†	918.9	705.5	422.25 ug/L	422.25 ppb	02:42:43
3	Pb 220.353†	372.5	413.0	59.514 ug/L	59.514 ppb	02:42:43
3	S 181.975 Axial†	158.1	125.9	209.64 ug/L	209.64 ppb	02:42:43
3	Sb 206.836†	46.1	17.2	-3.0873 ug/L	-3.0873 ppb	02:42:43
3	Se 196.026†	-465.5	-425.6	15.993 ug/L	15.993 ppb	02:42:43
3	Si 251.611†	1197680.8	1138253.8	42381 ug/L	42381 ppb	02:42:18
3	Sn 189.927†	-47.8	-48.6	-14.821 ug/L	-14.821 ppb	02:42:43
3	Ti 334.940†	1426910.6	1357818.9	2337.2 ug/L	2337.2 ppb	02:42:18
3	Tl 190.801†	-102.9	-72.8	-1.7000 ug/L	-1.7000 ppb	02:42:43
3	U 409.014†	-13514.6	-10814.8	-331.16 ug/L	-331.16 ppb	02:42:18
3	V 292.402†	15532.3	16196.0	105.56 ug/L	105.56 ppb	02:42:23
3	Zn 213.857†	39943.2	37372.4	426.77 ug/L	426.77 ppb	02:42:23
3	SiO2†	1191302.6	1132161.3	90454 ug/L	90454 ppb	02:43:01

Mean Data: 247907009|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	875445.1	104.24 %	0.855			0.82%
Sc Radial	4320.5	107 %	2.0			1.90%
Y 371.029	892357.9	124.62 %	1.137			0.91%
Y RADIAL	5632.1	124.7 %	2.59			2.07%
Ag 328.068†	-6933.0	0.2550 ug/L	0.26345	0.2550 ppb	0.26345	103.33%
Al 396.153Radial†	55205.6	58836 ug/L	217.9	58836 ppb	217.9	0.37%
As 188.979†	-14.2	38.896 ug/L	2.2075	38.896 ppb	2.2075	5.68%
B 249.677†	982.5	8.7708 ug/L	0.47109	8.7708 ppb	0.47109	5.37%
Ba 233.527†	32941.0	312.49 ug/L	3.247	312.49 ppb	3.247	1.04%
Be 313.107†	9101.4	9.0079 ug/L	0.03353	9.0079 ppb	0.03353	0.37%
Ca 317.933Radial†	6578.3	13366 ug/L	68.3	13366 ppb	68.3	0.51%
Cd 226.502†	851.4	0.4151 ug/L	0.04668	0.4151 ppb	0.04668	11.25%
Co 228.616†	729.9	12.594 ug/L	0.1783	12.594 ppb	0.1783	1.42%
Cr 267.716†	4576.4	71.746 ug/L	0.2246	71.746 ppb	0.2246	0.31%
Cu 324.752†	14120.8	51.891 ug/L	0.6083	51.891 ppb	0.6083	1.17%
Fe 238.204 Radial†	8952.7	111950 ug/L	348.5	111950 ppb	348.5	0.31%
K 766.490 Radial†	32873.2	6557.1 ug/L	43.02	6557.1 ppb	43.02	0.66%

Mg 279.077 IEC†	253.4	10951 ug/L	271.9	10951 ppb	271.9	2.48%
Mn 257.610†	1181921.2	1561.3 ug/L	6.20	1561.3 ppb	6.20	0.40%
Mo 202.031†	-24.3	6.7111 ug/L	0.58030	6.7111 ppb	0.58030	8.65%
Na 589.592 Radial†	2150.2	844.40 ug/L	12.420	844.40 ppb	12.420	1.47%
Ni 231.604†	1679.2	52.423 ug/L	0.3885	52.423 ppb	0.3885	0.74%
P 214.914†	719.1	432.20 ug/L	10.535	432.20 ppb	10.535	2.44%
Pb 220.353†	408.7	58.865 ug/L	1.3643	58.865 ppb	1.3643	2.32%
S 181.975 Axial†	127.2	211.94 ug/L	15.105	211.94 ppb	15.105	7.13%
Sb 206.836†	17.7	-2.8649 ug/L	1.50911	-2.8649 ppb	1.50911	52.68%
Se 196.026†	-416.4	22.084 ug/L	5.3976	22.084 ppb	5.3976	24.44%
Si 251.611†	1141447.9	42500 ug/L	110.5	42500 ppb	110.5	0.26%
Sn 189.927†	-52.5	-15.681 ug/L	0.7483	-15.681 ppb	0.7483	4.77%
Sr 421.552†	11356.8	96.610 ug/L	0.2815	96.610 ppb	0.2815	0.29%
Ti 334.940†	1360150.5	2341.2 ug/L	4.06	2341.2 ppb	4.06	0.17%
Tl 190.801†	-87.9	-7.4597 ug/L	5.26345	-7.4597 ppb	5.26345	70.56%
U 409.014†	-10940.6	-334.82 ug/L	3.480	-334.82 ppb	3.480	1.04%
V 292.402†	16243.2	105.98 ug/L	0.876	105.98 ppb	0.876	0.83%
Zn 213.857†	37552.4	428.97 ug/L	3.831	428.97 ppb	3.831	0.89%
SiO2†	1140516.8	91122 ug/L	869.0	91122 ppb	869.0	0.95%

Sequence No.: 88

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/26/2010 02:45:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4032.2	4032.2	100.0 %		02:47:26
1	Y RADIAL	4473.2	4473.2	99.01 %		02:47:06
1	Al 396.153Radial†	4511.5	4593.0	4870.4 ug/L	4870.4 ppb	02:47:06
1	Ca 317.933Radial†	2517.6	2501.5	5082.4 ug/L	5082.4 ppb	02:47:26
1	Fe 238.204 Radial†	420.0	411.1	5157.0 ug/L	5157.0 ppb	02:47:26
1	K 766.490 Radial†	27111.8	24319.8	4848.6 ug/L	4848.6 ppb	02:47:06
1	Mg 279.077 IEC†	121.4	120.8	5275.1 ug/L	5275.1 ppb	02:47:26
1	Na 589.592 Radial†	24921.8	25393.0	9972.2 ug/L	9972.2 ppb	02:47:06
1	Sr 421.552†	56414.6	56368.0	479.97 ug/L	479.97 ppb	02:47:06
1	Sc 361.383	837676.0	837676.0	99.740 %		02:48:23
1	Y 371.029	705673.3	705673.3	98.547 %		02:48:23
1	Ag 328.068†	103801.3	103817.9	526.56 ug/L	526.56 ppb	02:48:28
1	As 188.979†	908.6	931.8	503.95 ug/L	503.95 ppb	02:48:48
1	B 249.677†	18034.0	18331.0	501.53 ug/L	501.53 ppb	02:48:28
1	Ba 233.527†	54412.9	54536.0	512.53 ug/L	512.53 ppb	02:48:28
1	Be 313.107†	1222165.0	1229607.5	500.39 ug/L	500.39 ppb	02:48:23
1	Cd 226.502†	36648.1	36909.8	520.47 ug/L	520.47 ppb	02:48:28
1	Co 228.616†	20256.1	20347.7	529.65 ug/L	529.65 ppb	02:48:28
1	Cr 267.716†	39239.1	39246.2	512.01 ug/L	512.01 ppb	02:48:28
1	Cu 324.752†	164424.6	158499.6	513.92 ug/L	513.92 ppb	02:48:28
1	Mn 257.610†	384894.9	385443.8	506.01 ug/L	506.01 ppb	02:48:23
1	Mo 202.031†	5789.1	5790.0	509.49 ug/L	509.49 ppb	02:48:48
1	Ni 231.604†	16797.5	16747.6	522.62 ug/L	522.62 ppb	02:48:28
1	P 214.914†	3711.8	3553.2	2453.7 ug/L	2453.7 ppb	02:48:48
1	Pb 220.353†	3285.6	3353.0	506.90 ug/L	506.90 ppb	02:48:48
1	S 181.975 Axial†	602.1	579.3	1014.4 ug/L	1014.4 ppb	02:48:48
1	Sb 206.836†	1233.1	1209.7	532.28 ug/L	532.28 ppb	02:48:48
1	Se 196.026†	630.0	648.6	535.57 ug/L	535.57 ppb	02:48:48
1	Si 251.611†	70323.3	69980.8	2599.3 ug/L	2599.3 ppb	02:48:28
1	Sn 189.927†	2293.6	2296.5	509.24 ug/L	509.24 ppb	02:48:48
1	Ti 334.940†	296911.3	298767.1	513.86 ug/L	513.86 ppb	02:48:28
1	Tl 190.801†	1256.1	1284.4	499.99 ug/L	499.99 ppb	02:48:48
1	U 409.014†	16132.6	18209.8	534.08 ug/L	534.08 ppb	02:48:28
1	V 292.402†	65081.0	66677.8	520.85 ug/L	520.85 ppb	02:48:28
1	Zn 213.857†	43932.7	43440.6	511.27 ug/L	511.27 ppb	02:48:28
1	SiO2†	70310.8	69940.4	5574.0 ug/L	5574.0 ppb	02:49:56
2	Sc Radial	3987.7	3987.7	98.9 %		02:47:51
2	Y RADIAL	4438.5	4438.5	98.24 %		02:47:31
2	Al 396.153Radial†	4522.6	4654.6	4936.1 ug/L	4936.1 ppb	02:47:31
2	Ca 317.933Radial†	2501.6	2513.3	5106.5 ug/L	5106.5 ppb	02:47:51
2	Fe 238.204 Radial†	415.4	411.2	5156.9 ug/L	5156.9 ppb	02:47:51
2	K 766.490 Radial†	27395.2	24909.1	4966.2 ug/L	4966.2 ppb	02:47:31
2	Mg 279.077 IEC†	117.6	118.2	5165.6 ug/L	5165.6 ppb	02:47:51
2	Na 589.592 Radial†	24996.7	25747.0	10111 ug/L	10111 ppb	02:47:31
2	Sr 421.552†	56711.7	57298.3	487.89 ug/L	487.89 ppb	02:47:31
2	Sc 361.383	842024.2	842024.2	100.26 %		02:48:54
2	Y 371.029	708980.1	708980.1	99.009 %		02:48:54
2	Ag 328.068†	102235.0	101718.2	515.94 ug/L	515.94 ppb	02:48:59
2	As 188.979†	904.4	922.9	499.10 ug/L	499.10 ppb	02:49:20
2	B 249.677†	17646.4	17851.1	488.37 ug/L	488.37 ppb	02:48:59
2	Ba 233.527†	53860.7	53703.5	504.71 ug/L	504.71 ppb	02:48:59
2	Be 313.107†	1227206.6	1228308.4	499.84 ug/L	499.84 ppb	02:48:54
2	Cd 226.502†	36149.5	36222.8	510.78 ug/L	510.78 ppb	02:48:59
2	Co 228.616†	19918.4	19906.0	518.17 ug/L	518.17 ppb	02:48:59
2	Cr 267.716†	38875.0	38679.9	504.63 ug/L	504.63 ppb	02:48:59
2	Cu 324.752†	161475.6	154706.9	501.62 ug/L	501.62 ppb	02:48:59
2	Mn 257.610†	387250.9	385801.0	506.49 ug/L	506.49 ppb	02:48:54
2	Mo 202.031†	5788.1	5759.0	506.77 ug/L	506.77 ppb	02:49:20
2	Ni 231.604†	16576.1	16439.8	513.02 ug/L	513.02 ppb	02:48:59

2	P 214.914†	3696.5	3518.8	2431.4 ug/L	2431.4 ppb	02:49:20
2	Pb 220.353†	3277.3	3327.6	503.09 ug/L	503.09 ppb	02:49:20
2	S 181.975 Axial†	609.1	583.1	1021.1 ug/L	1021.1 ppb	02:49:20
2	Sb 206.836†	1265.4	1235.5	543.17 ug/L	543.17 ppb	02:49:20
2	Se 196.026†	625.2	640.6	529.18 ug/L	529.18 ppb	02:49:20
2	Si 251.611†	69248.7	68544.9	2545.9 ug/L	2545.9 ppb	02:48:59
2	Sn 189.927†	2297.6	2288.5	507.48 ug/L	507.48 ppb	02:49:20
2	Ti 334.940†	292607.2	292936.8	503.85 ug/L	503.85 ppb	02:48:59
2	Tl 190.801†	1269.1	1290.9	502.51 ug/L	502.51 ppb	02:49:20
2	U 409.014†	15987.2	17981.2	527.37 ug/L	527.37 ppb	02:48:59
2	V 292.402†	64196.7	65458.9	511.41 ug/L	511.41 ppb	02:48:59
2	Zn 213.857†	43363.5	42645.3	501.90 ug/L	501.90 ppb	02:48:59
2	SiO2†	69344.9	68612.9	5468.0 ug/L	5468.0 ppb	02:50:01
3	Sc Radial	3983.7	3983.7	98.8 %		02:48:16
3	Y RADIAL	4438.6	4438.6	98.24 %		02:47:56
3	Al 396.153Radial†	4481.5	4617.6	4896.5 ug/L	4896.5 ppb	02:47:56
3	Ca 317.933Radial†	2504.1	2518.5	5116.9 ug/L	5116.9 ppb	02:48:16
3	Fe 238.204 Radial†	413.6	409.8	5140.0 ug/L	5140.0 ppb	02:48:16
3	K 766.490 Radial†	27159.1	24697.9	4924.1 ug/L	4924.1 ppb	02:47:56
3	Mg 279.077 IEC†	122.3	123.1	5378.1 ug/L	5378.1 ppb	02:48:16
3	Na 589.592 Radial†	24849.3	25623.1	10063 ug/L	10063 ppb	02:47:56
3	Sr 421.552†	56433.2	57073.9	485.98 ug/L	485.98 ppb	02:47:56
3	Sc 361.383	840419.0	840419.0	100.07 %		02:49:25
3	Y 371.029	707934.7	707934.7	98.863 %		02:49:25
3	Ag 328.068†	102140.9	101819.0	516.45 ug/L	516.45 ppb	02:49:30
3	As 188.979†	924.6	944.8	510.83 ug/L	510.83 ppb	02:49:51
3	B 249.677†	17691.0	17929.2	490.52 ug/L	490.52 ppb	02:49:30
3	Ba 233.527†	53643.0	53588.5	503.63 ug/L	503.63 ppb	02:49:30
3	Be 313.107†	1224401.3	1227842.8	499.65 ug/L	499.65 ppb	02:49:25
3	Cd 226.502†	35903.9	36046.3	508.29 ug/L	508.29 ppb	02:49:30
3	Co 228.616†	19908.2	19933.8	518.90 ug/L	518.90 ppb	02:49:30
3	Cr 267.716†	38754.9	38633.9	504.03 ug/L	504.03 ppb	02:49:30
3	Cu 324.752†	161727.6	155266.3	503.44 ug/L	503.44 ppb	02:49:30
3	Mn 257.610†	385547.9	384836.9	505.21 ug/L	505.21 ppb	02:49:25
3	Mo 202.031†	5825.6	5807.5	511.03 ug/L	511.03 ppb	02:49:51
3	Ni 231.604†	16515.8	16411.1	512.12 ug/L	512.12 ppb	02:49:30
3	P 214.914†	3718.5	3547.8	2451.9 ug/L	2451.9 ppb	02:49:51
3	Pb 220.353†	3286.9	3343.6	505.49 ug/L	505.49 ppb	02:49:51
3	S 181.975 Axial†	607.5	582.7	1020.4 ug/L	1020.4 ppb	02:49:51
3	Sb 206.836†	1276.3	1248.8	548.90 ug/L	548.90 ppb	02:49:51
3	Se 196.026†	627.2	643.7	531.64 ug/L	531.64 ppb	02:49:51
3	Si 251.611†	69095.7	68523.9	2545.1 ug/L	2545.1 ppb	02:49:30
3	Sn 189.927†	2284.7	2280.0	505.60 ug/L	505.60 ppb	02:49:51
3	Ti 334.940†	291898.0	292785.5	503.58 ug/L	503.58 ppb	02:49:30
3	Tl 190.801†	1261.8	1286.1	500.61 ug/L	500.61 ppb	02:49:51
3	U 409.014†	15726.2	17750.8	520.60 ug/L	520.60 ppb	02:49:30
3	V 292.402†	63944.3	65329.0	510.47 ug/L	510.47 ppb	02:49:30
3	Zn 213.857†	43275.2	42639.7	501.84 ug/L	501.84 ppb	02:49:30
3	SiO2†	68332.3	67733.1	5397.6 ug/L	5397.6 ppb	02:50:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840039.7	100.02 %	0.262			0.26%
Sc Radial	4001.2	99.2 %	0.67			0.67%
Y 371.029	707529.4	98.807 %	0.2360			0.24%
Y RADIAL	4450.1	98.50 %	0.443			0.45%
Ag 328.068†	102451.7	519.65 ug/L	5.990	519.65 ppb	5.990	1.15%
QC value within limits for Ag 328.068 Recovery = 103.93%						
Al 396.153Radial†	4621.7	4901.0 ug/L	33.10	4901.0 ppb	33.10	0.68%
QC value within limits for Al 396.153Radial Recovery = 98.02%						
As 188.979†	933.1	504.62 ug/L	5.894	504.62 ppb	5.894	1.17%
QC value within limits for As 188.979 Recovery = 100.92%						
B 249.677†	18037.1	493.47 ug/L	7.060	493.47 ppb	7.060	1.43%
QC value within limits for B 249.677 Recovery = 98.69%						
Ba 233.527†	53942.7	506.96 ug/L	4.860	506.96 ppb	4.860	0.96%
QC value within limits for Ba 233.527 Recovery = 101.39%						
Be 313.107†	1228586.2	499.96 ug/L	0.384	499.96 ppb	0.384	0.08%
QC value within limits for Be 313.107 Recovery = 99.99%						
Ca 317.933Radial†	2511.1	5101.9 ug/L	17.72	5101.9 ppb	17.72	0.35%

QC value within limits for Ca 317.933 Radial Recovery = 102.04%

Cd 226.502†	36393.0	513.18 ug/L	6.439	513.18 ppb	6.439	1.25%
QC value within limits for Cd 226.502 Recovery = 102.64%						
Co 228.616†	20062.5	522.24 ug/L	6.427	522.24 ppb	6.427	1.23%
QC value within limits for Co 228.616 Recovery = 104.45%						
Cr 267.716†	38853.4	506.89 ug/L	4.446	506.89 ppb	4.446	0.88%
QC value within limits for Cr 267.716 Recovery = 101.38%						
Cu 324.752†	156157.6	506.33 ug/L	6.636	506.33 ppb	6.636	1.31%
QC value within limits for Cu 324.752 Recovery = 101.27%						
Fe 238.204 Radial†	410.7	5151.3 ug/L	9.76	5151.3 ppb	9.76	0.19%
QC value within limits for Fe 238.204 Radial Recovery = 103.03%						
K 766.490 Radial†	24642.3	4913.0 ug/L	59.57	4913.0 ppb	59.57	1.21%
QC value within limits for K 766.490 Radial Recovery = 98.26%						
Mg 279.077 IEC†	120.7	5272.9 ug/L	106.31	5272.9 ppb	106.31	2.02%
QC value within limits for Mg 279.077 IEC Recovery = 105.46%						
Mn 257.610†	385360.6	505.90 ug/L	0.645	505.90 ppb	0.645	0.13%
QC value within limits for Mn 257.610 Recovery = 101.18%						
Mo 202.031†	5785.5	509.10 ug/L	2.157	509.10 ppb	2.157	0.42%
QC value within limits for Mo 202.031 Recovery = 101.82%						
Na 589.592 Radial†	25587.7	10049 ug/L	70.5	10049 ppb	70.5	0.70%
QC value within limits for Na 589.592 Radial Recovery = 100.49%						
Ni 231.604†	16532.8	515.92 ug/L	5.821	515.92 ppb	5.821	1.13%
QC value within limits for Ni 231.604 Recovery = 103.18%						
P 214.914†	3539.9	2445.7 ug/L	12.39	2445.7 ppb	12.39	0.51%
QC value within limits for P 214.914 Recovery = 97.83%						
Pb 220.353†	3341.4	505.16 ug/L	1.924	505.16 ppb	1.924	0.38%
QC value within limits for Pb 220.353 Recovery = 101.03%						
S 181.975 Axial†	581.7	1018.7 ug/L	3.68	1018.7 ppb	3.68	0.36%
QC value within limits for S 181.975 Axial Recovery = 101.87%						
Sb 206.836†	1231.3	541.45 ug/L	8.438	541.45 ppb	8.438	1.56%
QC value within limits for Sb 206.836 Recovery = 108.29%						
Se 196.026†	644.3	532.13 ug/L	3.222	532.13 ppb	3.222	0.61%
QC value within limits for Se 196.026 Recovery = 106.43%						
Si 251.611†	69016.5	2563.4 ug/L	31.09	2563.4 ppb	31.09	1.21%
QC value within limits for Si 251.611 Recovery = 102.54%						
Sn 189.927†	2288.4	507.44 ug/L	1.821	507.44 ppb	1.821	0.36%
QC value within limits for Sn 189.927 Recovery = 101.49%						
Sr 421.552†	56913.4	484.61 ug/L	4.134	484.61 ppb	4.134	0.85%
QC value within limits for Sr 421.552 Recovery = 96.92%						
Ti 334.940†	294829.8	507.10 ug/L	5.862	507.10 ppb	5.862	1.16%
QC value within limits for Ti 334.940 Recovery = 101.42%						
Tl 190.801†	1287.1	501.04 ug/L	1.313	501.04 ppb	1.313	0.26%
QC value within limits for Tl 190.801 Recovery = 100.21%						
U 409.014†	17980.6	527.35 ug/L	6.742	527.35 ppb	6.742	1.28%
QC value within limits for U 409.014 Recovery = 105.47%						
V 292.402†	65821.9	514.24 ug/L	5.741	514.24 ppb	5.741	1.12%
QC value within limits for V 292.402 Recovery = 102.85%						
Zn 213.857†	42908.5	505.00 ug/L	5.427	505.00 ppb	5.427	1.07%
QC value within limits for Zn 213.857 Recovery = 101.00%						
SiO2†	68762.1	5479.9 ug/L	88.79	5479.9 ppb	88.79	1.62%
QC value within limits for SiO2 Recovery = 102.48%						

All analyte(s) passed QC.

Sequence No.: 89

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/26/2010 02:52:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4090.0	4090.0	101 %		02:54:09
1	Y RADIAL	4390.3	4390.3	97.17 %		02:54:09
1	Al 396.153Radial†	-78.8	1.9	1.9982 ug/L	1.9982 ppb	02:54:29
1	Ca 317.933Radial†	26.5	8.9	18.165 ug/L	18.165 ppb	02:54:29
1	Fe 238.204 Radial†	7.9	-1.2	-14.595 ug/L	-14.595 ppb	02:54:29
1	K 766.490 Radial†	2426.9	-409.7	-81.800 ug/L	-81.800 ppb	02:54:09
1	Mg 279.077 IEC†	2.0	1.2	53.714 ug/L	53.714 ppb	02:54:29
1	Na 589.592 Radial†	-380.0	86.1	33.796 ug/L	33.796 ppb	02:54:09
1	Sr 421.552†	33.5	-36.9	-0.3148 ug/L	-0.3148 ppb	02:54:09
1	Sc 361.383	825630.5	825630.5	98.306 %		02:55:26
1	Y 371.029	702831.8	702831.8	98.151 %		02:55:26
1	Ag 328.068†	198.7	-51.3	-0.2655 ug/L	-0.2655 ppb	02:55:26
1	As 188.979†	-16.7	3.9	2.0753 ug/L	2.0753 ppb	02:55:46
1	B 249.677†	-329.7	-85.3	-2.3402 ug/L	-2.3402 ppb	02:55:46
1	Ba 233.527†	15.7	-2.6	-0.0250 ug/L	-0.0250 ppb	02:55:46
1	Be 313.107†	-4521.1	-336.2	-0.1363 ug/L	-0.1363 ppb	02:55:26
1	Cd 226.502†	-176.6	-13.2	-0.1847 ug/L	-0.1847 ppb	02:55:46
1	Co 228.616†	-50.6	-12.5	-0.3240 ug/L	-0.3240 ppb	02:55:46
1	Cr 267.716†	98.5	5.3	0.0662 ug/L	0.0662 ppb	02:55:46
1	Cu 324.752†	6611.1	372.2	1.2055 ug/L	1.2055 ppb	02:55:26
1	Mn 257.610†	872.7	435.4	0.5676 ug/L	0.5676 ppb	02:55:46
1	Mo 202.031†	24.1	10.3	0.9046 ug/L	0.9046 ppb	02:55:46
1	Ni 231.604†	82.4	-9.8	-0.3044 ug/L	-0.3044 ppb	02:55:46
1	P 214.914†	184.9	19.8	14.044 ug/L	14.044 ppb	02:55:46
1	Pb 220.353†	-43.9	14.2	2.1455 ug/L	2.1455 ppb	02:55:46
1	S 181.975 Axial†	32.8	9.0	15.726 ug/L	15.726 ppb	02:55:46
1	Sb 206.836†	34.7	8.7	3.7255 ug/L	3.7255 ppb	02:55:46
1	Se 196.026†	-15.9	0.8	0.5862 ug/L	0.5862 ppb	02:55:46
1	Si 251.611†	650.3	136.1	5.0557 ug/L	5.0557 ppb	02:55:46
1	Sn 189.927†	9.2	6.3	1.3891 ug/L	1.3891 ppb	02:55:46
1	Ti 334.940†	-1017.7	48.1	0.0802 ug/L	0.0802 ppb	02:55:26
1	Tl 190.801†	-29.0	-4.5	-1.7179 ug/L	-1.7179 ppb	02:55:46
1	U 409.014†	-1954.1	47.4	1.3951 ug/L	1.3951 ppb	02:55:26
1	V 292.402†	-1428.9	-26.0	-0.1819 ug/L	-0.1819 ppb	02:55:26
1	Zn 213.857†	768.4	175.2	2.0840 ug/L	2.0840 ppb	02:55:46
1	SiO2†	623.4	80.7	6.4255 ug/L	6.4255 ppb	02:56:42
2	Sc Radial	3962.5	3962.5	98.2 %		02:54:34
2	Y RADIAL	4263.7	4263.7	94.37 %		02:54:34
2	Al 396.153Radial†	-68.3	10.1	10.707 ug/L	10.707 ppb	02:54:54
2	Ca 317.933Radial†	22.9	6.1	12.365 ug/L	12.365 ppb	02:54:54
2	Fe 238.204 Radial†	10.2	1.4	17.481 ug/L	17.481 ppb	02:54:54
2	K 766.490 Radial†	2403.3	-356.7	-71.218 ug/L	-71.218 ppb	02:54:34
2	Mg 279.077 IEC†	0.1	-0.6	-25.046 ug/L	-25.046 ppb	02:54:54
2	Na 589.592 Radial†	-474.9	-22.6	-8.8795 ug/L	-8.8795 ppb	02:54:34
2	Sr 421.552†	27.6	-41.9	-0.3568 ug/L	-0.3568 ppb	02:54:34
2	Sc 361.383	831618.9	831618.9	99.019 %		02:55:51
2	Y 371.029	707401.0	707401.0	98.789 %		02:55:51
2	Ag 328.068†	163.3	-88.5	-0.4431 ug/L	-0.4431 ppb	02:55:51
2	As 188.979†	-18.3	2.4	1.2843 ug/L	1.2843 ppb	02:56:11
2	B 249.677†	-328.8	-81.9	-2.2546 ug/L	-2.2546 ppb	02:56:11
2	Ba 233.527†	4.2	-14.3	-0.1315 ug/L	-0.1315 ppb	02:56:11
2	Be 313.107†	-4675.1	-458.7	-0.1860 ug/L	-0.1860 ppb	02:55:51
2	Cd 226.502†	-164.8	-0.1	-0.0018 ug/L	-0.0018 ppb	02:56:11
2	Co 228.616†	-45.2	-6.7	-0.1738 ug/L	-0.1738 ppb	02:56:11
2	Cr 267.716†	99.1	5.1	0.0668 ug/L	0.0668 ppb	02:56:11
2	Cu 324.752†	6656.5	369.7	1.1956 ug/L	1.1956 ppb	02:55:51
2	Mn 257.610†	799.7	355.2	0.4687 ug/L	0.4687 ppb	02:56:11
2	Mo 202.031†	19.6	5.7	0.4986 ug/L	0.4986 ppb	02:56:11
2	Ni 231.604†	71.5	-21.4	-0.6692 ug/L	-0.6692 ppb	02:56:11

2	P 214.914†	208.6	42.4	30.261 ug/L	30.261 ppb	02:56:11
2	Pb 220.353†	-49.1	9.2	1.3887 ug/L	1.3887 ppb	02:56:11
2	S 181.975 Axial†	28.6	4.5	7.8852 ug/L	7.8852 ppb	02:56:11
2	Sb 206.836†	23.4	-3.0	-1.2379 ug/L	-1.2379 ppb	02:56:11
2	Se 196.026†	-17.8	-1.0	-0.7244 ug/L	-0.7244 ppb	02:56:11
2	Si 251.611†	664.4	145.5	5.4121 ug/L	5.4121 ppb	02:56:11
2	Sn 189.927†	12.5	9.5	2.1119 ug/L	2.1119 ppb	02:56:11
2	Ti 334.940†	-1000.0	73.4	0.1269 ug/L	0.1269 ppb	02:55:51
2	Tl 190.801†	-25.6	-0.8	-0.3093 ug/L	-0.3093 ppb	02:56:11
2	U 409.014†	-1774.1	243.5	7.1625 ug/L	7.1625 ppb	02:55:51
2	V 292.402†	-1298.3	116.4	0.9149 ug/L	0.9149 ppb	02:55:51
2	Zn 213.857†	767.0	168.2	1.9981 ug/L	1.9981 ppb	02:56:11
2	SiO2†	680.9	134.2	10.711 ug/L	10.711 ppb	02:56:47
3	Sc Radial	3998.2	3998.2	99.1 %		02:54:59
3	Y RADIAL	4332.3	4332.3	95.89 %		02:54:59
3	Al 396.153Radial†	-74.8	4.2	4.3979 ug/L	4.3979 ppb	02:55:19
3	Ca 317.933Radial†	25.2	8.2	16.746 ug/L	16.746 ppb	02:55:19
3	Fe 238.204 Radial†	11.7	2.8	34.991 ug/L	34.991 ppb	02:55:19
3	K 766.490 Radial†	2409.8	-372.0	-74.273 ug/L	-74.273 ppb	02:54:59
3	Mg 279.077 IEC†	2.9	2.2	96.746 ug/L	96.746 ppb	02:55:19
3	Na 589.592 Radial†	-396.2	61.2	24.030 ug/L	24.030 ppb	02:54:59
3	Sr 421.552†	32.1	-37.6	-0.3207 ug/L	-0.3207 ppb	02:54:59
3	Sc 361.383	819278.4	819278.4	97.550 %		02:56:16
3	Y 371.029	699251.0	699251.0	97.651 %		02:56:16
3	Ag 328.068†	164.6	-84.7	-0.4181 ug/L	-0.4181 ppb	02:56:16
3	As 188.979†	-21.7	-1.4	-0.7570 ug/L	-0.7570 ppb	02:56:36
3	B 249.677†	-351.6	-110.3	-3.0372 ug/L	-3.0372 ppb	02:56:36
3	Ba 233.527†	5.6	-12.8	-0.1170 ug/L	-0.1170 ppb	02:56:36
3	Be 313.107†	-4554.7	-406.4	-0.1647 ug/L	-0.1647 ppb	02:56:16
3	Cd 226.502†	-166.5	-4.3	-0.0630 ug/L	-0.0630 ppb	02:56:36
3	Co 228.616†	-48.2	-10.5	-0.2724 ug/L	-0.2724 ppb	02:56:36
3	Cr 267.716†	93.6	1.0	0.0155 ug/L	0.0155 ppb	02:56:36
3	Cu 324.752†	6647.3	461.5	1.4946 ug/L	1.4946 ppb	02:56:16
3	Mn 257.610†	783.9	351.2	0.4603 ug/L	0.4603 ppb	02:56:36
3	Mo 202.031†	20.0	6.3	0.5567 ug/L	0.5567 ppb	02:56:36
3	Ni 231.604†	63.0	-29.0	-0.9050 ug/L	-0.9050 ppb	02:56:36
3	P 214.914†	186.6	23.1	16.322 ug/L	16.322 ppb	02:56:36
3	Pb 220.353†	-61.0	-3.7	-0.5639 ug/L	-0.5639 ppb	02:56:36
3	S 181.975 Axial†	25.5	1.7	3.0513 ug/L	3.0513 ppb	02:56:36
3	Sb 206.836†	26.4	0.5	0.2618 ug/L	0.2618 ppb	02:56:36
3	Se 196.026†	-15.1	1.4	1.2599 ug/L	1.2599 ppb	02:56:36
3	Si 251.611†	658.1	149.2	5.5475 ug/L	5.5475 ppb	02:56:36
3	Sn 189.927†	16.8	14.2	3.1378 ug/L	3.1378 ppb	02:56:36
3	Ti 334.940†	-988.8	69.7	0.1114 ug/L	0.1114 ppb	02:56:16
3	Tl 190.801†	-38.8	-14.7	-5.6790 ug/L	-5.6790 ppb	02:56:36
3	U 409.014†	-1773.2	217.4	6.3941 ug/L	6.3941 ppb	02:56:16
3	V 292.402†	-1287.2	108.0	0.8490 ug/L	0.8490 ppb	02:56:16
3	Zn 213.857†	765.6	178.4	2.1174 ug/L	2.1174 ppb	02:56:36
3	SiO2†	599.6	61.3	4.8851 ug/L	4.8851 ppb	02:56:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825509.3	98.292 %	0.7348			0.75%
Sc Radial	4016.9	99.6 %	1.63			1.64%
Y 371.029	703161.3	98.197 %	0.5705			0.58%
Y RADIAL	4328.8	95.81 %	1.403			1.46%
Ag 328.068†	-74.8	-0.3756 ug/L	0.09616	-0.3756 ppb	0.09616	25.60%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.4	5.7011 ug/L	4.49850	5.7011 ppb	4.49850	78.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.6	0.8675 ug/L	1.46141	0.8675 ppb	1.46141	168.46%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-92.5	-2.5440 ug/L	0.42926	-2.5440 ppb	0.42926	16.87%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-9.9	-0.0912 ug/L	0.05774	-0.0912 ppb	0.05774	63.34%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-400.5	-0.1623 ug/L	0.02490	-0.1623 ppb	0.02490	15.34%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.8	15.759 ug/L	3.0238	15.759 ppb	3.0238	19.19%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-5.8	-0.0831 ug/L	0.09310	-0.0831 ppb	0.09310 111.97%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-9.9	-0.2567 ug/L	0.07633	-0.2567 ppb	0.07633 29.73%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	3.8	0.0495 ug/L	0.02948	0.0495 ppb	0.02948 59.54%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	401.1	1.2986 ug/L	0.16983	1.2986 ppb	0.16983 13.08%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.0	12.626 ug/L	25.1473	12.626 ppb	25.1473 199.18%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-379.5	-75.764 ug/L	5.4463	-75.764 ppb	5.4463 7.19%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.0	41.805 ug/L	61.7630	41.805 ppb	61.7630 147.74%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	380.6	0.4989 ug/L	0.05966	0.4989 ppb	0.05966 11.96%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	7.4	0.6533 ug/L	0.21959	0.6533 ppb	0.21959 33.61%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	41.5	16.316 ug/L	22.3594	16.316 ppb	22.3594 137.04%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-20.1	-0.6262 ug/L	0.30262	-0.6262 ppb	0.30262 48.33%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	28.5	20.209 ug/L	8.7792	20.209 ppb	8.7792 43.44%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	6.6	0.9901 ug/L	1.39803	0.9901 ppb	1.39803 141.20%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	5.1	8.8873 ug/L	6.39629	8.8873 ppb	6.39629 71.97%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	2.0	0.9165 ug/L	2.54561	0.9165 ppb	2.54561 277.77%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	0.4	0.3739 ug/L	1.00908	0.3739 ppb	1.00908 269.88%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	143.6	5.3384 ug/L	0.25400	5.3384 ppb	0.25400 4.76%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	10.0	2.2129 ug/L	0.87869	2.2129 ppb	0.87869 39.71%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-38.8	-0.3308 ug/L	0.02277	-0.3308 ppb	0.02277 6.88%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	63.8	0.1062 ug/L	0.02377	0.1062 ppb	0.02377 22.39%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-6.7	-2.5687 ug/L	2.78413	-2.5687 ppb	2.78413 108.39%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	169.4	4.9839 ug/L	3.13164	4.9839 ppb	3.13164 62.84%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	66.1	0.5274 ug/L	0.61508	0.5274 ppb	0.61508 116.63%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	173.9	2.0665 ug/L	0.06154	2.0665 ppb	0.06154 2.98%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	92.1	7.3405 ug/L	3.01875	7.3405 ppb	3.01875 41.12%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 90
 Sample ID: 247907010|958057|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 107
 Date Collected: 3/26/2010 02:59:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247907010|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4126.0	4126.0	102 %		03:00:55
1	Y RADIAL	5147.3	5147.3	113.9 %		03:00:55
1	Al 396.153Radial†	47120.4	46147.2	49182 ug/L	49182 ppb	03:00:55
1	Ca 317.933Radial†	8582.3	8373.4	17013 ug/L	17013 ppb	03:00:55
1	Fe 238.204 Radial†	8680.8	8477.8	106010 ug/L	106010 ppb	03:00:55
1	K 766.490 Radial†	42661.6	38905.1	7759.7 ug/L	7759.7 ppb	03:00:55
1	Mg 279.077 IEC†	219.7	214.1	9240.6 ug/L	9240.6 ppb	03:01:15
1	Na 589.592 Radial†	1216.7	1650.4	648.15 ug/L	648.15 ppb	03:00:55
1	Sr 421.552†	13844.0	13464.7	114.53 ug/L	114.53 ppb	03:00:55
1	Sc 361.383	858037.0	858037.0	102.16 %		03:02:13
1	Y 371.029	831170.7	831170.7	116.07 %		03:02:13
1	Ag 328.068†	-5968.0	-6095.0	1.6632 ug/L	1.6632 ppb	03:02:18
1	As 188.979†	-39.4	-17.7	42.424 ug/L	42.424 ppb	03:02:38
1	B 249.677†	817.2	1050.1	11.555 ug/L	11.555 ppb	03:02:18
1	Ba 233.527†	51818.1	50701.5	478.84 ug/L	478.84 ppb	03:02:18
1	Be 313.107†	-7240.3	-2824.2	5.9523 ug/L	5.9523 ppb	03:02:18
1	Cd 226.502†	675.1	827.2	0.9182 ug/L	0.9182 ppb	03:02:38
1	Co 228.616†	1250.5	1262.9	25.003 ug/L	25.003 ppb	03:02:38
1	Cr 267.716†	4043.9	3863.3	61.372 ug/L	61.372 ppb	03:02:38
1	Cu 324.752†	30681.9	23679.0	81.895 ug/L	81.895 ppb	03:02:18
1	Mn 257.610†	2172906.2	2126410.4	2800.0 ug/L	2800.0 ppb	03:02:13
1	Mo 202.031†	56.3	40.9	12.026 ug/L	12.026 ppb	03:02:38
1	Ni 231.604†	1520.3	1394.5	43.524 ug/L	43.524 ppb	03:02:38
1	P 214.914†	1059.4	868.7	535.86 ug/L	535.86 ppb	03:02:38
1	Pb 220.353†	562.7	609.6	87.911 ug/L	87.911 ppb	03:02:38
1	S 181.975 Axial†	273.9	243.8	418.04 ug/L	418.04 ppb	03:02:38
1	Sb 206.836†	63.2	35.3	2.3530 ug/L	2.3530 ppb	03:02:38
1	Se 196.026†	-396.2	-370.8	37.139 ug/L	37.139 ppb	03:02:38
1	Si 251.611†	1170507.7	1145179.5	42639 ug/L	42639 ppb	03:02:13
1	Sn 189.927†	-84.6	-85.8	-22.077 ug/L	-22.077 ppb	03:02:38
1	Ti 334.940†	1855678.0	1817440.0	3128.0 ug/L	3128.0 ppb	03:02:13
1	Tl 190.801†	-139.9	-111.9	-4.3756 ug/L	-4.3756 ppb	03:02:38
1	U 409.014†	29051.2	30470.8	884.39 ug/L	884.39 ppb	03:02:13
1	V 292.402†	17225.8	18288.3	124.16 ug/L	124.16 ppb	03:02:18
1	Zn 213.857†	36487.3	35107.7	400.83 ug/L	400.83 ppb	03:02:18
1	SiO2†	1153677.3	1128677.8	90176 ug/L	90176 ppb	03:03:46
2	Sc Radial	4161.7	4161.7	103 %		03:01:20
2	Y RADIAL	5185.7	5185.7	114.8 %		03:01:20
2	Al 396.153Radial†	47461.7	46083.3	49113 ug/L	49113 ppb	03:01:20
2	Ca 317.933Radial†	8592.4	8311.3	16886 ug/L	16886 ppb	03:01:20
2	Fe 238.204 Radial†	8679.7	8404.0	105090 ug/L	105090 ppb	03:01:20
2	K 766.490 Radial†	42884.8	38764.2	7731.6 ug/L	7731.6 ppb	03:01:20
2	Mg 279.077 IEC†	219.7	212.2	9161.5 ug/L	9161.5 ppb	03:01:40
2	Na 589.592 Radial†	1227.0	1650.2	648.06 ug/L	648.06 ppb	03:01:20
2	Sr 421.552†	13902.9	13405.8	114.03 ug/L	114.03 ppb	03:01:20
2	Sc 361.383	855446.5	855446.5	101.86 %		03:02:44
2	Y 371.029	828867.2	828867.2	115.75 %		03:02:44
2	Ag 328.068†	-6042.2	-6185.5	0.9339 ug/L	0.9339 ppb	03:02:49
2	As 188.979†	-51.9	-30.1	35.546 ug/L	35.546 ppb	03:03:09
2	B 249.677†	710.7	947.9	8.8955 ug/L	8.8955 ppb	03:02:49
2	Ba 233.527†	52164.1	51194.8	483.44 ug/L	483.44 ppb	03:02:49
2	Be 313.107†	-7211.5	-2817.4	5.9514 ug/L	5.9514 ppb	03:02:49
2	Cd 226.502†	673.8	827.9	1.0225 ug/L	1.0225 ppb	03:03:09
2	Co 228.616†	1247.8	1264.0	25.047 ug/L	25.047 ppb	03:03:09
2	Cr 267.716†	4024.1	3855.8	61.182 ug/L	61.182 ppb	03:03:09
2	Cu 324.752†	31105.5	24185.8	83.492 ug/L	83.492 ppb	03:02:49
2	Mn 257.610†	2163767.3	2123878.8	2796.6 ug/L	2796.6 ppb	03:02:44
2	Mo 202.031†	48.0	33.0	11.258 ug/L	11.258 ppb	03:03:09
2	Ni 231.604†	1489.0	1368.3	42.704 ug/L	42.704 ppb	03:03:09

2	P 214.914†	1048.8	861.5	531.02 ug/L	531.02 ppb	03:03:09
2	Pb 220.353†	547.5	596.4	86.027 ug/L	86.027 ppb	03:03:09
2	S 181.975 Axial†	278.7	249.3	427.74 ug/L	427.74 ppb	03:03:09
2	Sb 206.836†	64.8	37.0	3.0417 ug/L	3.0417 ppb	03:03:09
2	Se 196.026†	-397.9	-373.7	32.122 ug/L	32.122 ppb	03:03:09
2	Si 251.611†	1165575.1	1143806.3	42587 ug/L	42587 ppb	03:02:44
2	Sn 189.927†	-95.7	-97.1	-24.533 ug/L	-24.533 ppb	03:03:09
2	Ti 334.940†	1849131.2	1816513.0	3126.4 ug/L	3126.4 ppb	03:02:44
2	Tl 190.801†	-135.8	-108.3	-3.0336 ug/L	-3.0336 ppb	03:03:09
2	U 409.014†	28791.2	30301.6	879.52 ug/L	879.52 ppb	03:02:44
2	V 292.402†	17392.6	18503.2	125.93 ug/L	125.93 ppb	03:02:49
2	Zn 213.857†	36759.0	35482.6	405.42 ug/L	405.42 ppb	03:02:49
2	SiO2†	1159710.5	1138020.6	90922 ug/L	90922 ppb	03:03:52
3	Sc Radial	4164.1	4164.1	103 %		03:01:45
3	Y RADIAL	5132.9	5132.9	113.6 %		03:01:45
3	Al 396.153Radial†	47139.8	45744.4	48752 ug/L	48752 ppb	03:01:45
3	Ca 317.933Radial†	8548.7	8264.0	16790 ug/L	16790 ppb	03:01:45
3	Fe 238.204 Radial†	8659.3	8379.3	104780 ug/L	104780 ppb	03:01:45
3	K 766.490 Radial†	42691.3	38552.3	7689.3 ug/L	7689.3 ppb	03:01:45
3	Mg 279.077 IEC†	218.9	211.3	9121.6 ug/L	9121.6 ppb	03:02:05
3	Na 589.592 Radial†	1233.2	1655.5	650.14 ug/L	650.14 ppb	03:01:45
3	Sr 421.552†	13821.4	13318.9	113.29 ug/L	113.29 ppb	03:01:45
3	Sc 361.383	850751.2	850751.2	101.30 %		03:03:15
3	Y 371.029	824635.7	824635.7	115.16 %		03:03:15
3	Ag 328.068†	-5952.5	-6129.7	1.1153 ug/L	1.1153 ppb	03:03:20
3	As 188.979†	-42.7	-21.4	40.099 ug/L	40.099 ppb	03:03:40
3	B 249.677†	852.7	1091.9	12.902 ug/L	12.902 ppb	03:03:20
3	Ba 233.527†	51448.1	50770.7	479.45 ug/L	479.45 ppb	03:03:20
3	Be 313.107†	-7377.0	-3019.8	5.8529 ug/L	5.8529 ppb	03:03:20
3	Cd 226.502†	657.9	815.9	0.8858 ug/L	0.8858 ppb	03:03:40
3	Co 228.616†	1263.6	1286.4	25.648 ug/L	25.648 ppb	03:03:40
3	Cr 267.716†	4051.5	3904.7	61.783 ug/L	61.783 ppb	03:03:40
3	Cu 324.752†	30610.5	23865.7	82.438 ug/L	82.438 ppb	03:03:20
3	Mn 257.610†	2147449.2	2119493.7	2790.9 ug/L	2790.9 ppb	03:03:15
3	Mo 202.031†	43.7	28.9	10.876 ug/L	10.876 ppb	03:03:40
3	Ni 231.604†	1526.2	1413.0	44.101 ug/L	44.101 ppb	03:03:40
3	P 214.914†	1060.5	878.7	543.80 ug/L	543.80 ppb	03:03:40
3	Pb 220.353†	545.2	597.0	86.085 ug/L	86.085 ppb	03:03:40
3	S 181.975 Axial†	278.2	250.2	429.45 ug/L	429.45 ppb	03:03:40
3	Sb 206.836†	52.9	25.6	-1.7185 ug/L	-1.7185 ppb	03:03:40
3	Se 196.026†	-400.4	-378.3	27.374 ug/L	27.374 ppb	03:03:40
3	Si 251.611†	1156522.0	1141184.6	42490 ug/L	42490 ppb	03:03:15
3	Sn 189.927†	-83.9	-85.9	-22.062 ug/L	-22.062 ppb	03:03:40
3	Ti 334.940†	1834753.2	1812338.3	3119.2 ug/L	3119.2 ppb	03:03:15
3	Tl 190.801†	-154.9	-127.8	-10.670 ug/L	-10.670 ppb	03:03:40
3	U 409.014†	28615.2	30283.9	879.03 ug/L	879.03 ppb	03:03:15
3	V 292.402†	17096.8	18305.3	124.45 ug/L	124.45 ppb	03:03:20
3	Zn 213.857†	36277.7	35206.7	402.18 ug/L	402.18 ppb	03:03:20
3	SiO2†	1170815.5	1155267.1	92300 ug/L	92300 ppb	03:03:58

Mean Data: 247907010|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854744.9	101.77 %		0.440			0.43%
Sc Radial	4150.6	103 %		0.5			0.51%
Y 371.029	828224.5	115.66 %		0.463			0.40%
Y RADIAL	5155.3	114.1 %		0.60			0.53%
Ag 328.068†	-6136.7	1.2375 ug/L		0.37969	1.2375 ppb	0.37969	30.68%
Al 396.153Radial†	45991.6	49016 ug/L		230.7	49016 ppb	230.7	0.47%
As 188.979†	-23.1	39.356 ug/L		3.4985	39.356 ppb	3.4985	8.89%
B 249.677†	1030.0	11.118 ug/L		2.0389	11.118 ppb	2.0389	18.34%
Ba 233.527†	50889.0	480.57 ug/L		2.498	480.57 ppb	2.498	0.52%
Be 313.107†	-2887.1	5.9189 ug/L		0.05712	5.9189 ppb	0.05712	0.97%
Ca 317.933Radial†	8316.2	16896 ug/L		111.5	16896 ppb	111.5	0.66%
Cd 226.502†	823.7	0.9422 ug/L		0.07142	0.9422 ppb	0.07142	7.58%
Co 228.616†	1271.1	25.233 ug/L		0.3599	25.233 ppb	0.3599	1.43%
Cr 267.716†	3874.6	61.446 ug/L		0.3072	61.446 ppb	0.3072	0.50%
Cu 324.752†	23910.2	82.609 ug/L		0.8121	82.609 ppb	0.8121	0.98%
Fe 238.204 Radial†	8420.4	105290 ug/L		640.9	105290 ppb	640.9	0.61%
K 766.490 Radial†	38740.5	7726.9 ug/L		35.42	7726.9 ppb	35.42	0.46%

Mg 279.077 IEC†	212.5	9174.6 ug/L	60.60	9174.6 ppb	60.60	0.66%
Mn 257.610†	2123261.0	2795.8 ug/L	4.65	2795.8 ppb	4.65	0.17%
Mo 202.031†	34.3	11.386 ug/L	0.5858	11.386 ppb	0.5858	5.14%
Na 589.592 Radial†	1652.0	648.78 ug/L	1.173	648.78 ppb	1.173	0.18%
Ni 231.604†	1391.9	43.443 ug/L	0.7022	43.443 ppb	0.7022	1.62%
P 214.914†	869.6	536.89 ug/L	6.451	536.89 ppb	6.451	1.20%
Pb 220.353†	601.0	86.674 ug/L	1.0712	86.674 ppb	1.0712	1.24%
S 181.975 Axial†	247.8	425.08 ug/L	6.154	425.08 ppb	6.154	1.45%
Sb 206.836†	32.6	1.2254 ug/L	2.57264	1.2254 ppb	2.57264	209.94%
Se 196.026†	-374.3	32.212 ug/L	4.8827	32.212 ppb	4.8827	15.16%
Si 251.611†	1143390.1	42572 ug/L	75.6	42572 ppb	75.6	0.18%
Sn 189.927†	-89.6	-22.891 ug/L	1.4225	-22.891 ppb	1.4225	6.21%
Sr 421.552†	13396.5	113.95 ug/L	0.624	113.95 ppb	0.624	0.55%
Ti 334.940†	1815430.4	3124.6 ug/L	4.68	3124.6 ppb	4.68	0.15%
Tl 190.801†	-116.0	-6.0264 ug/L	4.07704	-6.0264 ppb	4.07704	67.65%
U 409.014†	30352.1	880.98 ug/L	2.964	880.98 ppb	2.964	0.34%
V 292.402†	18365.6	124.85 ug/L	0.950	124.85 ppb	0.950	0.76%
Zn 213.857†	35265.7	402.81 ug/L	2.361	402.81 ppb	2.361	0.59%
SiO2†	1140655.2	91133 ug/L	1077.7	91133 ppb	1077.7	1.18%

Sequence No.: 91
 Sample ID: 247907011|958057|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 108
 Date Collected: 3/26/2010 03:06:10
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247907011|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4222.6	4222.6	105 %		03:08:03
1	Y RADIAL	5055.3	5055.3	111.9 %		03:08:03
1	Al 396.153Radial†	35031.6	33545.0	35751 ug/L	35751 ppb	03:08:03
1	Ca 317.933Radial†	6084.1	5794.9	11774 ug/L	11774 ppb	03:08:03
1	Fe 238.204 Radial†	5846.6	5576.2	69729 ug/L	69729 ppb	03:08:03
1	K 766.490 Radial†	36279.2	31853.9	6353.9 ug/L	6353.9 ppb	03:08:03
1	Mg 279.077 IEC†	163.5	155.5	6720.0 ug/L	6720.0 ppb	03:08:23
1	Na 589.592 Radial†	1131.0	1541.3	605.31 ug/L	605.31 ppb	03:08:03
1	Sr 421.552†	10510.1	9970.2	84.814 ug/L	84.814 ppb	03:08:03
1	Sc 361.383	858238.7	858238.7	102.19 %		03:09:21
1	Y 371.029	806859.3	806859.3	112.68 %		03:09:21
1	Ag 328.068†	-3974.0	-4142.3	0.9133 ug/L	0.9133 ppb	03:09:26
1	As 188.979†	-38.7	-17.1	27.311 ug/L	27.311 ppb	03:09:46
1	B 249.677†	394.1	635.8	6.0812 ug/L	6.0812 ppb	03:09:26
1	Ba 233.527†	47978.7	46932.5	442.30 ug/L	442.30 ppb	03:09:26
1	Be 313.107†	4716.4	8878.0	8.8767 ug/L	8.8767 ppb	03:09:26
1	Cd 226.502†	813.7	962.7	6.4021 ug/L	6.4021 ppb	03:09:46
1	Co 228.616†	950.4	969.0	19.536 ug/L	19.536 ppb	03:09:46
1	Cr 267.716†	4128.2	3944.8	58.883 ug/L	58.883 ppb	03:09:46
1	Cu 324.752†	202863.8	192165.7	626.80 ug/L	626.80 ppb	03:09:26
1	Mn 257.610†	1986652.6	1943646.4	2556.8 ug/L	2556.8 ppb	03:09:21
1	Mo 202.031†	11.1	-3.4	5.2581 ug/L	5.2581 ppb	03:09:46
1	Ni 231.604†	1510.3	1384.4	43.212 ug/L	43.212 ppb	03:09:46
1	P 214.914†	1441.0	1242.0	721.62 ug/L	721.62 ppb	03:09:46
1	Pb 220.353†	1217.2	1249.9	186.23 ug/L	186.23 ppb	03:09:46
1	S 181.975 Axial†	358.7	326.7	565.90 ug/L	565.90 ppb	03:09:46
1	Sb 206.836†	48.4	20.7	-0.3910 ug/L	-0.3910 ppb	03:09:46
1	Se 196.026†	-275.9	-253.0	18.477 ug/L	18.477 ppb	03:09:46
1	Si 251.611†	991200.0	969443.2	36095 ug/L	36095 ppb	03:09:21
1	Sn 189.927†	-24.3	-26.9	-7.8679 ug/L	-7.8679 ppb	03:09:46
1	Ti 334.940†	1378207.1	1349769.4	2323.3 ug/L	2323.3 ppb	03:09:21
1	Tl 190.801†	-117.4	-89.8	-3.5425 ug/L	-3.5425 ppb	03:09:46
1	U 409.014†	-2157.1	-75.7	-10.291 ug/L	-10.291 ppb	03:09:21
1	V 292.402†	11368.1	12552.1	84.251 ug/L	84.251 ppb	03:09:26
1	Zn 213.857†	30398.2	29140.7	334.63 ug/L	334.63 ppb	03:09:26
1	SiO2†	995200.1	973329.8	77764 ug/L	77764 ppb	03:10:54
2	Sc Radial	4172.8	4172.8	103 %		03:08:28
2	Y RADIAL	5011.2	5011.2	110.9 %		03:08:28
2	Al 396.153Radial†	34756.4	33678.7	35893 ug/L	35893 ppb	03:08:28
2	Ca 317.933Radial†	5994.7	5777.9	11739 ug/L	11739 ppb	03:08:28
2	Fe 238.204 Radial†	5807.9	5605.5	70096 ug/L	70096 ppb	03:08:28
2	K 766.490 Radial†	35858.7	31861.4	6355.4 ug/L	6355.4 ppb	03:08:28
2	Mg 279.077 IEC†	162.6	156.5	6761.3 ug/L	6761.3 ppb	03:08:48
2	Na 589.592 Radial†	1040.3	1466.5	575.93 ug/L	575.93 ppb	03:08:28
2	Sr 421.552†	10319.4	9905.7	84.265 ug/L	84.265 ppb	03:08:28
2	Sc 361.383	857643.0	857643.0	102.12 %		03:09:52
2	Y 371.029	807571.4	807571.4	112.78 %		03:09:52
2	Ag 328.068†	-4051.9	-4221.3	0.6312 ug/L	0.6312 ppb	03:09:57
2	As 188.979†	-42.6	-20.9	25.293 ug/L	25.293 ppb	03:10:17
2	B 249.677†	389.2	631.3	5.9000 ug/L	5.9000 ppb	03:09:57
2	Ba 233.527†	48113.5	47097.1	443.86 ug/L	443.86 ppb	03:09:57
2	Be 313.107†	4740.7	8905.1	8.8709 ug/L	8.8709 ppb	03:09:57
2	Cd 226.502†	826.2	975.5	6.5446 ug/L	6.5446 ppb	03:10:17
2	Co 228.616†	918.3	938.2	18.746 ug/L	18.746 ppb	03:10:17
2	Cr 267.716†	4122.0	3941.6	58.881 ug/L	58.881 ppb	03:10:17
2	Cu 324.752†	203483.3	192910.3	629.23 ug/L	629.23 ppb	03:09:57
2	Mn 257.610†	1977478.0	1936012.4	2546.8 ug/L	2546.8 ppb	03:09:52
2	Mo 202.031†	14.3	-0.2	5.5632 ug/L	5.5632 ppb	03:10:17
2	Ni 231.604†	1500.9	1376.2	42.956 ug/L	42.956 ppb	03:10:17

2	P 214.914†	1430.2	1232.4	713.99 ug/L	713.99 ppb	03:10:17
2	Pb 220.353†	1250.9	1283.8	191.32 ug/L	191.32 ppb	03:10:17
2	S 181.975 Axial†	365.0	333.0	576.98 ug/L	576.98 ppb	03:10:17
2	Sb 206.836†	44.5	16.9	-1.9873 ug/L	-1.9873 ppb	03:10:17
2	Se 196.026†	-267.4	-244.9	26.062 ug/L	26.062 ppb	03:10:17
2	Si 251.611†	986658.5	965669.6	35955 ug/L	35955 ppb	03:09:52
2	Sn 189.927†	-24.5	-27.1	-7.9442 ug/L	-7.9442 ppb	03:10:17
2	Ti 334.940†	1372860.4	1345470.5	2315.9 ug/L	2315.9 ppb	03:09:52
2	Tl 190.801†	-119.2	-91.6	-4.3651 ug/L	-4.3651 ppb	03:10:17
2	U 409.014†	-2134.7	-55.2	-9.7315 ug/L	-9.7315 ppb	03:09:52
2	V 292.402†	11460.7	12650.5	84.970 ug/L	84.970 ppb	03:09:57
2	Zn 213.857†	30488.0	29249.2	335.87 ug/L	335.87 ppb	03:09:57
2	SiO2†	984540.8	963567.9	76984 ug/L	76984 ppb	03:11:00
3	Sc Radial	4215.9	4215.9	105 %		03:08:53
3	Y RADIAL	5072.0	5072.0	112.3 %		03:08:53
3	Al 396.153Radial†	35064.0	33629.5	35841 ug/L	35841 ppb	03:08:53
3	Ca 317.933Radial†	6092.5	5812.2	11809 ug/L	11809 ppb	03:08:53
3	Fe 238.204 Radial†	5845.1	5583.7	69823 ug/L	69823 ppb	03:08:53
3	K 766.490 Radial†	36430.3	32053.9	6393.8 ug/L	6393.8 ppb	03:08:53
3	Mg 279.077 IEC†	163.5	155.8	6732.1 ug/L	6732.1 ppb	03:09:13
3	Na 589.592 Radial†	1119.8	1532.4	601.78 ug/L	601.78 ppb	03:08:53
3	Sr 421.552†	10446.0	9924.9	84.428 ug/L	84.428 ppb	03:08:53
3	Sc 361.383	861408.1	861408.1	102.57 %		03:10:23
3	Y 371.029	810084.8	810084.8	113.13 %		03:10:23
3	Ag 328.068†	-4012.6	-4165.6	0.8211 ug/L	0.8211 ppb	03:10:28
3	As 188.979†	-42.7	-20.8	25.303 ug/L	25.303 ppb	03:10:48
3	B 249.677†	420.7	660.3	6.7422 ug/L	6.7422 ppb	03:10:28
3	Ba 233.527†	47959.5	46741.1	440.51 ug/L	440.51 ppb	03:10:28
3	Be 313.107†	4650.1	8796.4	8.8362 ug/L	8.8362 ppb	03:10:28
3	Cd 226.502†	830.8	976.4	6.5864 ug/L	6.5864 ppb	03:10:48
3	Co 228.616†	909.3	925.5	18.410 ug/L	18.410 ppb	03:10:48
3	Cr 267.716†	4136.1	3937.7	58.799 ug/L	58.799 ppb	03:10:48
3	Cu 324.752†	202959.9	191529.1	624.74 ug/L	624.74 ppb	03:10:28
3	Mn 257.610†	1988706.6	1938496.2	2550.0 ug/L	2550.0 ppb	03:10:23
3	Mo 202.031†	16.2	1.6	5.7030 ug/L	5.7030 ppb	03:10:48
3	Ni 231.604†	1496.8	1365.8	42.632 ug/L	42.632 ppb	03:10:48
3	P 214.914†	1442.8	1238.5	719.48 ug/L	719.48 ppb	03:10:48
3	Pb 220.353†	1246.3	1274.0	189.87 ug/L	189.87 ppb	03:10:48
3	S 181.975 Axial†	368.5	334.9	580.23 ug/L	580.23 ppb	03:10:48
3	Sb 206.836†	54.7	26.7	2.1754 ug/L	2.1754 ppb	03:10:48
3	Se 196.026†	-272.8	-249.1	21.945 ug/L	21.945 ppb	03:10:48
3	Si 251.611†	992317.4	966963.9	36003 ug/L	36003 ppb	03:10:23
3	Sn 189.927†	-19.0	-21.6	-6.7014 ug/L	-6.7014 ppb	03:10:48
3	Ti 334.940†	1381371.1	1347892.1	2320.1 ug/L	2320.1 ppb	03:10:23
3	Tl 190.801†	-126.3	-98.1	-6.8103 ug/L	-6.8103 ppb	03:10:48
3	U 409.014†	-2048.5	38.0	-6.9578 ug/L	-6.9578 ppb	03:10:23
3	V 292.402†	11403.6	12545.8	84.205 ug/L	84.205 ppb	03:10:28
3	Zn 213.857†	30496.2	29126.8	334.46 ug/L	334.46 ppb	03:10:28
3	SiO2†	989174.6	963871.8	77009 ug/L	77009 ppb	03:11:06

Mean Data: 247907011|958057|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	859096.6	102.29 %	0.241			0.24%
Sc Radial	4203.8	104 %	0.7			0.64%
Y 371.029	808171.8	112.86 %	0.237			0.21%
Y RADIAL	5046.2	111.7 %	0.69			0.62%
Ag 328.068†	-4176.4	0.7885 ug/L	0.14384	0.7885 ppb	0.14384	18.24%
Al 396.153Radial†	33617.7	35828 ug/L	72.1	35828 ppb	72.1	0.20%
As 188.979†	-19.6	25.969 ug/L	1.1625	25.969 ppb	1.1625	4.48%
B 249.677†	642.5	6.2411 ug/L	0.44328	6.2411 ppb	0.44328	7.10%
Ba 233.527†	46923.6	442.22 ug/L	1.676	442.22 ppb	1.676	0.38%
Be 313.107†	8859.9	8.8613 ug/L	0.02188	8.8613 ppb	0.02188	0.25%
Ca 317.933Radial†	5795.0	11774 ug/L	34.9	11774 ppb	34.9	0.30%
Cd 226.502†	971.5	6.5110 ug/L	0.09664	6.5110 ppb	0.09664	1.48%
Co 228.616†	944.2	18.897 ug/L	0.5780	18.897 ppb	0.5780	3.06%
Cr 267.716†	3941.4	58.855 ug/L	0.0478	58.855 ppb	0.0478	0.08%
Cu 324.752†	192201.7	626.92 ug/L	2.250	626.92 ppb	2.250	0.36%
Fe 238.204 Radial†	5588.5	69883 ug/L	190.4	69883 ppb	190.4	0.27%
K 766.490 Radial†	31923.1	6367.7 ug/L	22.62	6367.7 ppb	22.62	0.36%

Mg 279.077 IEC†	155.9	6737.8 ug/L	21.26	6737.8 ppb	21.26	0.32%
Mn 257.610†	1939385.0	2551.2 ug/L	5.09	2551.2 ppb	5.09	0.20%
Mo 202.031†	-0.6	5.5081 ug/L	0.22753	5.5081 ppb	0.22753	4.13%
Na 589.592 Radial†	1513.4	594.34 ug/L	16.039	594.34 ppb	16.039	2.70%
Ni 231.604†	1375.4	42.934 ug/L	0.2907	42.934 ppb	0.2907	0.68%
P 214.914†	1237.6	718.36 ug/L	3.938	718.36 ppb	3.938	0.55%
Pb 220.353†	1269.2	189.14 ug/L	2.620	189.14 ppb	2.620	1.39%
S 181.975 Axial†	331.5	574.37 ug/L	7.512	574.37 ppb	7.512	1.31%
Sb 206.836†	21.5	-0.0676 ug/L	2.10010	-0.0676 ppb	2.10010	>999.9%
Se 196.026†	-249.0	22.161 ug/L	3.7970	22.161 ppb	3.7970	17.13%
Si 251.611†	967358.9	36018 ug/L	71.4	36018 ppb	71.4	0.20%
Sn 189.927†	-25.2	-7.5045 ug/L	0.69654	-7.5045 ppb	0.69654	9.28%
Sr 421.552†	9933.6	84.502 ug/L	0.2818	84.502 ppb	0.2818	0.33%
Ti 334.940†	1347710.7	2319.7 ug/L	3.71	2319.7 ppb	3.71	0.16%
Tl 190.801†	-93.2	-4.9060 ug/L	1.69970	-4.9060 ppb	1.69970	34.65%
U 409.014†	-31.0	-8.9935 ug/L	1.78503	-8.9935 ppb	1.78503	19.85%
V 292.402†	12582.8	84.475 ug/L	0.4291	84.475 ppb	0.4291	0.51%
Zn 213.857†	29172.2	334.99 ug/L	0.767	334.99 ppb	0.767	0.23%
SiO2†	966923.2	77252 ug/L	443.5	77252 ppb	443.5	0.57%

Sequence No.: 92

Sample ID: 247907012|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 3/26/2010 03:13:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907012|958057|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4204.1	4204.1	104 %		03:15:11
1	Y RADIAL	5147.2	5147.2	113.9 %		03:15:11
1	Al 396.153Radial†	35285.4	33936.4	36168 ug/L	36168 ppb	03:15:11
1	Ca 317.933Radial†	8230.1	7879.7	16010 ug/L	16010 ppb	03:15:11
1	Fe 238.204 Radial†	7425.8	7116.2	88986 ug/L	88986 ppb	03:15:11
1	K 766.490 Radial†	37635.5	33308.4	6642.5 ug/L	6642.5 ppb	03:15:11
1	Mg 279.077 IEC†	155.5	148.5	6392.0 ug/L	6392.0 ppb	03:15:31
1	Na 589.592 Radial†	4454.9	4735.4	1859.7 ug/L	1859.7 ppb	03:15:11
1	Sr 421.552†	11900.4	11348.6	96.520 ug/L	96.520 ppb	03:15:11
1	Sc 361.383	858401.1	858401.1	102.21 %		03:16:29
1	Y 371.029	824062.7	824062.7	115.08 %		03:16:29
1	Ag 328.068†	-5107.1	-5250.2	1.2422 ug/L	1.2422 ppb	03:16:34
1	As 188.979†	-56.8	-34.7	25.840 ug/L	25.840 ppb	03:16:54
1	B 249.677†	509.4	748.6	6.0730 ug/L	6.0730 ppb	03:16:34
1	Ba 233.527†	36591.8	35782.7	338.33 ug/L	338.33 ppb	03:16:34
1	Be 313.107†	-9403.2	-4937.4	4.1826 ug/L	4.1826 ppb	03:16:34
1	Cd 226.502†	739.0	889.4	3.3640 ug/L	3.3640 ppb	03:16:54
1	Co 228.616†	681.2	705.4	11.493 ug/L	11.493 ppb	03:16:54
1	Cr 267.716†	5820.7	5600.0	82.489 ug/L	82.489 ppb	03:16:54
1	Cu 324.752†	51710.6	44240.7	148.21 ug/L	148.21 ppb	03:16:34
1	Mn 257.610†	1716830.2	1679285.8	2211.8 ug/L	2211.8 ppb	03:16:29
1	Mo 202.031†	13.0	-1.4	6.9734 ug/L	6.9734 ppb	03:16:54
1	Ni 231.604†	1583.2	1455.4	45.433 ug/L	45.433 ppb	03:16:54
1	P 214.914†	1196.3	1002.3	629.17 ug/L	629.17 ppb	03:16:54
1	Pb 220.353†	930.5	969.2	141.60 ug/L	141.60 ppb	03:16:54
1	S 181.975 Axial†	404.8	371.7	644.68 ug/L	644.68 ppb	03:16:54
1	Sb 206.836†	36.5	9.1	-6.9688 ug/L	-6.9688 ppb	03:16:54
1	Se 196.026†	-345.2	-320.8	21.598 ug/L	21.598 ppb	03:16:54
1	Si 251.611†	1047135.5	1023986.8	38126 ug/L	38126 ppb	03:16:29
1	Sn 189.927†	-36.6	-38.9	-10.879 ug/L	-10.879 ppb	03:16:54
1	Ti 334.940†	1617888.1	1584017.2	2726.9 ug/L	2726.9 ppb	03:16:29
1	Tl 190.801†	-128.8	-101.0	-6.1275 ug/L	-6.1275 ppb	03:16:54
1	U 409.014†	-5278.6	-3129.4	-102.39 ug/L	-102.39 ppb	03:16:29
1	V 292.402†	9523.3	10745.1	66.906 ug/L	66.906 ppb	03:16:34
1	Zn 213.857†	35445.4	34073.2	390.98 ug/L	390.98 ppb	03:16:34
1	SiO2†	1051173.6	1027909.7	82125 ug/L	82125 ppb	03:18:03
2	Sc Radial	4270.7	4270.7	106 %		03:15:36
2	Y RADIAL	5220.0	5220.0	115.5 %		03:15:36
2	Al 396.153Radial†	35626.6	33730.3	35948 ug/L	35948 ppb	03:15:36
2	Ca 317.933Radial†	8300.3	7822.8	15894 ug/L	15894 ppb	03:15:36
2	Fe 238.204 Radial†	7496.8	7072.0	88434 ug/L	88434 ppb	03:15:36
2	K 766.490 Radial†	37831.3	32929.9	6567.0 ug/L	6567.0 ppb	03:15:36
2	Mg 279.077 IEC†	155.8	146.5	6305.2 ug/L	6305.2 ppb	03:15:56
2	Na 589.592 Radial†	4498.0	4709.4	1849.5 ug/L	1849.5 ppb	03:15:36
2	Sr 421.552†	11945.1	11212.5	95.362 ug/L	95.362 ppb	03:15:36
2	Sc 361.383	858300.5	858300.5	102.20 %		03:17:00
2	Y 371.029	824973.2	824973.2	115.21 %		03:17:00
2	Ag 328.068†	-5024.1	-5169.5	1.4807 ug/L	1.4807 ppb	03:17:05
2	As 188.979†	-58.8	-36.7	24.613 ug/L	24.613 ppb	03:17:25
2	B 249.677†	504.0	743.3	6.0179 ug/L	6.0179 ppb	03:17:05
2	Ba 233.527†	36493.2	35690.5	337.45 ug/L	337.45 ppb	03:17:05
2	Be 313.107†	-9588.4	-5119.6	4.0941 ug/L	4.0941 ppb	03:17:05
2	Cd 226.502†	773.0	922.8	3.8922 ug/L	3.8922 ppb	03:17:25
2	Co 228.616†	699.8	723.6	11.986 ug/L	11.986 ppb	03:17:25
2	Cr 267.716†	5847.6	5627.0	82.782 ug/L	82.782 ppb	03:17:25
2	Cu 324.752†	51731.5	44267.0	148.27 ug/L	148.27 ppb	03:17:05
2	Mn 257.610†	1708806.5	1671631.4	2201.7 ug/L	2201.7 ppb	03:17:00
2	Mo 202.031†	-1.3	-15.4	5.6991 ug/L	5.6991 ppb	03:17:25
2	Ni 231.604†	1600.2	1472.2	45.957 ug/L	45.957 ppb	03:17:25

2	P 214.914†	1211.5	1017.2	640.35 ug/L	640.35 ppb	03:17:25
2	Pb 220.353†	919.3	958.4	140.00 ug/L	140.00 ppb	03:17:25
2	S 181.975 Axial†	413.0	379.7	658.84 ug/L	658.84 ppb	03:17:25
2	Sb 206.836†	52.2	24.4	-0.3904 ug/L	-0.3904 ppb	03:17:25
2	Se 196.026†	-340.8	-316.5	23.330 ug/L	23.330 ppb	03:17:25
2	Si 251.611†	1042901.6	1019964.0	37976 ug/L	37976 ppb	03:17:00
2	Sn 189.927†	-21.5	-24.1	-7.5903 ug/L	-7.5903 ppb	03:17:25
2	Ti 334.940†	1613890.7	1580291.2	2720.5 ug/L	2720.5 ppb	03:17:00
2	Tl 190.801†	-122.3	-94.6	-3.7902 ug/L	-3.7902 ppb	03:17:25
2	U 409.014†	-5196.5	-3049.6	-99.979 ug/L	-99.979 ppb	03:17:00
2	V 292.402†	9613.6	10834.5	67.668 ug/L	67.668 ppb	03:17:05
2	Zn 213.857†	35424.1	34056.4	390.86 ug/L	390.86 ppb	03:17:05
2	SiO2†	1036382.0	1013556.5	80978 ug/L	80978 ppb	03:18:08
3	Sc Radial	4263.2	4263.2	106 %		03:16:01
3	Y RADIAL	5235.0	5235.0	115.9 %		03:16:01
3	Al 396.153Radial†	35778.8	33933.2	36165 ug/L	36165 ppb	03:16:01
3	Ca 317.933Radial†	8341.7	7875.6	16001 ug/L	16001 ppb	03:16:01
3	Fe 238.204 Radial†	7530.8	7116.6	88991 ug/L	88991 ppb	03:16:01
3	K 766.490 Radial†	37961.0	33115.1	6603.9 ug/L	6603.9 ppb	03:16:01
3	Mg 279.077 IEC†	156.8	147.6	6355.3 ug/L	6355.3 ppb	03:16:21
3	Na 589.592 Radial†	4465.4	4686.0	1840.3 ug/L	1840.3 ppb	03:16:01
3	Sr 421.552†	12023.1	11306.1	96.158 ug/L	96.158 ppb	03:16:01
3	Sc 361.383	867286.3	867286.3	103.27 %		03:17:31
3	Y 371.029	833820.5	833820.5	116.44 %		03:17:31
3	Ag 328.068†	-5187.6	-5276.9	1.1136 ug/L	1.1136 ppb	03:17:36
3	As 188.979†	-47.3	-24.9	31.036 ug/L	31.036 ppb	03:17:56
3	B 249.677†	593.5	824.9	8.1717 ug/L	8.1717 ppb	03:17:36
3	Ba 233.527†	36797.7	35615.3	336.77 ug/L	336.77 ppb	03:17:36
3	Be 313.107†	-9583.2	-5017.4	4.1370 ug/L	4.1370 ppb	03:17:36
3	Cd 226.502†	768.2	910.3	3.6577 ug/L	3.6577 ppb	03:17:56
3	Co 228.616†	680.7	698.1	11.316 ug/L	11.316 ppb	03:17:56
3	Cr 267.716†	5838.2	5558.6	81.952 ug/L	81.952 ppb	03:17:56
3	Cu 324.752†	52226.6	44222.0	148.15 ug/L	148.15 ppb	03:17:36
3	Mn 257.610†	1727396.7	1672309.4	2202.7 ug/L	2202.7 ppb	03:17:31
3	Mo 202.031†	16.7	2.0	7.2739 ug/L	7.2739 ppb	03:17:56
3	Ni 231.604†	1593.0	1449.0	45.235 ug/L	45.235 ppb	03:17:56
3	P 214.914†	1197.9	991.8	621.69 ug/L	621.69 ppb	03:17:56
3	Pb 220.353†	924.3	953.9	139.29 ug/L	139.29 ppb	03:17:56
3	S 181.975 Axial†	394.2	357.3	619.50 ug/L	619.50 ppb	03:17:56
3	Sb 206.836†	48.9	20.7	-2.0091 ug/L	-2.0091 ppb	03:17:56
3	Se 196.026†	-334.7	-307.2	32.485 ug/L	32.485 ppb	03:17:56
3	Si 251.611†	1054637.7	1020755.7	38006 ug/L	38006 ppb	03:17:31
3	Sn 189.927†	-34.4	-36.4	-10.327 ug/L	-10.327 ppb	03:17:56
3	Ti 334.940†	1631161.9	1580654.1	2721.2 ug/L	2721.2 ppb	03:17:31
3	Tl 190.801†	-115.9	-87.2	-0.9024 ug/L	-0.9024 ppb	03:17:56
3	U 409.014†	-5384.0	-3178.6	-103.83 ug/L	-103.83 ppb	03:17:31
3	V 292.402†	9722.6	10842.7	67.664 ug/L	67.664 ppb	03:17:36
3	Zn 213.857†	35721.9	33985.6	389.94 ug/L	389.94 ppb	03:17:36
3	SiO2†	1045789.1	1012159.1	80866 ug/L	80866 ppb	03:18:14

Mean Data: 247907012|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861329.3	102.56 %	0.614			0.60%
Sc Radial	4246.0	105 %	0.9			0.86%
Y 371.029	827618.8	115.58 %	0.753			0.65%
Y RADIAL	5200.7	115.1 %	1.04			0.90%
Ag 328.068†	-5232.2	1.2788 ug/L	0.18630	1.2788 ppb	0.18630	14.57%
Al 396.153Radial†	33866.6	36094 ug/L	125.8	36094 ppb	125.8	0.35%
As 188.979†	-32.1	27.163 ug/L	3.4093	27.163 ppb	3.4093	12.55%
B 249.677†	772.3	6.7542 ug/L	1.22790	6.7542 ppb	1.22790	18.18%
Ba 233.527†	35696.2	337.52 ug/L	0.785	337.52 ppb	0.785	0.23%
Be 313.107†	-5024.8	4.1379 ug/L	0.04427	4.1379 ppb	0.04427	1.07%
Ca 317.933Radial†	7859.4	15968 ug/L	64.5	15968 ppb	64.5	0.40%
Cd 226.502†	907.5	3.6380 ug/L	0.26468	3.6380 ppb	0.26468	7.28%
Co 228.616†	709.0	11.598 ug/L	0.3475	11.598 ppb	0.3475	3.00%
Cr 267.716†	5595.2	82.408 ug/L	0.4207	82.408 ppb	0.4207	0.51%
Cu 324.752†	44243.2	148.21 ug/L	0.057	148.21 ppb	0.057	0.04%
Fe 238.204 Radial†	7101.6	88803 ug/L	320.1	88803 ppb	320.1	0.36%
K 766.490 Radial†	33117.8	6604.5 ug/L	37.77	6604.5 ppb	37.77	0.57%

Mg 279.077 IEC†	147.5	6350.8 ug/L	43.55	6350.8 ppb	43.55	0.69%
Mn 257.610†	1674408.9	2205.4 ug/L	5.58	2205.4 ppb	5.58	0.25%
Mo 202.031†	-4.9	6.6488 ug/L	0.83608	6.6488 ppb	0.83608	12.57%
Na 589.592 Radial†	4710.3	1849.8 ug/L	9.71	1849.8 ppb	9.71	0.52%
Ni 231.604†	1458.9	45.542 ug/L	0.3733	45.542 ppb	0.3733	0.82%
P 214.914†	1003.8	630.40 ug/L	9.391	630.40 ppb	9.391	1.49%
Pb 220.353†	960.5	140.30 ug/L	1.181	140.30 ppb	1.181	0.84%
S 181.975 Axial†	369.6	641.01 ug/L	19.923	641.01 ppb	19.923	3.11%
Sb 206.836†	18.1	-3.1228 ug/L	3.42765	-3.1228 ppb	3.42765	109.76%
Se 196.026†	-314.8	25.804 ug/L	5.8500	25.804 ppb	5.8500	22.67%
Si 251.611†	1021568.8	38036 ug/L	79.3	38036 ppb	79.3	0.21%
Sn 189.927†	-33.1	-9.5988 ug/L	1.76124	-9.5988 ppb	1.76124	18.35%
Sr 421.552†	11289.1	96.013 ug/L	0.5923	96.013 ppb	0.5923	0.62%
Ti 334.940†	1581654.1	2722.9 ug/L	3.54	2722.9 ppb	3.54	0.13%
Tl 190.801†	-94.3	-3.6067 ug/L	2.61736	-3.6067 ppb	2.61736	72.57%
U 409.014†	-3119.2	-102.07 ug/L	1.948	-102.07 ppb	1.948	1.91%
V 292.402†	10807.4	67.413 ug/L	0.4388	67.413 ppb	0.4388	0.65%
Zn 213.857†	34038.4	390.60 ug/L	0.569	390.60 ppb	0.569	0.15%
SiO2†	1017875.1	81323 ug/L	696.5	81323 ppb	696.5	0.86%

Sequence No.: 93
 Sample ID: 247907013|958057|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 110
 Date Collected: 3/26/2010 03:20:26
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247907013|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4217.2	4217.2	105 %			03:22:40
1	Y RADIAL	5436.1	5436.1	120.3 %			03:22:40
1	Al 396.153Radial†	81186.0	77734.8	82847 ug/L		82847 ppb	03:22:20
1	Ca 317.933Radial†	9953.1	9503.1	19308 ug/L		19308 ppb	03:22:20
1	Fe 238.204 Radial†	9543.5	9119.4	114040 ug/L		114040 ppb	03:22:20
1	K 766.490 Radial†	60297.1	54871.4	10946 ug/L		10946 ppb	03:22:20
1	Mg 279.077 IEC†	397.1	379.1	16442 ug/L		16442 ppb	03:22:40
1	Na 589.592 Radial†	2550.1	2900.0	1138.9 ug/L		1138.9 ppb	03:22:20
1	Sr 421.552†	25923.7	24726.2	210.41 ug/L		210.41 ppb	03:22:20
1	Sc 361.383	868425.5	868425.5	103.40 %			03:23:38
1	Y 371.029	878977.1	878977.1	122.75 %			03:23:38
1	Ag 328.068†	-7084.1	-7104.4	0.1283 ug/L		0.1283 ppb	03:23:43
1	As 188.979†	-7.0	14.1	49.014 ug/L		49.014 ppb	03:24:03
1	B 249.677†	712.7	939.4	7.2040 ug/L		7.2040 ppb	03:23:43
1	Ba 233.527†	348198.5	336724.7	3160.5 ug/L		3160.5 ppb	03:23:38
1	Be 313.107†	12952.2	16788.8	10.679 ug/L		10.679 ppb	03:23:43
1	Cd 226.502†	716.3	859.1	0.4106 ug/L		0.4106 ppb	03:24:03
1	Co 228.616†	1340.0	1334.8	30.901 ug/L		30.901 ppb	03:24:03
1	Cr 267.716†	24875.2	23961.9	324.41 ug/L		324.41 ppb	03:23:43
1	Cu 324.752†	26646.6	19417.2	69.140 ug/L		69.140 ppb	03:23:43
1	Mn 257.610†	1620483.8	1566719.6	2066.2 ug/L		2066.2 ppb	03:23:38
1	Mo 202.031†	-40.6	-53.4	4.3868 ug/L		4.3868 ppb	03:24:03
1	Ni 231.604†	6512.1	6204.2	193.71 ug/L		193.71 ppb	03:24:03
1	P 214.914†	1076.7	873.1	543.77 ug/L		543.77 ppb	03:24:03
1	Pb 220.353†	529.8	571.2	88.445 ug/L		88.445 ppb	03:24:03
1	S 181.975 Axial†	568.8	525.7	905.85 ug/L		905.85 ppb	03:24:03
1	Sb 206.836†	48.7	20.4	0.0088 ug/L		0.0088 ppb	03:24:03
1	Se 196.026†	-447.5	-415.8	37.934 ug/L		37.934 ppb	03:24:03
1	Si 251.611†	1345552.2	1300759.8	48431 ug/L		48431 ppb	03:23:38
1	Sn 189.927†	-35.3	-37.2	-11.361 ug/L		-11.361 ppb	03:24:03
1	Ti 334.940†	1021315.0	988798.4	1702.5 ug/L		1702.5 ppb	03:23:38
1	Tl 190.801†	-112.3	-83.6	-8.8688 ug/L		-8.8688 ppb	03:24:03
1	U 409.014†	-11149.7	-8747.7	-271.10 ug/L		-271.10 ppb	03:23:38
1	V 292.402†	22814.6	23491.6	162.33 ug/L		162.33 ppb	03:23:43
1	Zn 213.857†	30515.8	28905.4	325.01 ug/L		325.01 ppb	03:23:43
1	SiO2†	1335689.7	1291193.9	103160 ug/L		103160 ppb	03:25:12
2	Sc Radial	4204.0	4204.0	104 %			03:23:05
2	Y RADIAL	5395.0	5395.0	119.4 %			03:23:05
2	Al 396.153Radial†	80891.1	77696.0	82805 ug/L		82805 ppb	03:22:45
2	Ca 317.933Radial†	9935.6	9516.2	19334 ug/L		19334 ppb	03:22:45
2	Fe 238.204 Radial†	9541.4	9146.1	114370 ug/L		114370 ppb	03:22:45
2	K 766.490 Radial†	59950.9	54720.6	10916 ug/L		10916 ppb	03:22:45
2	Mg 279.077 IEC†	398.2	381.4	16541 ug/L		16541 ppb	03:23:05
2	Na 589.592 Radial†	2533.0	2891.4	1135.5 ug/L		1135.5 ppb	03:22:45
2	Sr 421.552†	25799.3	24684.8	210.06 ug/L		210.06 ppb	03:22:45
2	Sc 361.383	866274.5	866274.5	103.15 %			03:24:09
2	Y 371.029	877851.2	877851.2	122.59 %			03:24:09
2	Ag 328.068†	-6846.0	-6890.6	1.3028 ug/L		1.3028 ppb	03:24:14
2	As 188.979†	-9.4	11.7	47.803 ug/L		47.803 ppb	03:24:34
2	B 249.677†	754.8	981.9	8.3164 ug/L		8.3164 ppb	03:24:14
2	Ba 233.527†	345912.9	335345.0	3147.6 ug/L		3147.6 ppb	03:24:09
2	Be 313.107†	12843.1	16714.1	10.643 ug/L		10.643 ppb	03:24:14
2	Cd 226.502†	727.1	871.4	0.5498 ug/L		0.5498 ppb	03:24:34
2	Co 228.616†	1366.2	1363.5	31.643 ug/L		31.643 ppb	03:24:34
2	Cr 267.716†	24732.0	23882.7	323.41 ug/L		323.41 ppb	03:24:14
2	Cu 324.752†	26438.5	19279.4	68.711 ug/L		68.711 ppb	03:24:14
2	Mn 257.610†	1612251.2	1562629.3	2060.9 ug/L		2060.9 ppb	03:24:09
2	Mo 202.031†	-23.9	-37.4	5.8212 ug/L		5.8212 ppb	03:24:34
2	Ni 231.604†	6545.0	6251.8	195.19 ug/L		195.19 ppb	03:24:34

2	P 214.914†	1072.4	871.4	542.41 ug/L	542.41 ppb	03:24:34
2	Pb 220.353†	551.8	593.8	91.802 ug/L	91.802 ppb	03:24:34
2	S 181.975 Axial†	566.9	525.2	905.09 ug/L	905.09 ppb	03:24:34
2	Sb 206.836†	49.7	21.6	0.5146 ug/L	0.5146 ppb	03:24:34
2	Se 196.026†	-444.9	-414.4	40.051 ug/L	40.051 ppb	03:24:34
2	Si 251.611†	1339950.4	1298559.9	48349 ug/L	48349 ppb	03:24:09
2	Sn 189.927†	-34.0	-36.1	-11.119 ug/L	-11.119 ppb	03:24:34
2	Ti 334.940†	1017470.6	987523.7	1700.3 ug/L	1700.3 ppb	03:24:09
2	Tl 190.801†	-115.3	-86.8	-10.139 ug/L	-10.139 ppb	03:24:34
2	U 409.014†	-11130.6	-8756.0	-271.37 ug/L	-271.37 ppb	03:24:09
2	V 292.402†	22537.8	23278.0	160.66 ug/L	160.66 ppb	03:24:14
2	Zn 213.857†	30343.3	28811.5	323.83 ug/L	323.83 ppb	03:24:14
2	SiO2†	1350054.3	1308327.7	104530 ug/L	104530 ppb	03:25:18
3	Sc Radial	4245.4	4245.4	105 %		03:23:30
3	Y RADIAL	5444.5	5444.5	120.5 %		03:23:30
3	Al 396.153Radial†	78754.0	74908.9	79835 ug/L	79835 ppb	03:23:10
3	Ca 317.933Radial†	9646.0	9148.1	18587 ug/L	18587 ppb	03:23:10
3	Fe 238.204 Radial†	9321.0	8847.5	110640 ug/L	110640 ppb	03:23:10
3	K 766.490 Radial†	58471.1	52753.9	10524 ug/L	10524 ppb	03:23:10
3	Mg 279.077 IEC†	397.2	376.7	16338 ug/L	16338 ppb	03:23:30
3	Na 589.592 Radial†	2437.8	2777.2	1090.6 ug/L	1090.6 ppb	03:23:10
3	Sr 421.552†	25066.9	23747.6	202.09 ug/L	202.09 ppb	03:23:10
3	Sc 361.383	866369.2	866369.2	103.16 %		03:24:40
3	Y 371.029	876896.0	876896.0	122.46 %		03:24:40
3	Ag 328.068†	-6957.9	-6998.4	-0.3869 ug/L	-0.3869 ppb	03:24:45
3	As 188.979†	-19.1	2.3	41.884 ug/L	41.884 ppb	03:25:05
3	B 249.677†	671.8	901.4	6.7117 ug/L	6.7117 ppb	03:24:45
3	Ba 233.527†	347145.8	336503.4	3158.3 ug/L	3158.3 ppb	03:24:40
3	Be 313.107†	12718.5	16592.0	10.597 ug/L	10.597 ppb	03:24:45
3	Cd 226.502†	711.9	856.5	0.7264 ug/L	0.7264 ppb	03:25:05
3	Co 228.616†	1334.8	1332.9	30.904 ug/L	30.904 ppb	03:25:05
3	Cr 267.716†	24727.3	23875.6	322.92 ug/L	322.92 ppb	03:24:45
3	Cu 324.752†	26351.2	19192.0	68.229 ug/L	68.229 ppb	03:24:45
3	Mn 257.610†	1616893.0	1566958.2	2066.2 ug/L	2066.2 ppb	03:24:40
3	Mo 202.031†	-18.2	-31.8	6.0134 ug/L	6.0134 ppb	03:25:05
3	Ni 231.604†	6567.4	6272.8	195.85 ug/L	195.85 ppb	03:25:05
3	P 214.914†	1077.7	876.5	548.37 ug/L	548.37 ppb	03:25:05
3	Pb 220.353†	555.7	597.5	92.228 ug/L	92.228 ppb	03:25:05
3	S 181.975 Axial†	567.4	525.7	906.44 ug/L	906.44 ppb	03:25:05
3	Sb 206.836†	58.9	30.4	4.3717 ug/L	4.3717 ppb	03:25:05
3	Se 196.026†	-439.6	-409.2	31.971 ug/L	31.971 ppb	03:25:05
3	Si 251.611†	1341697.0	1300111.1	48407 ug/L	48407 ppb	03:24:40
3	Sn 189.927†	-47.7	-49.4	-13.982 ug/L	-13.982 ppb	03:25:05
3	Ti 334.940†	1018546.7	988459.0	1701.8 ug/L	1701.8 ppb	03:24:40
3	Tl 190.801†	-111.1	-82.6	-8.4845 ug/L	-8.4845 ppb	03:25:05
3	U 409.014†	-11082.2	-8707.8	-269.53 ug/L	-269.53 ppb	03:24:40
3	V 292.402†	22531.7	23269.7	161.14 ug/L	161.14 ppb	03:24:45
3	Zn 213.857†	30304.1	28770.3	323.90 ug/L	323.90 ppb	03:24:45
3	SiO2†	1342223.7	1300593.7	103910 ug/L	103910 ppb	03:25:24

Mean Data: 247907013|958057|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867023.1	103.23 %	0.145			0.14%
Sc Radial	4222.2	105 %	0.5			0.50%
Y 371.029	877908.1	122.60 %	0.145			0.12%
Y RADIAL	5425.2	120.1 %	0.59			0.49%
Ag 328.068†	-6997.8	0.3481 ug/L	0.86604	0.3481 ppb	0.86604	248.80%
Al 396.153Radial†	76779.9	81829 ug/L	1727.0	81829 ppb	1727.0	2.11%
As 188.979†	9.4	46.234 ug/L	3.8153	46.234 ppb	3.8153	8.25%
B 249.677†	940.9	7.4107 ug/L	0.82208	7.4107 ppb	0.82208	11.09%
Ba 233.527†	336191.0	3155.4 ug/L	6.92	3155.4 ppb	6.92	0.22%
Be 313.107†	16698.3	10.640 ug/L	0.0407	10.640 ppb	0.0407	0.38%
Ca 317.933Radial†	9389.1	19076 ug/L	424.3	19076 ppb	424.3	2.22%
Cd 226.502†	862.3	0.5623 ug/L	0.15829	0.5623 ppb	0.15829	28.15%
Co 228.616†	1343.7	31.149 ug/L	0.4276	31.149 ppb	0.4276	1.37%
Cr 267.716†	23906.7	323.58 ug/L	0.757	323.58 ppb	0.757	0.23%
Cu 324.752†	19296.2	68.693 ug/L	0.4558	68.693 ppb	0.4558	0.66%
Fe 238.204 Radial†	9037.7	113010 ug/L	2066.7	113010 ppb	2066.7	1.83%
K 766.490 Radial†	54115.3	10796 ug/L	235.7	10796 ppb	235.7	2.18%

Mg 279.077 IEC†	379.1	16440 ug/L	101.1	16440 ppb	101.1	0.62%
Mn 257.610†	1565435.7	2064.4 ug/L	3.08	2064.4 ppb	3.08	0.15%
Mo 202.031†	-40.9	5.4071 ug/L	0.88881	5.4071 ppb	0.88881	16.44%
Na 589.592 Radial†	2856.2	1121.7 ug/L	26.93	1121.7 ppb	26.93	2.40%
Ni 231.604†	6242.9	194.91 ug/L	1.097	194.91 ppb	1.097	0.56%
P 214.914†	873.7	544.85 ug/L	3.121	544.85 ppb	3.121	0.57%
Pb 220.353†	587.5	90.825 ug/L	2.0723	90.825 ppb	2.0723	2.28%
S 181.975 Axial†	525.5	905.80 ug/L	0.679	905.80 ppb	0.679	0.07%
Sb 206.836†	24.1	1.6317 ug/L	2.38631	1.6317 ppb	2.38631	146.25%
Se 196.026†	-413.1	36.652 ug/L	4.1894	36.652 ppb	4.1894	11.43%
Si 251.611†	1299810.2	48396 ug/L	42.1	48396 ppb	42.1	0.09%
Sn 189.927†	-40.9	-12.154 ug/L	1.5878	-12.154 ppb	1.5878	13.06%
Sr 421.552†	24386.2	207.52 ug/L	4.710	207.52 ppb	4.710	2.27%
Ti 334.940†	988260.4	1701.5 ug/L	1.13	1701.5 ppb	1.13	0.07%
Tl 190.801†	-84.3	-9.1643 ug/L	0.86613	-9.1643 ppb	0.86613	9.45%
U 409.014†	-8737.2	-270.67 ug/L	0.993	-270.67 ppb	0.993	0.37%
V 292.402†	23346.4	161.38 ug/L	0.860	161.38 ppb	0.860	0.53%
Zn 213.857†	28829.0	324.25 ug/L	0.660	324.25 ppb	0.660	0.20%
SiO2†	1300038.4	103870 ug/L	685.5	103870 ppb	685.5	0.66%

Sequence No.: 94

Sample ID: 247907014|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 3/26/2010 03:27:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907014|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4277.7	4277.7	106 %		03:29:29
1	Y RADIAL	6056.2	6056.2	134.0 %		03:29:29
1	Al 396.153Radial†	46846.9	44256.2	47166 ug/L	47166 ppb	03:29:29
1	Ca 317.933Radial†	5626.9	5289.0	10746 ug/L	10746 ppb	03:29:29
1	Fe 238.204 Radial†	9456.2	8908.2	111390 ug/L	111390 ppb	03:29:29
1	K 766.490 Radial†	38096.3	33121.5	6606.8 ug/L	6606.8 ppb	03:29:29
1	Mg 279.077 IEC†	203.3	191.0	8225.9 ug/L	8225.9 ppb	03:29:49
1	Na 589.592 Radial†	3103.4	3387.4	1330.3 ug/L	1330.3 ppb	03:29:29
1	Sr 421.552†	9191.9	8597.9	73.136 ug/L	73.136 ppb	03:29:29
1	Sc 361.383	883485.3	883485.3	105.19 %		03:30:47
1	Y 371.029	975101.0	975101.0	136.17 %		03:30:47
1	Ag 328.068†	-6636.6	-6562.3	2.0676 ug/L	2.0676 ppb	03:30:52
1	As 188.979†	-45.7	-22.6	40.262 ug/L	40.262 ppb	03:31:12
1	B 249.677†	546.1	769.3	2.9888 ug/L	2.9888 ppb	03:30:52
1	Ba 233.527†	37992.9	36098.1	342.09 ug/L	342.09 ppb	03:30:52
1	Be 313.107†	-101.9	4165.8	8.5855 ug/L	8.5855 ppb	03:30:52
1	Cd 226.502†	744.8	874.4	0.8141 ug/L	0.8141 ppb	03:31:12
1	Co 228.616†	927.4	920.5	16.085 ug/L	16.085 ppb	03:31:12
1	Cr 267.716†	11914.1	11230.8	158.35 ug/L	158.35 ppb	03:30:52
1	Cu 324.752†	22431.9	14971.4	54.638 ug/L	54.638 ppb	03:30:52
1	Mn 257.610†	2414542.7	2294850.9	3021.6 ug/L	3021.6 ppb	03:30:47
1	Mo 202.031†	11.1	-3.7	8.4536 ug/L	8.4536 ppb	03:31:12
1	Ni 231.604†	3121.5	2873.7	89.718 ug/L	89.718 ppb	03:31:12
1	P 214.914†	1698.8	1446.7	952.20 ug/L	952.20 ppb	03:31:12
1	Pb 220.353†	543.3	575.3	81.447 ug/L	81.447 ppb	03:31:12
1	S 181.975 Axial†	127.6	96.9	160.96 ug/L	160.96 ppb	03:31:12
1	Sb 206.836†	58.7	29.2	0.2317 ug/L	0.2317 ppb	03:31:12
1	Se 196.026†	-427.7	-389.7	37.288 ug/L	37.288 ppb	03:31:12
1	Si 251.611†	1210476.0	1150172.7	42825 ug/L	42825 ppb	03:30:47
1	Sn 189.927†	-22.7	-24.7	-9.9506 ug/L	-9.9506 ppb	03:31:12
1	Ti 334.940†	1855573.7	1765021.7	3037.6 ug/L	3037.6 ppb	03:30:47
1	Tl 190.801†	-150.9	-118.4	-6.5480 ug/L	-6.5480 ppb	03:31:12
1	U 409.014†	-14823.5	-12056.2	-367.77 ug/L	-367.77 ppb	03:30:47
1	V 292.402†	17376.8	17946.2	118.33 ug/L	118.33 ppb	03:30:52
1	Zn 213.857†	44315.3	41520.4	475.95 ug/L	475.95 ppb	03:30:52
1	SiO2†	1200350.9	1140519.6	91122 ug/L	91122 ppb	03:32:21
2	Sc Radial	4267.4	4267.4	106 %		03:29:55
2	Y RADIAL	6056.7	6056.7	134.1 %		03:29:55
2	Al 396.153Radial†	46376.4	43918.2	46806 ug/L	46806 ppb	03:29:55
2	Ca 317.933Radial†	5569.5	5247.5	10662 ug/L	10662 ppb	03:29:55
2	Fe 238.204 Radial†	9403.1	8879.5	111040 ug/L	111040 ppb	03:29:55
2	K 766.490 Radial†	37807.7	32935.5	6569.7 ug/L	6569.7 ppb	03:29:55
2	Mg 279.077 IEC†	203.6	191.7	8259.9 ug/L	8259.9 ppb	03:30:15
2	Na 589.592 Radial†	3119.2	3409.3	1338.9 ug/L	1338.9 ppb	03:29:55
2	Sr 421.552†	9144.1	8573.7	72.930 ug/L	72.930 ppb	03:29:55
2	Sc 361.383	880831.7	880831.7	104.88 %		03:31:18
2	Y 371.029	972738.0	972738.0	135.84 %		03:31:18
2	Ag 328.068†	-6633.4	-6578.2	1.8821 ug/L	1.8821 ppb	03:31:23
2	As 188.979†	-32.8	-10.4	46.741 ug/L	46.741 ppb	03:31:43
2	B 249.677†	522.6	748.4	2.4715 ug/L	2.4715 ppb	03:31:23
2	Ba 233.527†	38055.6	36266.8	343.66 ug/L	343.66 ppb	03:31:23
2	Be 313.107†	2.7	4265.3	8.6296 ug/L	8.6296 ppb	03:31:23
2	Cd 226.502†	724.3	857.0	0.6054 ug/L	0.6054 ppb	03:31:43
2	Co 228.616†	928.3	924.0	16.173 ug/L	16.173 ppb	03:31:43
2	Cr 267.716†	11902.7	11254.0	158.62 ug/L	158.62 ppb	03:31:23
2	Cu 324.752†	22576.4	15173.4	55.277 ug/L	55.277 ppb	03:31:23
2	Mn 257.610†	2409407.4	2296869.2	3024.2 ug/L	3024.2 ppb	03:31:18
2	Mo 202.031†	-17.5	-30.9	6.0314 ug/L	6.0314 ppb	03:31:43
2	Ni 231.604†	3114.7	2876.2	89.795 ug/L	89.795 ppb	03:31:43

2	P 214.914†	1707.7	1460.1	961.85 ug/L	961.85 ppb	03:31:43
2	Pb 220.353†	518.0	552.8	78.010 ug/L	78.010 ppb	03:31:43
2	S 181.975 Axial†	124.6	94.5	156.79 ug/L	156.79 ppb	03:31:43
2	Sb 206.836†	46.2	17.5	-4.8201 ug/L	-4.8201 ppb	03:31:43
2	Se 196.026†	-432.3	-395.3	31.603 ug/L	31.603 ppb	03:31:43
2	Si 251.611†	1208380.6	1151641.2	42879 ug/L	42879 ppb	03:31:18
2	Sn 189.927†	-30.7	-32.3	-11.642 ug/L	-11.642 ppb	03:31:43
2	Ti 334.940†	1850983.5	1765959.0	3039.2 ug/L	3039.2 ppb	03:31:18
2	Tl 190.801†	-149.6	-117.6	-6.2260 ug/L	-6.2260 ppb	03:31:43
2	U 409.014†	-14982.4	-12250.2	-373.44 ug/L	-373.44 ppb	03:31:18
2	V 292.402†	17331.7	17953.0	118.39 ug/L	118.39 ppb	03:31:23
2	Zn 213.857†	44384.5	41713.3	478.29 ug/L	478.29 ppb	03:31:23
2	SiO2†	1200404.7	1144008.5	91401 ug/L	91401 ppb	03:32:27
3	Sc Radial	4251.1	4251.1	105 %		03:30:20
3	Y RADIAL	6041.4	6041.4	133.7 %		03:30:20
3	Al 396.153Radial†	46455.9	44161.5	47065 ug/L	47065 ppb	03:30:20
3	Ca 317.933Radial†	5599.2	5295.8	10760 ug/L	10760 ppb	03:30:20
3	Fe 238.204 Radial†	9441.6	8950.1	111920 ug/L	111920 ppb	03:30:20
3	K 766.490 Radial†	37950.3	33207.7	6624.0 ug/L	6624.0 ppb	03:30:20
3	Mg 279.077 IEC†	206.4	195.2	8409.5 ug/L	8409.5 ppb	03:30:40
3	Na 589.592 Radial†	3056.7	3361.4	1320.1 ug/L	1320.1 ppb	03:30:20
3	Sr 421.552†	9072.2	8538.6	72.630 ug/L	72.630 ppb	03:30:20
3	Sc 361.383	882224.8	882224.8	105.04 %		03:31:49
3	Y 371.029	973079.6	973079.6	135.89 %		03:31:49
3	Ag 328.068†	-6830.3	-6755.6	1.2665 ug/L	1.2665 ppb	03:31:54
3	As 188.979†	-28.1	-5.9	49.378 ug/L	49.378 ppb	03:32:14
3	B 249.677†	608.9	829.9	4.5682 ug/L	4.5682 ppb	03:31:54
3	Ba 233.527†	38651.0	36776.2	348.47 ug/L	348.47 ppb	03:31:54
3	Be 313.107†	154.9	4410.2	8.6922 ug/L	8.6922 ppb	03:31:54
3	Cd 226.502†	717.0	848.9	0.4008 ug/L	0.4008 ppb	03:32:14
3	Co 228.616†	912.8	907.9	15.742 ug/L	15.742 ppb	03:32:14
3	Cr 267.716†	12060.4	11386.2	160.44 ug/L	160.44 ppb	03:31:54
3	Cu 324.752†	23006.1	15548.4	56.537 ug/L	56.537 ppb	03:31:54
3	Mn 257.610†	2419287.9	2302647.7	3031.9 ug/L	3031.9 ppb	03:31:49
3	Mo 202.031†	3.2	-11.1	7.8407 ug/L	7.8407 ppb	03:32:14
3	Ni 231.604†	3125.8	2882.1	89.980 ug/L	89.980 ppb	03:32:14
3	P 214.914†	1696.6	1446.9	951.52 ug/L	951.52 ppb	03:32:14
3	Pb 220.353†	541.2	574.1	81.158 ug/L	81.158 ppb	03:32:14
3	S 181.975 Axial†	124.6	94.2	156.38 ug/L	156.38 ppb	03:32:14
3	Sb 206.836†	45.8	17.0	-4.9712 ug/L	-4.9712 ppb	03:32:14
3	Se 196.026†	-441.8	-403.7	27.634 ug/L	27.634 ppb	03:32:14
3	Si 251.611†	1211546.2	1152835.5	42924 ug/L	42924 ppb	03:31:49
3	Sn 189.927†	-22.5	-24.5	-9.9443 ug/L	-9.9443 ppb	03:32:14
3	Ti 334.940†	1854948.4	1766946.7	3040.9 ug/L	3040.9 ppb	03:31:49
3	Tl 190.801†	-155.9	-123.4	-8.4051 ug/L	-8.4051 ppb	03:32:14
3	U 409.014†	-14850.8	-12102.4	-369.20 ug/L	-369.20 ppb	03:31:49
3	V 292.402†	17716.9	18293.5	120.92 ug/L	120.92 ppb	03:31:54
3	Zn 213.857†	45044.8	42275.1	484.83 ug/L	484.83 ppb	03:31:54
3	SiO2†	1196911.8	1138876.0	90991 ug/L	90991 ppb	03:32:33

Mean Data: 247907014|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	882180.6	105.04 %		0.158				0.15%
Sc Radial	4265.4	106 %		0.3				0.31%
Y 371.029	973639.5	135.97 %		0.178				0.13%
Y RADIAL	6051.4	133.9 %		0.19				0.14%
Ag 328.068†	-6632.1	1.7387 ug/L		0.41934	1.7387 ppb		0.41934	24.12%
Al 396.153Radial†	44112.0	47013 ug/L		185.8	47013 ppb		185.8	0.40%
As 188.979†	-13.0	45.460 ug/L		4.6909	45.460 ppb		4.6909	10.32%
B 249.677†	782.5	3.3429 ug/L		1.09227	3.3429 ppb		1.09227	32.67%
Ba 233.527†	36380.4	344.74 ug/L		3.323	344.74 ppb		3.323	0.96%
Be 313.107†	4280.4	8.6358 ug/L		0.05363	8.6358 ppb		0.05363	0.62%
Ca 317.933Radial†	5277.5	10722 ug/L		53.1	10722 ppb		53.1	0.50%
Cd 226.502†	860.1	0.6067 ug/L		0.20664	0.6067 ppb		0.20664	34.06%
Co 228.616†	917.5	16.000 ug/L		0.2276	16.000 ppb		0.2276	1.42%
Cr 267.716†	11290.3	159.14 ug/L		1.134	159.14 ppb		1.134	0.71%
Cu 324.752†	15231.1	55.484 ug/L		0.9666	55.484 ppb		0.9666	1.74%
Fe 238.204 Radial†	8912.6	111450 ug/L		444.0	111450 ppb		444.0	0.40%
K 766.490 Radial†	33088.3	6600.2 ug/L		27.75	6600.2 ppb		27.75	0.42%

Mg 279.077 IEC†	192.6	8298.4 ug/L	97.71	8298.4 ppb	97.71	1.18%
Mn 257.610†	2298122.6	3025.9 ug/L	5.34	3025.9 ppb	5.34	0.18%
Mo 202.031†	-15.2	7.4419 ug/L	1.25938	7.4419 ppb	1.25938	16.92%
Na 589.592 Radial†	3386.0	1329.7 ug/L	9.43	1329.7 ppb	9.43	0.71%
Ni 231.604†	2877.3	89.831 ug/L	0.1347	89.831 ppb	0.1347	0.15%
P 214.914†	1451.2	955.19 ug/L	5.779	955.19 ppb	5.779	0.61%
Pb 220.353†	567.4	80.205 ug/L	1.9066	80.205 ppb	1.9066	2.38%
S 181.975 Axial†	95.2	158.04 ug/L	2.537	158.04 ppb	2.537	1.61%
Sb 206.836†	21.2	-3.1865 ug/L	2.96125	-3.1865 ppb	2.96125	92.93%
Se 196.026†	-396.2	32.175 ug/L	4.8521	32.175 ppb	4.8521	15.08%
Si 251.611†	1151549.8	42876 ug/L	49.7	42876 ppb	49.7	0.12%
Sn 189.927†	-27.2	-10.512 ug/L	0.9781	-10.512 ppb	0.9781	9.30%
Sr 421.552†	8570.1	72.899 ug/L	0.2544	72.899 ppb	0.2544	0.35%
Ti 334.940†	1765975.8	3039.2 ug/L	1.65	3039.2 ppb	1.65	0.05%
Tl 190.801†	-119.8	-7.0597 ug/L	1.17620	-7.0597 ppb	1.17620	16.66%
U 409.014†	-12136.3	-370.14 ug/L	2.949	-370.14 ppb	2.949	0.80%
V 292.402†	18064.3	119.21 ug/L	1.478	119.21 ppb	1.478	1.24%
Zn 213.857†	41836.2	479.69 ug/L	4.604	479.69 ppb	4.604	0.96%
SiO2†	1141134.7	91171 ug/L	209.4	91171 ppb	209.4	0.23%

Sequence No.: 95

Sample ID: 247907015|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 3/26/2010 03:34:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907015|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4336.4	4336.4	108 %		03:36:38
1	Y RADIAL	6398.6	6398.6	141.6 %		03:36:38
1	Al 396.153Radial†	53188.9	49557.7	52817 ug/L	52817 ppb	03:36:38
1	Ca 317.933Radial†	8356.4	7756.2	15759 ug/L	15759 ppb	03:36:38
1	Fe 238.204 Radial†	8593.3	7984.7	99847 ug/L	99847 ppb	03:36:38
1	K 766.490 Radial†	44912.8	38976.0	7774.1 ug/L	7774.1 ppb	03:36:38
1	Mg 279.077 IEC†	246.0	228.2	9862.9 ug/L	9862.9 ppb	03:36:58
1	Na 589.592 Radial†	1619.9	1967.7	772.76 ug/L	772.76 ppb	03:36:38
1	Sr 421.552†	12575.0	11627.6	98.898 ug/L	98.898 ppb	03:36:38
1	Sc 361.383	866605.3	866605.3	103.19 %		03:37:56
1	Y 371.029	999127.4	999127.4	139.53 %		03:37:56
1	Ag 328.068†	-5846.6	-5919.6	1.5096 ug/L	1.5096 ppb	03:38:01
1	As 188.979†	-33.0	-11.2	38.179 ug/L	38.179 ppb	03:38:21
1	B 249.677†	669.0	898.5	8.4242 ug/L	8.4242 ppb	03:38:01
1	Ba 233.527†	43038.2	41691.2	394.12 ug/L	394.12 ppb	03:38:01
1	Be 313.107†	9527.0	13495.6	10.924 ug/L	10.924 ppb	03:38:01
1	Cd 226.502†	647.3	793.7	0.8578 ug/L	0.8578 ppb	03:38:21
1	Co 228.616†	763.8	779.1	13.972 ug/L	13.972 ppb	03:38:21
1	Cr 267.716†	4176.8	3952.9	62.316 ug/L	62.316 ppb	03:38:21
1	Cu 324.752†	34110.8	26705.1	92.040 ug/L	92.040 ppb	03:38:01
1	Mn 257.610†	2368863.1	2295289.9	3021.0 ug/L	3021.0 ppb	03:37:56
1	Mo 202.031†	-7.3	-21.3	6.0654 ug/L	6.0654 ppb	03:38:21
1	Ni 231.604†	1871.2	1719.9	53.691 ug/L	53.691 ppb	03:38:21
1	P 214.914†	1155.0	951.1	599.02 ug/L	599.02 ppb	03:38:21
1	Pb 220.353†	537.1	579.3	84.986 ug/L	84.986 ppb	03:38:21
1	S 181.975 Axial†	192.8	162.5	274.89 ug/L	274.89 ppb	03:38:21
1	Sb 206.836†	46.0	17.9	-2.8010 ug/L	-2.8010 ppb	03:38:21
1	Se 196.026†	-373.8	-345.3	40.625 ug/L	40.625 ppb	03:38:21
1	Si 251.611†	1255711.3	1216425.3	45291 ug/L	45291 ppb	03:37:56
1	Sn 189.927†	-80.5	-81.1	-20.904 ug/L	-20.904 ppb	03:38:21
1	Ti 334.940†	1437304.1	1394021.6	2399.8 ug/L	2399.8 ppb	03:37:56
1	Tl 190.801†	-130.6	-101.5	-5.2584 ug/L	-5.2584 ppb	03:38:21
1	U 409.014†	-12432.0	-10013.1	-306.13 ug/L	-306.13 ppb	03:37:56
1	V 292.402†	13407.5	14421.2	93.672 ug/L	93.672 ppb	03:38:01
1	Zn 213.857†	43531.3	41581.2	478.58 ug/L	478.58 ppb	03:38:01
1	SiO2†	1248416.6	1209327.8	96619 ug/L	96619 ppb	03:39:29
2	Sc Radial	4249.6	4249.6	105 %		03:37:03
2	Y RADIAL	6264.2	6264.2	138.6 %		03:37:03
2	Al 396.153Radial†	52190.7	49619.9	52883 ug/L	52883 ppb	03:37:03
2	Ca 317.933Radial†	8141.2	7710.6	15666 ug/L	15666 ppb	03:37:03
2	Fe 238.204 Radial†	8429.7	7992.7	99946 ug/L	99946 ppb	03:37:03
2	K 766.490 Radial†	44113.2	39069.8	7792.9 ug/L	7792.9 ppb	03:37:03
2	Mg 279.077 IEC†	244.3	231.2	9995.2 ug/L	9995.2 ppb	03:37:23
2	Na 589.592 Radial†	1597.9	1977.6	776.65 ug/L	776.65 ppb	03:37:03
2	Sr 421.552†	12343.0	11646.2	99.057 ug/L	99.057 ppb	03:37:03
2	Sc 361.383	878429.7	878429.7	104.59 %		03:38:27
2	Y 371.029	1012759.2	1012759.2	141.43 %		03:38:27
2	Ag 328.068†	-5884.2	-5879.2	1.7428 ug/L	1.7428 ppb	03:38:32
2	As 188.979†	-26.7	-4.7	41.680 ug/L	41.680 ppb	03:38:52
2	B 249.677†	740.0	957.7	10.036 ug/L	10.036 ppb	03:38:32
2	Ba 233.527†	43576.1	41644.0	393.68 ug/L	393.68 ppb	03:38:32
2	Be 313.107†	9717.8	13553.8	10.947 ug/L	10.947 ppb	03:38:32
2	Cd 226.502†	657.6	795.1	0.8671 ug/L	0.8671 ppb	03:38:52
2	Co 228.616†	772.0	777.0	13.915 ug/L	13.915 ppb	03:38:52
2	Cr 267.716†	4179.9	3901.4	61.655 ug/L	61.655 ppb	03:38:52
2	Cu 324.752†	34550.2	26680.2	91.965 ug/L	91.965 ppb	03:38:32
2	Mn 257.610†	2397393.9	2291665.2	3016.2 ug/L	3016.2 ppb	03:38:27
2	Mo 202.031†	-15.1	-28.6	5.4299 ug/L	5.4299 ppb	03:38:52
2	Ni 231.604†	1869.3	1693.6	52.872 ug/L	52.872 ppb	03:38:52

2	P 214.914†	1183.3	963.1	607.59 ug/L	607.59 ppb	03:38:52
2	Pb 220.353†	549.3	583.9	85.683 ug/L	85.683 ppb	03:38:52
2	S 181.975 Axial†	190.0	157.3	265.83 ug/L	265.83 ppb	03:38:52
2	Sb 206.836†	46.7	18.1	-2.7726 ug/L	-2.7726 ppb	03:38:52
2	Se 196.026†	-377.0	-343.5	42.372 ug/L	42.372 ppb	03:38:52
2	Si 251.611†	1272785.8	1216368.8	45289 ug/L	45289 ppb	03:38:27
2	Sn 189.927†	-84.7	-84.1	-21.581 ug/L	-21.581 ppb	03:38:52
2	Ti 334.940†	1456544.9	1393667.3	2399.2 ug/L	2399.2 ppb	03:38:27
2	Tl 190.801†	-131.2	-100.4	-4.8420 ug/L	-4.8420 ppb	03:38:52
2	U 409.014†	-12615.4	-10026.3	-306.53 ug/L	-306.53 ppb	03:38:27
2	V 292.402†	13497.5	14332.3	92.966 ug/L	92.966 ppb	03:38:32
2	Zn 213.857†	44008.5	41469.5	477.24 ug/L	477.24 ppb	03:38:32
2	SiO2†	1248548.9	1193168.3	95328 ug/L	95328 ppb	03:39:35
3	Sc Radial	4280.9	4280.9	106 %		03:37:28
3	Y RADIAL	6296.3	6296.3	139.4 %		03:37:28
3	Al 396.153Radial†	52278.1	49340.5	52585 ug/L	52585 ppb	03:37:28
3	Ca 317.933Radial†	8233.7	7741.3	15728 ug/L	15728 ppb	03:37:28
3	Fe 238.204 Radial†	8466.8	7969.2	99652 ug/L	99652 ppb	03:37:28
3	K 766.490 Radial†	44342.3	38979.9	7774.9 ug/L	7774.9 ppb	03:37:28
3	Mg 279.077 IEC†	242.5	227.8	9845.8 ug/L	9845.8 ppb	03:37:48
3	Na 589.592 Radial†	1598.7	1967.3	772.58 ug/L	772.58 ppb	03:37:28
3	Sr 421.552†	12376.7	11592.4	98.598 ug/L	98.598 ppb	03:37:28
3	Sc 361.383	870130.6	870130.6	103.60 %		03:38:58
3	Y 371.029	1002003.2	1002003.2	139.93 %		03:38:58
3	Ag 328.068†	-5934.4	-5981.3	1.1454 ug/L	1.1454 ppb	03:39:03
3	As 188.979†	-24.1	-2.4	42.859 ug/L	42.859 ppb	03:39:23
3	B 249.677†	789.5	1012.1	11.581 ug/L	11.581 ppb	03:39:03
3	Ba 233.527†	43375.2	41847.5	395.58 ug/L	395.58 ppb	03:39:03
3	Be 313.107†	9573.4	13503.0	10.933 ug/L	10.933 ppb	03:39:03
3	Cd 226.502†	640.5	784.6	0.7483 ug/L	0.7483 ppb	03:39:23
3	Co 228.616†	765.0	777.3	13.921 ug/L	13.921 ppb	03:39:23
3	Cr 267.716†	4200.1	3958.9	62.377 ug/L	62.377 ppb	03:39:23
3	Cu 324.752†	34538.1	26983.6	92.935 ug/L	92.935 ppb	03:39:03
3	Mn 257.610†	2382947.3	2299582.9	3026.6 ug/L	3026.6 ppb	03:38:58
3	Mo 202.031†	-21.0	-34.5	4.8923 ug/L	4.8923 ppb	03:39:23
3	Ni 231.604†	1879.6	1720.6	53.715 ug/L	53.715 ppb	03:39:23
3	P 214.914†	1183.2	973.8	615.26 ug/L	615.26 ppb	03:39:23
3	Pb 220.353†	556.0	595.4	87.391 ug/L	87.391 ppb	03:39:23
3	S 181.975 Axial†	195.1	163.9	277.40 ug/L	277.40 ppb	03:39:23
3	Sb 206.836†	50.9	22.5	-0.8818 ug/L	-0.8818 ppb	03:39:23
3	Se 196.026†	-386.7	-356.3	31.216 ug/L	31.216 ppb	03:39:23
3	Si 251.611†	1262668.0	1218209.5	45358 ug/L	45358 ppb	03:38:58
3	Sn 189.927†	-78.0	-78.4	-20.284 ug/L	-20.284 ppb	03:39:23
3	Ti 334.940†	1444539.2	1395361.4	2402.1 ug/L	2402.1 ppb	03:38:58
3	Tl 190.801†	-145.5	-115.4	-10.573 ug/L	-10.573 ppb	03:39:23
3	U 409.014†	-12590.2	-10117.0	-309.16 ug/L	-309.16 ppb	03:38:58
3	V 292.402†	13613.2	14567.1	94.800 ug/L	94.800 ppb	03:39:03
3	Zn 213.857†	44038.3	41899.6	482.39 ug/L	482.39 ppb	03:39:03
3	SiO2†	1245001.3	1201129.5	95964 ug/L	95964 ppb	03:39:41

Mean Data: 247907015|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	871721.9	103.79 %		0.723			0.70%
Sc Radial	4289.0	106 %		1.1			1.02%
Y 371.029	1004629.9	140.30 %		1.003			0.72%
Y RADIAL	6319.7	139.9 %		1.55			1.11%
Ag 328.068†	-5926.7	1.4659 ug/L		0.30106	1.4659 ppb	0.30106	20.54%
Al 396.153Radial†	49506.0	52762 ug/L		156.3	52762 ppb	156.3	0.30%
As 188.979†	-6.1	40.906 ug/L		2.4344	40.906 ppb	2.4344	5.95%
B 249.677†	956.1	10.014 ug/L		1.5784	10.014 ppb	1.5784	15.76%
Ba 233.527†	41727.6	394.46 ug/L		0.996	394.46 ppb	0.996	0.25%
Be 313.107†	13517.5	10.934 ug/L		0.0112	10.934 ppb	0.0112	0.10%
Ca 317.933Radial†	7736.0	15718 ug/L		47.3	15718 ppb	47.3	0.30%
Cd 226.502†	791.1	0.8244 ug/L		0.06603	0.8244 ppb	0.06603	8.01%
Co 228.616†	777.8	13.936 ug/L		0.0313	13.936 ppb	0.0313	0.22%
Cr 267.716†	3937.7	62.116 ug/L		0.4005	62.116 ppb	0.4005	0.64%
Cu 324.752†	26789.6	92.314 ug/L		0.5395	92.314 ppb	0.5395	0.58%
Fe 238.204 Radial†	7982.2	99815 ug/L		149.6	99815 ppb	149.6	0.15%
K 766.490 Radial†	39008.6	7780.6 ug/L		10.60	7780.6 ppb	10.60	0.14%

Mg 279.077 IEC†	229.0	9901.3 ug/L	81.74	9901.3 ppb	81.74	0.83%
Mn 257.610†	2295512.7	3021.3 ug/L	5.19	3021.3 ppb	5.19	0.17%
Mo 202.031†	-28.1	5.4625 ug/L	0.58723	5.4625 ppb	0.58723	10.75%
Na 589.592 Radial†	1970.9	773.99 ug/L	2.303	773.99 ppb	2.303	0.30%
Ni 231.604†	1711.4	53.426 ug/L	0.4799	53.426 ppb	0.4799	0.90%
P 214.914†	962.7	607.29 ug/L	8.121	607.29 ppb	8.121	1.34%
Pb 220.353†	586.2	86.020 ug/L	1.2374	86.020 ppb	1.2374	1.44%
S 181.975 Axial†	161.2	272.71 ug/L	6.088	272.71 ppb	6.088	2.23%
Sb 206.836†	19.5	-2.1518 ug/L	1.09993	-2.1518 ppb	1.09993	51.12%
Se 196.026†	-348.3	38.071 ug/L	6.0006	38.071 ppb	6.0006	15.76%
Si 251.611†	1217001.2	45313 ug/L	39.0	45313 ppb	39.0	0.09%
Sn 189.927†	-81.2	-20.923 ug/L	0.6487	-20.923 ppb	0.6487	3.10%
Sr 421.552†	11622.1	98.851 ug/L	0.2329	98.851 ppb	0.2329	0.24%
Ti 334.940†	1394350.1	2400.4 ug/L	1.55	2400.4 ppb	1.55	0.06%
Tl 190.801†	-105.8	-6.8912 ug/L	3.19544	-6.8912 ppb	3.19544	46.37%
U 409.014†	-10052.1	-307.27 ug/L	1.649	-307.27 ppb	1.649	0.54%
V 292.402†	14440.2	93.813 ug/L	0.9250	93.813 ppb	0.9250	0.99%
Zn 213.857†	41650.1	479.40 ug/L	2.671	479.40 ppb	2.671	0.56%
SiO2†	1201208.5	95971 ug/L	645.5	95971 ppb	645.5	0.67%

Sequence No.: 96

Sample ID: 247907016|958057|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 3/26/2010 03:41:53

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247907016|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4172.1	4172.1	103 %		03:44:07
1	Y RADIAL	5204.6	5204.6	115.2 %		03:44:07
1	Al 396.153Radial†	105160.4	101754.4	108450 ug/L	108450 ppb	03:43:47
1	Ca 317.933Radial†	13542.8	13076.7	26569 ug/L	26569 ppb	03:43:47
1	Fe 238.204 Radial†	13744.4	13279.8	166060 ug/L	166060 ppb	03:43:47
1	K 766.490 Radial†	102976.2	96759.7	19305 ug/L	19305 ppb	03:43:47
1	Mg 279.077 IEC†	508.9	491.3	21288 ug/L	21288 ppb	03:44:07
1	Na 589.592 Radial†	5830.9	6098.5	2395.0 ug/L	2395.0 ppb	03:43:47
1	Sr 421.552†	26860.0	25899.7	220.35 ug/L	220.35 ppb	03:43:47
1	Sc 361.383	854715.3	854715.3	101.77 %		03:45:04
1	Y 371.029	835679.7	835679.7	116.70 %		03:45:04
1	Ag 328.068†	-9642.2	-9728.0	3.3293 ug/L	3.3293 ppb	03:45:09
1	As 188.979†	-26.3	-5.0	61.955 ug/L	61.955 ppb	03:45:29
1	B 249.677†	1378.8	1604.9	16.967 ug/L	16.967 ppb	03:45:09
1	Ba 233.527†	94752.0	93086.1	878.32 ug/L	878.32 ppb	03:45:09
1	Be 313.107†	8380.1	12497.1	11.816 ug/L	11.816 ppb	03:45:09
1	Cd 226.502†	1126.2	1273.1	0.8541 ug/L	0.8541 ppb	03:45:29
1	Co 228.616†	2453.9	2450.2	55.455 ug/L	55.455 ppb	03:45:29
1	Cr 267.716†	17915.1	17508.6	246.05 ug/L	246.05 ppb	03:45:09
1	Cu 324.752†	47774.0	40590.7	140.55 ug/L	140.55 ppb	03:45:09
1	Mn 257.610†	3006225.3	2953507.4	3890.7 ug/L	3890.7 ppb	03:45:04
1	Mo 202.031†	-59.5	-72.6	6.8222 ug/L	6.8222 ppb	03:45:29
1	Ni 231.604†	5364.0	5177.1	161.62 ug/L	161.62 ppb	03:45:29
1	P 214.914†	1663.0	1465.9	920.56 ug/L	920.56 ppb	03:45:29
1	Pb 220.353†	836.5	880.7	133.44 ug/L	133.44 ppb	03:45:29
1	S 181.975 Axial†	483.4	450.6	769.44 ug/L	769.44 ppb	03:45:29
1	Sb 206.836†	60.8	33.1	-0.0830 ug/L	-0.0830 ppb	03:45:29
1	Se 196.026†	-608.3	-580.8	70.269 ug/L	70.269 ppb	03:45:29
1	Si 251.611†	1437095.3	1411584.8	52558 ug/L	52558 ppb	03:45:04
1	Sn 189.927†	-105.9	-107.1	-28.543 ug/L	-28.543 ppb	03:45:29
1	Ti 334.940†	1755549.7	1726111.4	2971.6 ug/L	2971.6 ppb	03:45:04
1	Tl 190.801†	-154.9	-127.1	-6.8125 ug/L	-6.8125 ppb	03:45:29
1	U 409.014†	-11129.1	-8900.5	-281.33 ug/L	-281.33 ppb	03:45:04
1	V 292.402†	36637.8	37428.4	260.94 ug/L	260.94 ppb	03:45:09
1	Zn 213.857†	43356.9	41996.7	472.86 ug/L	472.86 ppb	03:45:09
1	SiO2†	1456361.1	1430487.7	114290 ug/L	114290 ppb	03:46:38
2	Sc Radial	4261.9	4261.9	106 %		03:44:32
2	Y RADIAL	5285.2	5285.2	117.0 %		03:44:32
2	Al 396.153Radial†	103059.7	97623.5	104040 ug/L	104040 ppb	03:44:12
2	Ca 317.933Radial†	13351.9	12620.1	25641 ug/L	25641 ppb	03:44:12
2	Fe 238.204 Radial†	13454.8	12725.7	159130 ug/L	159130 ppb	03:44:12
2	K 766.490 Radial†	101606.7	93365.4	18628 ug/L	18628 ppb	03:44:12
2	Mg 279.077 IEC†	503.6	476.0	20626 ug/L	20626 ppb	03:44:32
2	Na 589.592 Radial†	5702.6	5858.3	2300.6 ug/L	2300.6 ppb	03:44:12
2	Sr 421.552†	26303.5	24825.7	211.21 ug/L	211.21 ppb	03:44:12
2	Sc 361.383	866355.1	866355.1	103.16 %		03:45:35
2	Y 371.029	846382.7	846382.7	118.20 %		03:45:35
2	Ag 328.068†	-9618.9	-9578.1	1.9300 ug/L	1.9300 ppb	03:45:41
2	As 188.979†	-38.1	-16.1	54.420 ug/L	54.420 ppb	03:46:01
2	B 249.677†	1325.9	1535.5	16.187 ug/L	16.187 ppb	03:45:41
2	Ba 233.527†	93848.6	90959.5	858.16 ug/L	858.16 ppb	03:45:41
2	Be 313.107†	8489.7	12492.8	11.820 ug/L	11.820 ppb	03:45:41
2	Cd 226.502†	1095.2	1228.1	0.9347 ug/L	0.9347 ppb	03:46:01
2	Co 228.616†	2443.0	2407.2	54.426 ug/L	54.426 ppb	03:46:01
2	Cr 267.716†	17898.2	17255.8	242.02 ug/L	242.02 ppb	03:45:41
2	Cu 324.752†	46939.9	39151.3	135.52 ug/L	135.52 ppb	03:45:41
2	Mn 257.610†	3047713.7	2954039.1	3890.7 ug/L	3890.7 ppb	03:45:35
2	Mo 202.031†	-49.6	-62.3	7.1815 ug/L	7.1815 ppb	03:46:01
2	Ni 231.604†	5360.2	5102.7	159.29 ug/L	159.29 ppb	03:46:01

2	P 214.914†	1676.7	1457.2	919.78 ug/L	919.78 ppb	03:46:01
2	Pb 220.353†	851.7	884.5	134.01 ug/L	134.01 ppb	03:46:01
2	S 181.975 Axial†	486.6	447.4	764.66 ug/L	764.66 ppb	03:46:01
2	Sb 206.836†	61.5	33.0	0.0945 ug/L	0.0945 ppb	03:46:01
2	Se 196.026†	-609.0	-573.5	53.905 ug/L	53.905 ppb	03:46:01
2	Si 251.611†	1457766.6	1412651.7	52597 ug/L	52597 ppb	03:45:35
2	Sn 189.927†	-103.1	-103.0	-27.396 ug/L	-27.396 ppb	03:46:01
2	Ti 334.940†	1780963.4	1727571.4	2974.1 ug/L	2974.1 ppb	03:45:35
2	Tl 190.801†	-156.0	-126.2	-6.3955 ug/L	-6.3955 ppb	03:46:01
2	U 409.014†	-11269.0	-8889.1	-280.20 ug/L	-280.20 ppb	03:45:35
2	V 292.402†	36320.1	36636.7	255.84 ug/L	255.84 ppb	03:45:41
2	Zn 213.857†	43018.2	41096.0	463.21 ug/L	463.21 ppb	03:45:41
2	SiO2†	1461169.9	1415922.9	113130 ug/L	113130 ppb	03:46:44
3	Sc Radial	4283.2	4283.2	106 %		03:44:57
3	Y RADIAL	5314.1	5314.1	117.6 %		03:44:57
3	Al 396.153Radial†	103804.9	97842.0	104280 ug/L	104280 ppb	03:44:37
3	Ca 317.933Radial†	13440.7	12641.2	25684 ug/L	25684 ppb	03:44:37
3	Fe 238.204 Radial†	13559.7	12761.4	159580 ug/L	159580 ppb	03:44:37
3	K 766.490 Radial†	102538.6	93766.5	18708 ug/L	18708 ppb	03:44:37
3	Mg 279.077 IEC†	505.3	475.1	20589 ug/L	20589 ppb	03:44:57
3	Na 589.592 Radial†	5807.4	5930.3	2328.9 ug/L	2328.9 ppb	03:44:37
3	Sr 421.552†	26576.0	24959.0	212.35 ug/L	212.35 ppb	03:44:37
3	Sc 361.383	866775.8	866775.8	103.21 %		03:46:06
3	Y 371.029	846639.0	846639.0	118.23 %		03:46:06
3	Ag 328.068†	-9664.8	-9618.0	1.8722 ug/L	1.8722 ppb	03:46:12
3	As 188.979†	-39.1	-17.1	54.003 ug/L	54.003 ppb	03:46:32
3	B 249.677†	1396.3	1603.1	17.973 ug/L	17.973 ppb	03:46:12
3	Ba 233.527†	94350.9	91402.0	862.33 ug/L	862.33 ppb	03:46:12
3	Be 313.107†	8408.5	12410.0	11.789 ug/L	11.789 ppb	03:46:12
3	Cd 226.502†	1103.4	1235.5	0.9925 ug/L	0.9925 ppb	03:46:32
3	Co 228.616†	2437.1	2400.3	54.237 ug/L	54.237 ppb	03:46:32
3	Cr 267.716†	17861.2	17211.5	241.49 ug/L	241.49 ppb	03:46:12
3	Cu 324.752†	47118.5	39302.3	136.03 ug/L	136.03 ppb	03:46:12
3	Mn 257.610†	3050074.8	2954892.8	3891.9 ug/L	3891.9 ppb	03:46:06
3	Mo 202.031†	-57.9	-70.3	6.5114 ug/L	6.5114 ppb	03:46:32
3	Ni 231.604†	5327.8	5068.8	158.23 ug/L	158.23 ppb	03:46:32
3	P 214.914†	1680.1	1459.7	921.17 ug/L	921.17 ppb	03:46:32
3	Pb 220.353†	836.5	869.3	131.71 ug/L	131.71 ppb	03:46:32
3	S 181.975 Axial†	483.3	443.9	758.49 ug/L	758.49 ppb	03:46:32
3	Sb 206.836†	66.6	37.9	2.1085 ug/L	2.1085 ppb	03:46:32
3	Se 196.026†	-605.2	-569.5	58.493 ug/L	58.493 ppb	03:46:32
3	Si 251.611†	1458186.5	1412372.6	52587 ug/L	52587 ppb	03:46:06
3	Sn 189.927†	-107.6	-107.3	-28.364 ug/L	-28.364 ppb	03:46:32
3	Ti 334.940†	1782629.2	1728347.4	2975.4 ug/L	2975.4 ppb	03:46:06
3	Tl 190.801†	-145.5	-115.9	-2.4210 ug/L	-2.4210 ppb	03:46:32
3	U 409.014†	-11254.8	-8870.0	-279.69 ug/L	-279.69 ppb	03:46:06
3	V 292.402†	36560.6	36852.7	257.43 ug/L	257.43 ppb	03:46:12
3	Zn 213.857†	43026.6	41083.9	463.01 ug/L	463.01 ppb	03:46:12
3	SiO2†	1456474.8	1410686.1	112710 ug/L	112710 ppb	03:46:50

Mean Data: 247907016|958057|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862615.4	102.71 %		0.815			0.79%
Sc Radial	4239.1	105 %		1.5			1.39%
Y 371.029	842900.5	117.71 %		0.873			0.74%
Y RADIAL	5267.9	116.6 %		1.26			1.08%
Ag 328.068†	-9641.3	2.3772 ug/L		0.82507	2.3772 ppb	0.82507	34.71%
Al 396.153Radial†	99073.3	105590 ug/L		2477.3	105590 ppb	2477.3	2.35%
As 188.979†	-12.7	56.793 ug/L		4.4752	56.793 ppb	4.4752	7.88%
B 249.677†	1581.2	17.042 ug/L		0.8957	17.042 ppb	0.8957	5.26%
Ba 233.527†	91815.9	866.27 ug/L		10.643	866.27 ppb	10.643	1.23%
Be 313.107†	12466.6	11.809 ug/L		0.0166	11.809 ppb	0.0166	0.14%
Ca 317.933Radial†	12779.3	25964 ug/L		523.7	25964 ppb	523.7	2.02%
Cd 226.502†	1245.6	0.9271 ug/L		0.06951	0.9271 ppb	0.06951	7.50%
Co 228.616†	2419.2	54.706 ug/L		0.6555	54.706 ppb	0.6555	1.20%
Cr 267.716†	17325.3	243.19 ug/L		2.496	243.19 ppb	2.496	1.03%
Cu 324.752†	39681.4	137.37 ug/L		2.770	137.37 ppb	2.770	2.02%
Fe 238.204 Radial†	12922.3	161590 ug/L		3878.0	161590 ppb	3878.0	2.40%
K 766.490 Radial†	94630.5	18880 ug/L		370.1	18880 ppb	370.1	1.96%

Mg 279.077 IEC†	480.8	20834 ug/L	393.6	20834 ppb	393.6	1.89%
Mn 257.610†	2954146.4	3891.1 ug/L	0.69	3891.1 ppb	0.69	0.02%
Mo 202.031†	-68.4	6.8384 ug/L	0.33532	6.8384 ppb	0.33532	4.90%
Na 589.592 Radial†	5962.4	2341.5 ug/L	48.41	2341.5 ppb	48.41	2.07%
Ni 231.604†	5116.2	159.72 ug/L	1.730	159.72 ppb	1.730	1.08%
P 214.914†	1461.0	920.50 ug/L	0.695	920.50 ppb	0.695	0.08%
Pb 220.353†	878.2	133.05 ug/L	1.198	133.05 ppb	1.198	0.90%
S 181.975 Axial†	447.3	764.19 ug/L	5.488	764.19 ppb	5.488	0.72%
Sb 206.836†	34.7	0.7067 ug/L	1.21726	0.7067 ppb	1.21726	172.25%
Se 196.026†	-574.6	60.889 ug/L	8.4412	60.889 ppb	8.4412	13.86%
Si 251.611†	1412203.0	52581 ug/L	20.6	52581 ppb	20.6	0.04%
Sn 189.927†	-105.8	-28.101 ug/L	0.6170	-28.101 ppb	0.6170	2.20%
Sr 421.552†	25228.1	214.64 ug/L	4.981	214.64 ppb	4.981	2.32%
Ti 334.940†	1727343.4	2973.7 ug/L	1.92	2973.7 ppb	1.92	0.06%
Tl 190.801†	-123.1	-5.2097 ug/L	2.42405	-5.2097 ppb	2.42405	46.53%
U 409.014†	-8886.5	-280.41 ug/L	0.841	-280.41 ppb	0.841	0.30%
V 292.402†	36972.6	258.07 ug/L	2.607	258.07 ppb	2.607	1.01%
Zn 213.857†	41392.2	466.36 ug/L	5.627	466.36 ppb	5.627	1.21%
SiO2†	1419032.3	113370 ug/L	819.8	113370 ppb	819.8	0.72%

Sequence No.: 97
 Sample ID: 247907017|958057|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 114
 Date Collected: 3/26/2010 03:49:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247907017|958057|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4109.4	4109.4	102 %		03:51:15
1	Y RADIAL	5393.6	5393.6	119.4 %		03:50:55
1	Al 396.153Radial†	48158.2	47352.6	50466 ug/L	50466 ppb	03:50:55
1	Ca 317.933Radial†	7949.7	7786.4	15820 ug/L	15820 ppb	03:50:55
1	Fe 238.204 Radial†	7707.6	7556.9	94497 ug/L	94497 ppb	03:50:55
1	K 766.490 Radial†	37725.6	34228.9	6827.1 ug/L	6827.1 ppb	03:50:55
1	Mg 279.077 IEC†	211.5	206.9	8940.6 ug/L	8940.6 ppb	03:51:15
1	Na 589.592 Radial†	1776.7	2204.9	865.90 ug/L	865.90 ppb	03:50:55
1	Sr 421.552†	13362.8	13047.2	110.99 ug/L	110.99 ppb	03:50:55
1	Sc 361.383	843412.6	843412.6	100.42 %		03:52:12
1	Y 371.029	839821.2	839821.2	117.28 %		03:52:12
1	Ag 328.068†	-5229.2	-5460.6	2.0311 ug/L	2.0311 ppb	03:52:12
1	As 188.979†	-18.9	2.0	41.222 ug/L	41.222 ppb	03:52:32
1	B 249.677†	478.6	726.7	4.5695 ug/L	4.5695 ppb	03:52:12
1	Ba 233.527†	39971.2	39784.1	376.09 ug/L	376.09 ppb	03:52:12
1	Be 313.107†	-2407.0	1865.8	5.4791 ug/L	5.4791 ppb	03:52:12
1	Cd 226.502†	541.5	705.6	0.2036 ug/L	0.2036 ppb	03:52:32
1	Co 228.616†	772.5	808.2	15.467 ug/L	15.467 ppb	03:52:32
1	Cr 267.716†	4410.9	4297.3	66.163 ug/L	66.163 ppb	03:52:32
1	Cu 324.752†	24263.3	17808.2	62.799 ug/L	62.799 ppb	03:52:12
1	Mn 257.610†	984646.5	980041.2	1294.8 ug/L	1294.8 ppb	03:52:12
1	Mo 202.031†	12.3	-1.9	7.3557 ug/L	7.3557 ppb	03:52:32
1	Ni 231.604†	1687.1	1586.4	49.523 ug/L	49.523 ppb	03:52:32
1	P 214.914†	881.8	709.9	435.07 ug/L	435.07 ppb	03:52:32
1	Pb 220.353†	411.9	468.9	68.608 ug/L	68.608 ppb	03:52:32
1	S 181.975 Axial†	210.9	185.6	315.87 ug/L	315.87 ppb	03:52:32
1	Sb 206.836†	46.8	20.0	-0.7430 ug/L	-0.7430 ppb	03:52:32
1	Se 196.026†	-355.3	-336.9	30.583 ug/L	30.583 ppb	03:52:32
1	Si 251.611†	1219918.6	1214247.9	45210 ug/L	45210 ppb	03:52:12
1	Sn 189.927†	-87.0	-89.8	-22.493 ug/L	-22.493 ppb	03:52:32
1	Ti 334.940†	1212826.2	1208794.2	2081.1 ug/L	2081.1 ppb	03:52:12
1	Tl 190.801†	-103.4	-77.9	-7.0252 ug/L	-7.0252 ppb	03:52:32
1	U 409.014†	-5353.1	-3295.3	-107.86 ug/L	-107.86 ppb	03:52:12
1	V 292.402†	13820.0	15189.3	101.09 ug/L	101.09 ppb	03:52:12
1	Zn 213.857†	30682.7	29946.8	341.23 ug/L	341.23 ppb	03:52:12
1	SiO2†	1251454.2	1245622.7	99519 ug/L	99519 ppb	03:53:30
2	Sc Radial	4100.7	4100.7	102 %		03:51:40
2	Y RADIAL	5280.7	5280.7	116.9 %		03:51:20
2	Al 396.153Radial†	47107.5	46418.6	49471 ug/L	49471 ppb	03:51:20
2	Ca 317.933Radial†	7726.0	7582.8	15406 ug/L	15406 ppb	03:51:20
2	Fe 238.204 Radial†	7557.6	7425.3	92851 ug/L	92851 ppb	03:51:20
2	K 766.490 Radial†	36819.0	33415.1	6664.7 ug/L	6664.7 ppb	03:51:20
2	Mg 279.077 IEC†	209.6	205.5	8879.4 ug/L	8879.4 ppb	03:51:40
2	Na 589.592 Radial†	1738.4	2170.9	852.56 ug/L	852.56 ppb	03:51:20
2	Sr 421.552†	13054.5	12771.5	108.64 ug/L	108.64 ppb	03:51:20
2	Sc 361.383	861607.5	861607.5	102.59 %		03:52:38
2	Y 371.029	855970.7	855970.7	119.54 %		03:52:38
2	Ag 328.068†	-5362.7	-5480.8	1.4266 ug/L	1.4266 ppb	03:52:38
2	As 188.979†	-15.2	6.1	43.070 ug/L	43.070 ppb	03:52:58
2	B 249.677†	491.0	728.8	4.8959 ug/L	4.8959 ppb	03:52:38
2	Ba 233.527†	40938.1	39886.1	376.99 ug/L	376.99 ppb	03:52:38
2	Be 313.107†	-2315.0	2006.2	5.5493 ug/L	5.5493 ppb	03:52:38
2	Cd 226.502†	561.1	713.3	0.4819 ug/L	0.4819 ppb	03:52:58
2	Co 228.616†	767.7	787.2	14.931 ug/L	14.931 ppb	03:52:58
2	Cr 267.716†	4421.7	4215.1	64.919 ug/L	64.919 ppb	03:52:58
2	Cu 324.752†	24924.5	17942.5	63.147 ug/L	63.147 ppb	03:52:38
2	Mn 257.610†	1008387.7	982477.5	1297.9 ug/L	1297.9 ppb	03:52:38
2	Mo 202.031†	0.6	-13.6	6.1969 ug/L	6.1969 ppb	03:52:58
2	Ni 231.604†	1698.6	1562.2	48.766 ug/L	48.766 ppb	03:52:58

2	P 214.914†	887.1	696.5	426.48 ug/L	426.48 ppb	03:52:58
2	Pb 220.353†	398.5	447.2	65.340 ug/L	65.340 ppb	03:52:58
2	S 181.975 Axial†	211.2	181.5	308.89 ug/L	308.89 ppb	03:52:58
2	Sb 206.836†	32.9	5.4	-6.9006 ug/L	-6.9006 ppb	03:52:58
2	Se 196.026†	-336.6	-311.1	45.856 ug/L	45.856 ppb	03:52:58
2	Si 251.611†	1250207.2	1218119.0	45354 ug/L	45354 ppb	03:52:38
2	Sn 189.927†	-82.0	-83.0	-20.978 ug/L	-20.978 ppb	03:52:58
2	Ti 334.940†	1242464.0	1212180.1	2086.9 ug/L	2086.9 ppb	03:52:38
2	Tl 190.801†	-92.0	-64.6	-1.8242 ug/L	-1.8242 ppb	03:52:58
2	U 409.014†	-5433.1	-3260.8	-106.65 ug/L	-106.65 ppb	03:52:38
2	V 292.402†	14170.1	15239.9	101.70 ug/L	101.70 ppb	03:52:38
2	Zn 213.857†	31367.6	29969.3	341.75 ug/L	341.75 ppb	03:52:38
2	SiO2†	1261015.7	1228626.8	98161 ug/L	98161 ppb	03:53:36
3	Sc Radial	4153.9	4153.9	103 %		03:52:05
3	Y RADIAL	5460.8	5460.8	120.9 %		03:51:45
3	Al 396.153Radial†	48191.8	46879.0	49962 ug/L	49962 ppb	03:51:45
3	Ca 317.933Radial†	7951.2	7704.3	15653 ug/L	15653 ppb	03:51:45
3	Fe 238.204 Radial†	7680.6	7449.7	93156 ug/L	93156 ppb	03:51:45
3	K 766.490 Radial†	37727.8	33834.5	6748.4 ug/L	6748.4 ppb	03:51:45
3	Mg 279.077 IEC†	214.4	207.5	8968.9 ug/L	8968.9 ppb	03:52:05
3	Na 589.592 Radial†	1761.7	2171.6	852.84 ug/L	852.84 ppb	03:51:45
3	Sr 421.552†	13392.6	12935.6	110.04 ug/L	110.04 ppb	03:51:45
3	Sc 361.383	849160.6	849160.6	101.11 %		03:53:04
3	Y 371.029	844760.0	844760.0	117.97 %		03:53:04
3	Ag 328.068†	-5211.7	-5408.0	1.8865 ug/L	1.8865 ppb	03:53:04
3	As 188.979†	-25.0	-3.9	37.793 ug/L	37.793 ppb	03:53:24
3	B 249.677†	457.4	702.6	4.1238 ug/L	4.1238 ppb	03:53:04
3	Ba 233.527†	40441.7	39980.0	377.88 ug/L	377.88 ppb	03:53:04
3	Be 313.107†	-2222.8	2064.2	5.5733 ug/L	5.5733 ppb	03:53:04
3	Cd 226.502†	540.7	701.2	0.2787 ug/L	0.2787 ppb	03:53:24
3	Co 228.616†	771.1	801.6	15.301 ug/L	15.301 ppb	03:53:24
3	Cr 267.716†	4414.9	4271.5	65.687 ug/L	65.687 ppb	03:53:24
3	Cu 324.752†	24371.0	17751.2	62.545 ug/L	62.545 ppb	03:53:04
3	Mn 257.610†	994569.8	983218.8	1298.9 ug/L	1298.9 ppb	03:53:04
3	Mo 202.031†	2.7	-11.5	6.4067 ug/L	6.4067 ppb	03:53:24
3	Ni 231.604†	1678.3	1566.3	48.895 ug/L	48.895 ppb	03:53:24
3	P 214.914†	885.1	707.2	434.14 ug/L	434.14 ppb	03:53:24
3	Pb 220.353†	412.0	466.3	68.279 ug/L	68.279 ppb	03:53:24
3	S 181.975 Axial†	213.1	186.4	317.38 ug/L	317.38 ppb	03:53:24
3	Sb 206.836†	35.8	8.8	-5.5298 ug/L	-5.5298 ppb	03:53:24
3	Se 196.026†	-349.9	-329.1	32.617 ug/L	32.617 ppb	03:53:24
3	Si 251.611†	1231410.7	1217391.3	45327 ug/L	45327 ppb	03:53:04
3	Sn 189.927†	-92.2	-94.3	-23.445 ug/L	-23.445 ppb	03:53:24
3	Ti 334.940†	1224640.1	1212303.6	2087.2 ug/L	2087.2 ppb	03:53:04
3	Tl 190.801†	-101.7	-75.5	-6.0401 ug/L	-6.0401 ppb	03:53:24
3	U 409.014†	-5476.2	-3381.0	-110.23 ug/L	-110.23 ppb	03:53:04
3	V 292.402†	13942.2	15216.9	101.48 ug/L	101.48 ppb	03:53:04
3	Zn 213.857†	30887.7	29942.8	341.39 ug/L	341.39 ppb	03:53:04
3	SiO2†	1253273.2	1238986.3	98989 ug/L	98989 ppb	03:53:42

Mean Data: 247907017|958057|1

	Mean Corrected	Calib.		Sample		
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	851393.6	101.37 %	1.107			1.09%
Sc Radial	4121.3	102 %	0.7			0.69%
Y 371.029	846850.6	118.26 %	1.156			0.98%
Y RADIAL	5378.3	119.0 %	2.01			1.69%
Ag 328.068†	-5449.8	1.7814 ug/L	0.31568	1.7814 ppb	0.31568	17.72%
Al 396.153Radial†	46883.4	49966 ug/L	497.7	49966 ppb	497.7	1.00%
As 188.979†	1.4	40.695 ug/L	2.6777	40.695 ppb	2.6777	6.58%
B 249.677†	719.4	4.5297 ug/L	0.38757	4.5297 ppb	0.38757	8.56%
Ba 233.527†	39883.4	376.99 ug/L	0.898	376.99 ppb	0.898	0.24%
Be 313.107†	1978.7	5.5339 ug/L	0.04897	5.5339 ppb	0.04897	0.88%
Ca 317.933Radial†	7691.1	15626 ug/L	208.1	15626 ppb	208.1	1.33%
Cd 226.502†	706.7	0.3214 ug/L	0.14400	0.3214 ppb	0.14400	44.81%
Co 228.616†	799.0	15.233 ug/L	0.2746	15.233 ppb	0.2746	1.80%
Cr 267.716†	4261.3	65.590 ug/L	0.6277	65.590 ppb	0.6277	0.96%
Cu 324.752†	17834.0	62.830 ug/L	0.3022	62.830 ppb	0.3022	0.48%
Fe 238.204 Radial†	7477.3	93502 ug/L	875.9	93502 ppb	875.9	0.94%
K 766.490 Radial†	33826.2	6746.7 ug/L	81.18	6746.7 ppb	81.18	1.20%

Mg 279.077 IEC†	206.7	8929.6 ug/L	45.76	8929.6 ppb	45.76	0.51%
Mn 257.610†	981912.5	1297.2 ug/L	2.10	1297.2 ppb	2.10	0.16%
Mo 202.031†	-9.0	6.6531 ug/L	0.61742	6.6531 ppb	0.61742	9.28%
Na 589.592 Radial†	2182.5	857.10 ug/L	7.622	857.10 ppb	7.622	0.89%
Ni 231.604†	1571.6	49.061 ug/L	0.4047	49.061 ppb	0.4047	0.82%
P 214.914†	704.6	431.89 ug/L	4.715	431.89 ppb	4.715	1.09%
Pb 220.353†	460.8	67.409 ug/L	1.7994	67.409 ppb	1.7994	2.67%
S 181.975 Axial†	184.5	314.05 ug/L	4.532	314.05 ppb	4.532	1.44%
Sb 206.836†	11.4	-4.3911 ug/L	3.23285	-4.3911 ppb	3.23285	73.62%
Se 196.026†	-325.7	36.352 ug/L	8.2934	36.352 ppb	8.2934	22.81%
Si 251.611†	1216586.1	45297 ug/L	76.6	45297 ppb	76.6	0.17%
Sn 189.927†	-89.0	-22.305 ug/L	1.2442	-22.305 ppb	1.2442	5.58%
Sr 421.552†	12918.1	109.89 ug/L	1.179	109.89 ppb	1.179	1.07%
Ti 334.940†	1211092.7	2085.1 ug/L	3.41	2085.1 ppb	3.41	0.16%
Tl 190.801†	-72.7	-4.9632 ug/L	2.76270	-4.9632 ppb	2.76270	55.66%
U 409.014†	-3312.4	-108.25 ug/L	1.818	-108.25 ppb	1.818	1.68%
V 292.402†	15215.4	101.42 ug/L	0.309	101.42 ppb	0.309	0.30%
Zn 213.857†	29953.0	341.45 ug/L	0.265	341.45 ppb	0.265	0.08%
SiO2†	1237745.2	98890 ug/L	684.3	98890 ppb	684.3	0.69%

Sequence No.: 98

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/26/2010 03:55:54

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	4131.6	4131.6	102 %		03:57:47
1	Y RADIAL	4443.8	4443.8	98.36 %		03:57:47
1	Al 396.153Radial†	4532.2	4504.7	4776.1 ug/L	4776.1 ppb	03:57:47
1	Ca 317.933Radial†	2497.5	2421.2	4919.3 ug/L	4919.3 ppb	03:58:07
1	Fe 238.204 Radial†	423.5	404.4	5073.0 ug/L	5073.0 ppb	03:58:07
1	K 766.490 Radial†	27570.6	24115.2	4807.6 ug/L	4807.6 ppb	03:57:47
1	Mg 279.077 IEC†	120.5	117.0	5110.1 ug/L	5110.1 ppb	03:58:07
1	Na 589.592 Radial†	27128.6	26947.8	10583 ug/L	10583 ppb	03:57:47
1	Sr 421.552†	59057.6	57590.6	490.38 ug/L	490.38 ppb	03:57:47
1	Sc 361.383	833955.6	833955.6	99.298 %		03:59:04
1	Y 371.029	702592.7	702592.7	98.117 %		03:59:04
1	Ag 328.068†	101345.7	101809.3	516.37 ug/L	516.37 ppb	03:59:09
1	As 188.979†	896.6	923.8	499.57 ug/L	499.57 ppb	03:59:29
1	B 249.677†	17338.6	17711.4	484.54 ug/L	484.54 ppb	03:59:09
1	Ba 233.527†	53201.6	53559.4	503.35 ug/L	503.35 ppb	03:59:09
1	Be 313.107†	1219838.3	1232730.8	501.63 ug/L	501.63 ppb	03:59:04
1	Cd 226.502†	35601.1	36019.4	507.91 ug/L	507.91 ppb	03:59:09
1	Co 228.616†	19722.8	19901.3	518.05 ug/L	518.05 ppb	03:59:09
1	Cr 267.716†	38357.6	38533.9	502.72 ug/L	502.72 ppb	03:59:09
1	Cu 324.752†	159733.7	154511.0	500.98 ug/L	500.98 ppb	03:59:09
1	Mn 257.610†	384606.3	386874.8	507.89 ug/L	507.89 ppb	03:59:04
1	Mo 202.031†	5774.3	5801.0	510.45 ug/L	510.45 ppb	03:59:29
1	Ni 231.604†	16340.1	16362.1	510.59 ug/L	510.59 ppb	03:59:09
1	P 214.914†	3710.6	3568.6	2467.5 ug/L	2467.5 ppb	03:59:29
1	Pb 220.353†	3286.4	3368.5	509.23 ug/L	509.23 ppb	03:59:29
1	S 181.975 Axial†	606.1	586.1	1026.3 ug/L	1026.3 ppb	03:59:29
1	Sb 206.836†	1263.7	1246.0	547.79 ug/L	547.79 ppb	03:59:29
1	Se 196.026†	632.4	653.8	539.42 ug/L	539.42 ppb	03:59:29
1	Si 251.611†	68443.0	68401.8	2540.5 ug/L	2540.5 ppb	03:59:09
1	Sn 189.927†	2296.8	2310.0	512.20 ug/L	512.20 ppb	03:59:29
1	Ti 334.940†	289121.7	292250.4	502.65 ug/L	502.65 ppb	03:59:09
1	Tl 190.801†	1263.1	1297.1	504.90 ug/L	504.90 ppb	03:59:29
1	U 409.014†	15913.3	18061.1	529.74 ug/L	529.74 ppb	03:59:09
1	V 292.402†	63349.0	65224.7	509.68 ug/L	509.68 ppb	03:59:09
1	Zn 213.857†	42779.5	42475.7	499.92 ug/L	499.92 ppb	03:59:09
1	SiO2†	69094.9	69030.4	5501.3 ug/L	5501.3 ppb	04:00:37
2	Sc Radial	4144.3	4144.3	103 %		03:58:12
2	Y RADIAL	4431.1	4431.1	98.08 %		03:58:12
2	Al 396.153Radial†	4482.5	4442.6	4709.9 ug/L	4709.9 ppb	03:58:12
2	Ca 317.933Radial†	2519.7	2435.4	4948.1 ug/L	4948.1 ppb	03:58:32
2	Fe 238.204 Radial†	419.5	399.3	5008.7 ug/L	5008.7 ppb	03:58:32
2	K 766.490 Radial†	27188.7	23660.5	4716.9 ug/L	4716.9 ppb	03:58:12
2	Mg 279.077 IEC†	121.6	117.7	5140.0 ug/L	5140.0 ppb	03:58:32
2	Na 589.592 Radial†	26704.6	26453.4	10389 ug/L	10389 ppb	03:58:12
2	Sr 421.552†	58090.2	56471.2	480.85 ug/L	480.85 ppb	03:58:12
2	Sc 361.383	833036.2	833036.2	99.188 %		03:59:35
2	Y 371.029	700804.8	700804.8	97.868 %		03:59:35
2	Ag 328.068†	101745.7	102325.2	518.96 ug/L	518.96 ppb	03:59:40
2	As 188.979†	908.7	936.9	506.63 ug/L	506.63 ppb	04:00:00
2	B 249.677†	17498.6	17892.1	489.50 ug/L	489.50 ppb	03:59:40
2	Ba 233.527†	53542.6	53962.4	507.14 ug/L	507.14 ppb	03:59:40
2	Be 313.107†	1223785.0	1238065.6	503.81 ug/L	503.81 ppb	03:59:35
2	Cd 226.502†	35916.0	36376.4	512.96 ug/L	512.96 ppb	03:59:40
2	Co 228.616†	19930.3	20132.3	524.07 ug/L	524.07 ppb	03:59:40
2	Cr 267.716†	38648.3	38869.7	507.09 ug/L	507.09 ppb	03:59:40
2	Cu 324.752†	160988.4	155953.5	505.66 ug/L	505.66 ppb	03:59:40
2	Mn 257.610†	387285.4	390003.3	511.99 ug/L	511.99 ppb	03:59:35
2	Mo 202.031†	5805.1	5838.4	513.74 ug/L	513.74 ppb	04:00:00
2	Ni 231.604†	16483.2	16524.6	515.66 ug/L	515.66 ppb	03:59:40

2	P 214.914†	3719.2	3581.5	2475.8 ug/L	2475.8 ppb	04:00:00
2	Pb 220.353†	3282.2	3367.9	509.15 ug/L	509.15 ppb	04:00:00
2	S 181.975 Axial†	609.4	590.0	1033.3 ug/L	1033.3 ppb	04:00:00
2	Sb 206.836†	1252.0	1235.6	543.43 ug/L	543.43 ppb	04:00:00
2	Se 196.026†	625.1	647.2	533.94 ug/L	533.94 ppb	04:00:00
2	Si 251.611†	69275.0	69316.6	2574.6 ug/L	2574.6 ppb	03:59:40
2	Sn 189.927†	2291.1	2306.7	511.49 ug/L	511.49 ppb	04:00:00
2	Ti 334.940†	291679.5	295150.5	507.63 ug/L	507.63 ppb	03:59:40
2	Tl 190.801†	1260.8	1296.2	504.59 ug/L	504.59 ppb	04:00:00
2	U 409.014†	15969.9	18135.8	531.93 ug/L	531.93 ppb	03:59:40
2	V 292.402†	63778.5	65728.1	513.61 ug/L	513.61 ppb	03:59:40
2	Zn 213.857†	43193.6	42940.8	505.41 ug/L	505.41 ppb	03:59:40
2	SiO2†	69575.4	69591.6	5546.0 ug/L	5546.0 ppb	04:00:42
3	Sc Radial	4114.3	4114.3	102 %		03:58:37
3	Y RADIAL	4397.9	4397.9	97.34 %		03:58:37
3	Al 396.153Radial†	4476.3	4468.4	4736.7 ug/L	4736.7 ppb	03:58:37
3	Ca 317.933Radial†	2499.8	2433.8	4944.8 ug/L	4944.8 ppb	03:58:57
3	Fe 238.204 Radial†	420.4	403.2	5057.5 ug/L	5057.5 ppb	03:58:57
3	K 766.490 Radial†	26931.7	23601.9	4705.2 ug/L	4705.2 ppb	03:58:37
3	Mg 279.077 IEC†	116.3	113.4	4952.0 ug/L	4952.0 ppb	03:58:57
3	Na 589.592 Radial†	26170.0	26119.2	10257 ug/L	10257 ppb	03:58:37
3	Sr 421.552†	57488.2	56294.3	479.34 ug/L	479.34 ppb	03:58:37
3	Sc 361.383	810760.3	810760.3	96.536 %		04:00:06
3	Y 371.029	681796.8	681796.8	95.213 %		04:00:06
3	Ag 328.068†	101589.8	104982.1	532.42 ug/L	532.42 ppb	04:00:11
3	As 188.979†	903.7	956.9	517.44 ug/L	517.44 ppb	04:00:31
3	B 249.677†	17489.4	18367.1	502.52 ug/L	502.52 ppb	04:00:11
3	Ba 233.527†	53491.5	55392.6	520.58 ug/L	520.58 ppb	04:00:11
3	Be 313.107†	1242283.4	1291126.9	525.38 ug/L	525.38 ppb	04:00:06
3	Cd 226.502†	35847.7	37300.5	526.00 ug/L	526.00 ppb	04:00:11
3	Co 228.616†	19856.1	20607.6	536.44 ug/L	536.44 ppb	04:00:11
3	Cr 267.716†	38701.3	39995.2	521.76 ug/L	521.76 ppb	04:00:11
3	Cu 324.752†	160617.1	160028.3	518.86 ug/L	518.86 ppb	04:00:11
3	Mn 257.610†	392434.3	406064.9	533.07 ug/L	533.07 ppb	04:00:06
3	Mo 202.031†	5813.5	6007.9	528.65 ug/L	528.65 ppb	04:00:31
3	Ni 231.604†	16495.9	16994.2	530.32 ug/L	530.32 ppb	04:00:11
3	P 214.914†	3732.7	3698.5	2557.4 ug/L	2557.4 ppb	04:00:31
3	Pb 220.353†	3293.5	3470.5	524.64 ug/L	524.64 ppb	04:00:31
3	S 181.975 Axial†	607.8	605.2	1059.9 ug/L	1059.9 ppb	04:00:31
3	Sb 206.836†	1246.2	1264.3	556.17 ug/L	556.17 ppb	04:00:31
3	Se 196.026†	626.1	665.5	548.74 ug/L	548.74 ppb	04:00:31
3	Si 251.611†	68943.1	70891.7	2633.0 ug/L	2633.0 ppb	04:00:11
3	Sn 189.927†	2297.2	2376.5	526.94 ug/L	526.94 ppb	04:00:31
3	Ti 334.940†	291330.7	302868.7	520.92 ug/L	520.92 ppb	04:00:11
3	Tl 190.801†	1268.0	1338.5	521.07 ug/L	521.07 ppb	04:00:31
3	U 409.014†	16022.6	18632.7	546.52 ug/L	546.52 ppb	04:00:11
3	V 292.402†	63903.8	67624.6	528.44 ug/L	528.44 ppb	04:00:11
3	Zn 213.857†	43087.0	44026.8	518.19 ug/L	518.19 ppb	04:00:11
3	SiO2†	69411.9	71349.5	5686.1 ug/L	5686.1 ppb	04:00:47

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825917.3	98.340 %	1.5639			1.59%
Sc Radial	4130.1	102 %	0.4			0.37%
Y 371.029	695064.8	97.066 %	1.6095			1.66%
Y RADIAL	4424.3	97.92 %	0.524			0.54%
Ag 328.068†	103038.9	522.58 ug/L	8.617	522.58 ppb	8.617	1.65%
QC value within limits for Ag 328.068 Recovery = 104.52%						
Al 396.153Radial†	4471.9	4740.9 ug/L	33.34	4740.9 ppb	33.34	0.70%
QC value within limits for Al 396.153Radial Recovery = 94.82%						
As 188.979†	939.2	507.88 ug/L	9.000	507.88 ppb	9.000	1.77%
QC value within limits for As 188.979 Recovery = 101.58%						
B 249.677†	17990.2	492.19 ug/L	9.283	492.19 ppb	9.283	1.89%
QC value within limits for B 249.677 Recovery = 98.44%						
Ba 233.527†	54304.8	510.36 ug/L	9.052	510.36 ppb	9.052	1.77%
QC value within limits for Ba 233.527 Recovery = 102.07%						
Be 313.107†	1253974.4	510.28 ug/L	13.129	510.28 ppb	13.129	2.57%
QC value within limits for Be 313.107 Recovery = 102.06%						
Ca 317.933Radial†	2430.1	4937.4 ug/L	15.74	4937.4 ppb	15.74	0.32%

QC value within limits for Ca 317.933 Radial Recovery = 98.75%

Cd 226.502†	36565.4	515.62 ug/L	9.333	515.62 ppb	9.333	1.81%
QC value within limits for Cd 226.502 Recovery = 103.12%						
Co 228.616†	20213.7	526.19 ug/L	9.376	526.19 ppb	9.376	1.78%
QC value within limits for Co 228.616 Recovery = 105.24%						
Cr 267.716†	39132.9	510.52 ug/L	9.975	510.52 ppb	9.975	1.95%
QC value within limits for Cr 267.716 Recovery = 102.10%						
Cu 324.752†	156830.9	508.50 ug/L	9.273	508.50 ppb	9.273	1.82%
QC value within limits for Cu 324.752 Recovery = 101.70%						
Fe 238.204 Radial†	402.3	5046.4 ug/L	33.56	5046.4 ppb	33.56	0.67%
QC value within limits for Fe 238.204 Radial Recovery = 100.93%						
K 766.490 Radial†	23792.5	4743.2 ug/L	56.05	4743.2 ppb	56.05	1.18%
QC value within limits for K 766.490 Radial Recovery = 94.86%						
Mg 279.077 IEC†	116.0	5067.4 ug/L	101.00	5067.4 ppb	101.00	1.99%
QC value within limits for Mg 279.077 IEC Recovery = 101.35%						
Mn 257.610†	394314.3	517.65 ug/L	13.513	517.65 ppb	13.513	2.61%
QC value within limits for Mn 257.610 Recovery = 103.53%						
Mo 202.031†	5882.4	517.61 ug/L	9.696	517.61 ppb	9.696	1.87%
QC value within limits for Mo 202.031 Recovery = 103.52%						
Na 589.592 Radial†	26506.8	10410 ug/L	163.7	10410 ppb	163.7	1.57%
QC value within limits for Na 589.592 Radial Recovery = 104.10%						
Ni 231.604†	16627.0	518.86 ug/L	10.245	518.86 ppb	10.245	1.97%
QC value within limits for Ni 231.604 Recovery = 103.77%						
P 214.914†	3616.2	2500.2 ug/L	49.68	2500.2 ppb	49.68	1.99%
QC value within limits for P 214.914 Recovery = 100.01%						
Pb 220.353†	3402.3	514.34 ug/L	8.920	514.34 ppb	8.920	1.73%
QC value within limits for Pb 220.353 Recovery = 102.87%						
S 181.975 Axial†	593.8	1039.8 ug/L	17.75	1039.8 ppb	17.75	1.71%
QC value within limits for S 181.975 Axial Recovery = 103.98%						
Sb 206.836†	1248.6	549.13 ug/L	6.476	549.13 ppb	6.476	1.18%
QC value within limits for Sb 206.836 Recovery = 109.83%						
Se 196.026†	655.5	540.70 ug/L	7.483	540.70 ppb	7.483	1.38%
QC value within limits for Se 196.026 Recovery = 108.14%						
Si 251.611†	69536.7	2582.7 ug/L	46.78	2582.7 ppb	46.78	1.81%
QC value within limits for Si 251.611 Recovery = 103.31%						
Sn 189.927†	2331.1	516.88 ug/L	8.724	516.88 ppb	8.724	1.69%
QC value within limits for Sn 189.927 Recovery = 103.38%						
Sr 421.552†	56785.4	483.52 ug/L	5.986	483.52 ppb	5.986	1.24%
QC value within limits for Sr 421.552 Recovery = 96.70%						
Ti 334.940†	296756.5	510.40 ug/L	9.444	510.40 ppb	9.444	1.85%
QC value within limits for Ti 334.940 Recovery = 102.08%						
Tl 190.801†	1310.6	510.19 ug/L	9.424	510.19 ppb	9.424	1.85%
QC value within limits for Tl 190.801 Recovery = 102.04%						
U 409.014†	18276.5	536.06 ug/L	9.120	536.06 ppb	9.120	1.70%
QC value within limits for U 409.014 Recovery = 107.21%						
V 292.402†	66192.4	517.24 ug/L	9.894	517.24 ppb	9.894	1.91%
QC value within limits for V 292.402 Recovery = 103.45%						
Zn 213.857†	43147.8	507.84 ug/L	9.379	507.84 ppb	9.379	1.85%
QC value within limits for Zn 213.857 Recovery = 101.57%						
SiO2†	69990.5	5577.8 ug/L	96.40	5577.8 ppb	96.40	1.73%
QC value within limits for SiO2 Recovery = 104.31%						

All analyte(s) passed QC.

Sequence No.: 99
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/26/2010 04:02:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4103.0	4103.0	102 %		04:04:49
1	Y RADIAL	4429.0	4429.0	98.03 %		04:04:49
1	Al 396.153Radial†	-69.2	11.6	12.391 ug/L	12.391 ppb	04:05:09
1	Ca 317.933Radial†	25.7	8.1	16.491 ug/L	16.491 ppb	04:05:09
1	Fe 238.204 Radial†	11.2	2.0	25.157 ug/L	25.157 ppb	04:05:09
1	K 766.490 Radial†	2423.6	-420.5	-83.969 ug/L	-83.969 ppb	04:04:49
1	Mg 279.077 IEC†	1.2	0.4	19.429 ug/L	19.429 ppb	04:05:09
1	Na 589.592 Radial†	-356.4	110.5	43.405 ug/L	43.405 ppb	04:04:49
1	Sr 421.552†	78.8	7.4	0.0632 ug/L	0.0632 ppb	04:04:49
1	Sc 361.383	810405.3	810405.3	96.493 %		04:06:06
1	Y 371.029	690733.9	690733.9	96.461 %		04:06:06
1	Ag 328.068†	84.6	-165.7	-0.8329 ug/L	-0.8329 ppb	04:06:06
1	As 188.979†	-28.6	-8.8	-4.7262 ug/L	-4.7262 ppb	04:06:26
1	B 249.677†	-355.5	-118.2	-3.2540 ug/L	-3.2540 ppb	04:06:26
1	Ba 233.527†	15.2	-2.7	-0.0246 ug/L	-0.0246 ppb	04:06:26
1	Be 313.107†	-4534.0	-436.1	-0.1768 ug/L	-0.1768 ppb	04:06:06
1	Cd 226.502†	-186.1	-26.4	-0.3744 ug/L	-0.3744 ppb	04:06:26
1	Co 228.616†	-43.7	-6.4	-0.1659 ug/L	-0.1659 ppb	04:06:26
1	Cr 267.716†	76.3	-15.8	-0.2062 ug/L	-0.2062 ppb	04:06:26
1	Cu 324.752†	6528.8	413.3	1.3378 ug/L	1.3378 ppb	04:06:06
1	Mn 257.610†	771.3	346.9	0.4568 ug/L	0.4568 ppb	04:06:26
1	Mo 202.031†	17.6	4.1	0.3616 ug/L	0.3616 ppb	04:06:26
1	Ni 231.604†	76.5	-14.3	-0.4462 ug/L	-0.4462 ppb	04:06:26
1	P 214.914†	190.8	29.5	20.920 ug/L	20.920 ppb	04:06:26
1	Pb 220.353†	-39.3	18.1	2.7240 ug/L	2.7240 ppb	04:06:26
1	S 181.975 Axial†	31.0	7.7	13.578 ug/L	13.578 ppb	04:06:26
1	Sb 206.836†	33.0	7.5	3.2310 ug/L	3.2310 ppb	04:06:26
1	Se 196.026†	-14.0	2.5	2.0417 ug/L	2.0417 ppb	04:06:26
1	Si 251.611†	633.0	130.5	4.8554 ug/L	4.8554 ppb	04:06:26
1	Sn 189.927†	7.9	5.1	1.1313 ug/L	1.1313 ppb	04:06:26
1	Ti 334.940†	-990.2	57.2	0.0961 ug/L	0.0961 ppb	04:06:06
1	Tl 190.801†	-26.5	-2.4	-0.9107 ug/L	-0.9107 ppb	04:06:26
1	U 409.014†	-1747.5	224.1	6.5928 ug/L	6.5928 ppb	04:06:06
1	V 292.402†	-1364.3	13.7	0.1196 ug/L	0.1196 ppb	04:06:06
1	Zn 213.857†	755.5	176.6	2.0948 ug/L	2.0948 ppb	04:06:26
1	SiO2†	711.9	184.4	14.726 ug/L	14.726 ppb	04:07:37
2	Sc Radial	4119.6	4119.6	102 %		04:05:14
2	Y RADIAL	4419.9	4419.9	97.83 %		04:05:14
2	Al 396.153Radial†	-73.2	8.0	8.4701 ug/L	8.4701 ppb	04:05:34
2	Ca 317.933Radial†	26.3	8.5	17.345 ug/L	17.345 ppb	04:05:34
2	Fe 238.204 Radial†	10.2	1.0	12.854 ug/L	12.854 ppb	04:05:34
2	K 766.490 Radial†	2373.0	-479.7	-95.783 ug/L	-95.783 ppb	04:05:14
2	Mg 279.077 IEC†	3.8	3.0	132.47 ug/L	132.47 ppb	04:05:34
2	Na 589.592 Radial†	-344.0	124.1	48.728 ug/L	48.728 ppb	04:05:14
2	Sr 421.552†	62.2	-9.1	-0.0775 ug/L	-0.0775 ppb	04:05:14
2	Sc 361.383	824456.9	824456.9	98.167 %		04:06:31
2	Y 371.029	701903.6	701903.6	98.021 %		04:06:31
2	Ag 328.068†	38.7	-214.0	-1.0742 ug/L	-1.0742 ppb	04:06:31
2	As 188.979†	-26.9	-6.6	-3.5125 ug/L	-3.5125 ppb	04:06:51
2	B 249.677†	-382.4	-139.4	-3.8340 ug/L	-3.8340 ppb	04:06:51
2	Ba 233.527†	17.6	-0.6	-0.0040 ug/L	-0.0040 ppb	04:06:51
2	Be 313.107†	-4623.6	-447.2	-0.1816 ug/L	-0.1816 ppb	04:06:31
2	Cd 226.502†	-172.7	-9.6	-0.1361 ug/L	-0.1361 ppb	04:06:51
2	Co 228.616†	-47.0	-9.0	-0.2320 ug/L	-0.2320 ppb	04:06:51
2	Cr 267.716†	100.2	7.1	0.0936 ug/L	0.0936 ppb	04:06:51
2	Cu 324.752†	6661.0	432.6	1.4027 ug/L	1.4027 ppb	04:06:31
2	Mn 257.610†	932.9	497.9	0.6491 ug/L	0.6491 ppb	04:06:51
2	Mo 202.031†	20.1	6.3	0.5548 ug/L	0.5548 ppb	04:06:51
2	Ni 231.604†	78.8	-13.3	-0.4160 ug/L	-0.4160 ppb	04:06:51

2	P 214.914†	199.6	35.1	24.947 ug/L	24.947 ppb	04:06:51
2	Pb 220.353†	-51.3	6.5	0.9832 ug/L	0.9832 ppb	04:06:51
2	S 181.975 Axial†	29.3	5.5	9.6468 ug/L	9.6468 ppb	04:06:51
2	Sb 206.836†	37.1	11.2	4.7850 ug/L	4.7850 ppb	04:06:51
2	Se 196.026†	-21.0	-4.4	-3.4741 ug/L	-3.4741 ppb	04:06:51
2	Si 251.611†	674.9	162.1	6.0268 ug/L	6.0268 ppb	04:06:51
2	Sn 189.927†	12.0	9.1	2.0238 ug/L	2.0238 ppb	04:06:51
2	Ti 334.940†	-1067.0	-3.6	-0.0153 ug/L	-0.0153 ppb	04:06:31
2	Tl 190.801†	-27.2	-2.7	-1.0225 ug/L	-1.0225 ppb	04:06:51
2	U 409.014†	-1951.5	47.2	1.3865 ug/L	1.3865 ppb	04:06:31
2	V 292.402†	-1343.4	59.1	0.4665 ug/L	0.4665 ppb	04:06:31
2	Zn 213.857†	756.9	164.6	1.9547 ug/L	1.9547 ppb	04:06:51
2	SiO2†	771.8	232.9	18.591 ug/L	18.591 ppb	04:07:57
3	Sc Radial	4075.7	4075.7	101 %		04:05:39
3	Y RADIAL	4373.7	4373.7	96.80 %		04:05:39
3	Al 396.153Radial†	-57.6	22.7	24.115 ug/L	24.115 ppb	04:05:59
3	Ca 317.933Radial†	28.3	10.8	22.024 ug/L	22.024 ppb	04:05:59
3	Fe 238.204 Radial†	7.3	-1.8	-22.266 ug/L	-22.266 ppb	04:05:59
3	K 766.490 Radial†	2417.2	-410.9	-82.056 ug/L	-82.056 ppb	04:05:39
3	Mg 279.077 IEC†	2.7	1.9	84.319 ug/L	84.319 ppb	04:05:59
3	Na 589.592 Radial†	-400.9	64.1	25.168 ug/L	25.168 ppb	04:05:39
3	Sr 421.552†	32.8	-37.6	-0.3201 ug/L	-0.3201 ppb	04:05:39
3	Sc 361.383	820472.8	820472.8	97.692 %		04:06:57
3	Y 371.029	699296.6	699296.6	97.657 %		04:06:57
3	Ag 328.068†	228.1	-19.9	-0.1089 ug/L	-0.1089 ppb	04:06:57
3	As 188.979†	-16.4	4.0	2.1457 ug/L	2.1457 ppb	04:07:17
3	B 249.677†	-373.8	-132.5	-3.6374 ug/L	-3.6374 ppb	04:07:17
3	Ba 233.527†	33.6	15.9	0.1499 ug/L	0.1499 ppb	04:07:17
3	Be 313.107†	-4525.9	-370.2	-0.1503 ug/L	-0.1503 ppb	04:06:57
3	Cd 226.502†	-168.9	-6.4	-0.0881 ug/L	-0.0881 ppb	04:07:17
3	Co 228.616†	-49.6	-11.9	-0.3077 ug/L	-0.3077 ppb	04:07:17
3	Cr 267.716†	93.8	1.0	0.0099 ug/L	0.0099 ppb	04:07:17
3	Cu 324.752†	6586.0	388.8	1.2570 ug/L	1.2570 ppb	04:06:57
3	Mn 257.610†	1252.9	830.1	1.0834 ug/L	1.0834 ppb	04:07:17
3	Mo 202.031†	21.6	7.9	0.6907 ug/L	0.6907 ppb	04:07:17
3	Ni 231.604†	70.2	-21.8	-0.6804 ug/L	-0.6804 ppb	04:07:17
3	P 214.914†	196.2	32.6	23.240 ug/L	23.240 ppb	04:07:17
3	Pb 220.353†	-48.6	9.1	1.3748 ug/L	1.3748 ppb	04:07:17
3	S 181.975 Axial†	31.7	8.1	14.216 ug/L	14.216 ppb	04:07:17
3	Sb 206.836†	27.1	1.1	0.5003 ug/L	0.5003 ppb	04:07:17
3	Se 196.026†	-22.7	-6.3	-5.0771 ug/L	-5.0771 ppb	04:07:17
3	Si 251.611†	851.4	346.1	12.877 ug/L	12.877 ppb	04:07:17
3	Sn 189.927†	11.1	8.2	1.8315 ug/L	1.8315 ppb	04:07:17
3	Ti 334.940†	-1052.6	5.9	0.0041 ug/L	0.0041 ppb	04:06:57
3	Tl 190.801†	-23.0	1.5	0.5780 ug/L	0.5780 ppb	04:07:17
3	U 409.014†	-1829.9	162.0	4.7701 ug/L	4.7701 ppb	04:06:57
3	V 292.402†	-1316.9	79.5	0.6365 ug/L	0.6365 ppb	04:06:57
3	Zn 213.857†	777.0	188.9	2.2498 ug/L	2.2498 ppb	04:07:17
3	SiO2†	660.2	122.4	9.7622 ug/L	9.7622 ppb	04:08:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	818445.0	97.451 %	0.8623			0.88%
Sc Radial	4099.5	102 %	0.5			0.54%
Y 371.029	697311.4	97.380 %	0.8160			0.84%
Y RADIAL	4407.5	97.55 %	0.657			0.67%
Ag 328.068†	-133.2	-0.6720 ug/L	0.50236	-0.6720 ppb	0.50236	74.75%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.1	14.992 ug/L	8.1404	14.992 ppb	8.1404	54.30%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.8	-2.0310 ug/L	3.66769	-2.0310 ppb	3.66769	180.58%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-130.1	-3.5751 ug/L	0.29500	-3.5751 ppb	0.29500	8.25%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.2	0.0404 ug/L	0.09533	0.0404 ppb	0.09533	235.81%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-417.8	-0.1696 ug/L	0.01688	-0.1696 ppb	0.01688	9.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.2	18.620 ug/L	2.9787	18.620 ppb	2.9787	16.00%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	-14.1	-0.1996 ug/L	0.15334	-0.1996 ppb	0.15334	76.84%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-9.1	-0.2352 ug/L	0.07096	-0.2352 ppb	0.07096	30.17%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-2.6	-0.0342 ug/L	0.15467	-0.0342 ppb	0.15467	452.14%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	411.6	1.3325 ug/L	0.07299	1.3325 ppb	0.07299	5.48%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.4	5.2484 ug/L	24.60943	5.2484 ppb	24.60943	468.89%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-437.0	-87.270 ug/L	7.4347	-87.270 ppb	7.4347	8.52%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	1.8	78.741 ug/L	56.7283	78.741 ppb	56.7283	72.04%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	558.3	0.7298 ug/L	0.32100	0.7298 ppb	0.32100	43.98%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	6.1	0.5357 ug/L	0.16537	0.5357 ppb	0.16537	30.87%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	99.6	39.100 ug/L	12.3556	39.100 ppb	12.3556	31.60%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-16.5	-0.5142 ug/L	0.14472	-0.5142 ppb	0.14472	28.15%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	32.4	23.036 ug/L	2.0216	23.036 ppb	2.0216	8.78%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	11.2	1.6940 ug/L	0.91325	1.6940 ppb	0.91325	53.91%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	7.1	12.480 ug/L	2.4745	12.480 ppb	2.4745	19.83%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	6.6	2.8388 ug/L	2.16907	2.8388 ppb	2.16907	76.41%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-2.8	-2.1698 ug/L	3.73430	-2.1698 ppb	3.73430	172.10%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	212.9	7.9198 ug/L	4.33300	7.9198 ppb	4.33300	54.71%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	7.5	1.6622 ug/L	0.46968	1.6622 ppb	0.46968	28.26%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-13.1	-0.1114 ug/L	0.19389	-0.1114 ppb	0.19389	174.00%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	19.8	0.0283 ug/L	0.05954	0.0283 ppb	0.05954	210.39%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-1.2	-0.4518 ug/L	0.89350	-0.4518 ppb	0.89350	197.78%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	144.4	4.2498 ug/L	2.64186	4.2498 ppb	2.64186	62.16%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	50.7	0.4075 ug/L	0.26343	0.4075 ppb	0.26343	64.64%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	176.7	2.0998 ug/L	0.14760	2.0998 ppb	0.14760	7.03%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		179.9	14.360 ug/L	4.4257	14.360 ppb	4.4257	30.82%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, April 15, 2010 15:34:04

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.8271

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		962.6		962.632		25.581		2.7
Mg	24.0		4932.3		4932.252		141.880		2.9
Co	58.9		21185.7		21185.700		324.705		1.5
Rh	102.9		78833.9		78833.928		561.481		0.7
In	114.9		98397.9		98397.922		603.254		0.6
Pb	208.0		94752.2		94752.198		509.276		0.5
[> Ba	137.9		96943.5		96943.502		556.118		0.6
[Ba++	69.0		1430.1		0.015		0.000		2.2
[> Ce	139.9		126203.4		126203.410		476.222		0.4
[CeO	155.9		3432.9		0.027		0.000		1.6
Bkgd	220.0		1.5		1.500		1.173		78.2

Current Optimization File Data

Current Value	Description
1.09	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1975.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.5	777.7
Co	59	13	5.8	28478.4
In	115	13	6.3	135586.7

ICPMS#3 Instrument Tuning Report

File Name: 100415.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	587	2060	0.632
Be	9.0	9.0	2072	2040	0.658
Mg	24.0	24.0	5708	2110	0.581
Mg	25.0	25.0	5919	2020	0.650
Mg	26.0	26.0	6224	2140	0.631
Co	58.9	58.9	14206	2115	0.630
Rh	102.9	102.9	24906	2165	0.645
In	114.9	114.9	27819	2180	0.642
Ce	139.9	139.9	33907	2220	0.612
Pb	206.0	206.0	49991	2280	0.619
Pb	207.0	207.0	50284	2310	0.641
Pb	208.0	207.9	50462	2300	0.627
U	238.1	238.1	57839	2340	0.648

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, April 15, 2010 19:00:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\Blank.019

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175	ug/L		283078	
[U	238	ug/L		403	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175				
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Thursday, April 15, 2010 19:00:33

Page 1

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, April 15, 2010 19:02:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\Standard 1.020

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		276168	276167.937
[	U	238	10.000 ug/L	0.946	191082	0.691

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, April 15, 2010 19:04:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\Standard 2.021

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		283667	283666.890
[U 238	99.928	ug/L	1.467	1826074	6.438

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, April 15, 2010 19:06:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 1.022

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		278336	278336.222
[	U	238	ug/L	0.766	965430	3.467

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		98.3		
[	U	238	107.643			

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 1

Report Date/Time: Thursday, April 15, 2010 19:07:02

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, April 15, 2010 19:09:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 2.023

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		279239	279238.707
[U	238	0.006	ug/L	8.234	514	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			98.6		
[U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, April 15, 2010 19:11:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 3.024

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		271303	271302.740
[	U	238	0.197 ug/L	1.875	3830	0.013

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.8		
[U	238	98.501			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, April 15, 2010 19:13:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 4.025

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		200410	200409.920
[U 238	-0.012	ug/L	4.543	131	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		70.8			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
Lu 175 Int Std for Q(Lu		175

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, April 15, 2010 19:15:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 5.026

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		199033	199033.278
[	U	238	ug/L	1.240	286884	1.440

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		70.3		
[	U	238	111.783			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
Lu 175 Int Std for Q(Lu		175

QC Action

QC Action Line: Continue

Sample ID: QC Std 5

Report Date/Time: Thursday, April 15, 2010 19:15:49

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 15, 2010 19:17:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 6.027

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		275946	275946.018
[	U	238	51.727 ug/L	1.468	919754	3.332

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.5		
[U	238	103.454			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Thursday, April 15, 2010 19:18:00

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 15, 2010 19:20:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 7.028

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		276986	276986.016
[	U	238	-0.008 ug/L	45.508	252	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.8		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Thursday, April 15, 2010 19:22:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 10.029

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		205699	205698.843
[	U	238	5333.154 ug/L	1.705	70669987	343.580

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		72.7		
[	U	238	106.663			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
Lu 175 Int Std for QCLu		175

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Thursday, April 15, 2010 19:24:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 11.030

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		274576	274575.739
[U 238	52.760	ug/L	1.500	933321	3.399

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		97.0			
[U 238	105.519				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Thursday, April 15, 2010 19:26:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 12.031

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		269336	269336.255
[	U	238	ug/L	5.255	1260	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.1		
[	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#3 - Summary Report

Sample ID: 1202082287

Sample Date/Time: Thursday, April 15, 2010 19:28:52

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\1202082287.032

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		272205	272204.822
[	U	238	0.117 ug/L	1.503	2435	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.2		
[	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#3 - Summary Report

Sample ID: 1202082288

Sample Date/Time: Thursday, April 15, 2010 19:31:03

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 969760|40|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\1202082288.033

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		272603	272602.679
[U	238	0.511	ug/L	1.158	9356	0.033

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			96.3		
[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#3 - Summary Report

Sample ID: 247907001
Sample Date/Time: Thursday, April 15, 2010 19:33:14
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 969760|2|prb
Method File: c:\elandata\Method\only.mth
Dataset File: C:\elandata\Dataset\100415\247907001.034

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		259567	259566.804
[U 238	40.954	ug/L	0.781	685147	2.638

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			91.7		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054517

Sample Date/Time: Thursday, April 15, 2010 19:35:26

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\1202054517.035

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		262193	262192.710
[	U	238	34.352 ug/L	1.040	580525	2.213

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		92.6		
[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#3 - Summary Report

Sample ID: 1202054519

Sample Date/Time: Thursday, April 15, 2010 19:37:39

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\1202054519.036

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		257997	257996.545
[U 238	60.473	ug/L	0.645	1005501	3.896

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			91.1		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054520

Sample Date/Time: Thursday, April 15, 2010 19:39:52

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\1202054520.037

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		256099	256098.990
[	U	238	49.894 ug/L	1.065	823529	3.214

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		90.5		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054518

Sample Date/Time: Thursday, April 15, 2010 19:42:06

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 969760|10|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\1202054518.038

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		272544	272543.873
[	U	238	ug/L	1.693	146071	0.535

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202054518

Report Date/Time: Thursday, April 15, 2010 19:42:19

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ICPMS#3 - Summary Report

Sample ID: 247907002

Sample Date/Time: Thursday, April 15, 2010 19:44:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\247907002.039

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		255079	255078.750
[U 238	133.573	ug/L	3.276	2193313	8.605

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			90.1		
[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#3 - Summary Report

Sample ID: 247907003

Sample Date/Time: Thursday, April 15, 2010 19:46:30

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\247907003.040

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		236793	236792.804
[	U	238	3.865 ug/L	0.376	59294	0.249

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[>	Lu	175				83.6					
[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#3 - Summary Report

Sample ID: 247907004

Sample Date/Time: Thursday, April 15, 2010 19:48:42

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760[2]prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907004.041

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		261875	261874.514
[	U	238	474.488 ug/L	1.231	8003886	30.568

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		92.5		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247907004

Report Date/Time: Thursday, April 15, 2010 19:48:54

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ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 15, 2010 19:50:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 6.042

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		274014	274013.941
[	U	238	53.413 ug/L	1.204	943051	3.441

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.8		
[	U	238	106.827			

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: Thursday, April 15, 2010 19:51:05

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ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 15, 2010 19:53:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 7.043

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		275294	275293.571
[U	238	0.004	ug/L	52.546	472	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			97.3		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Thursday, April 15, 2010 19:53:19

Page 1

ICPMS#3 - Summary Report

Sample ID: 247907005

Sample Date/Time: Thursday, April 15, 2010 19:55:20

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907005.044

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		258519	258519.103
[	U	238	8.273 ug/L	0.728	138139	0.533

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		91.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247907006

Sample Date/Time: Thursday, April 15, 2010 19:57:33

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760[2]prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907006.045

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		271209	271209.352
[	U	238	4.489 ug/L	0.774	78818	0.289

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.8		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247907007

Sample Date/Time: Thursday, April 15, 2010 19:59:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907007.046

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		277175	277175.159
[	U	238	5.567 ug/L	0.680	99811	0.359

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.9		
[	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#3 - Summary Report

Sample ID: 247907008

Sample Date/Time: Thursday, April 15, 2010 20:02:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907008.047

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		253271	253270.965
[U	238	7.186	ug/L	0.308	117610	0.463

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			89.5		
[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#3 - Summary Report

Sample ID: 247907009

Sample Date/Time: Thursday, April 15, 2010 20:04:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\247907009.048

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		259395	259395.315
[	U	238	2.107 ug/L	0.280	35575	0.136

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		91.6		
[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#3 - Summary Report

Sample ID: 247907010

Sample Date/Time: Thursday, April 15, 2010 20:06:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907010.049

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		231499	231499.023
[	U	238	758.654 ug/L	0.398	11314351	48.875

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		81.8		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247907010

Report Date/Time: Thursday, April 15, 2010 20:06:38

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ICPMS#3 - Summary Report

Sample ID: 247907011

Sample Date/Time: Thursday, April 15, 2010 20:08:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907011.050

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		263373	263373.349
[U 238	110.860	ug/L	0.938	1881036	7.142

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		93.0			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247907012

Sample Date/Time: Thursday, April 15, 2010 20:10:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907012.051

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		266764	266763.918
[	U	238	54.168 ug/L	0.985	931360	3.490

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		94.2		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247907013

Sample Date/Time: Thursday, April 15, 2010 20:13:05

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907013.052

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		256794	256793.617
[	U	238	ug/L	1.094	63568	0.246

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		90.7		
[	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#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 15, 2010 20:15:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 6.053

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		276038	276038.372
[U	238	53.090	ug/L	0.391	944547	3.420

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			97.5		
[U	238	106.181				

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: Thursday, April 15, 2010 20:15:29

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ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 15, 2010 20:17:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 7.054

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		265874	265874.378
[U	238	0.003	ug/L	33.009	433	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			93.9		
[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#3 - Summary Report

Sample ID: 247907014

Sample Date/Time: Thursday, April 15, 2010 20:19:45

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\247907014.055

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		255961	255961.227
[U	238	4.719	ug/L	1.279	78198	0.304

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			90.4		
[U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247907014

Report Date/Time: Thursday, April 15, 2010 20:19:58

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ICPMS#3 - Summary Report

Sample ID: 247907015

Sample Date/Time: Thursday, April 15, 2010 20:22:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907015.056

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		270894	270894.140
[	U	238	ug/L	0.778	237644	0.876

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.7		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247907016

Sample Date/Time: Thursday, April 15, 2010 20:24:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\247907016.057

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		248530	248530.442
[U 238	5.722	ug/L	1.228	91961	0.369

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			87.8		
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247907017

Sample Date/Time: Thursday, April 15, 2010 20:26:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 969760|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\247907017.058

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175	ug/L		252573	252572.752
[	U	238	60.663 ug/L	1.103	987442	3.908

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Lu	175		89.2		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 15, 2010 20:28:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 6.059

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		267416	267416.029
[	U	238	ug/L	0.444	931997	3.484

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		94.5		
[	U	238	108.163			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 15, 2010 20:30:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100415\QC Std 7.060

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		262443	262443.088
[U 238	-0.000	ug/L	1838.957	373	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		92.7			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 24, 2010 02:25:40

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.1799

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		1960.5	1960.535		50.160	2.6
Mg	24.0		18238.6	18238.636		157.642	0.9
Co	58.9		26360.7	26360.699		121.159	0.5
Rh	102.9		49939.1	49939.138		319.670	0.6
In	114.9		59742.3	59742.266		511.459	0.9
Pb	208.0		29263.3	29263.344		310.071	1.1
[> Ba	137.9		51164.7	51164.674		342.892	0.7
[Ba++	69.0		1582.2	0.031		0.001	2.3
[> Ce	139.9		66984.3	66984.282		548.113	0.8
[CeO	155.9		980.7	0.015		0.000	2.4
Bkgd	220.0		29.5	29.500		3.162	10.7

Current Optimization File Data

Current Value	Description
0.83	Nebulizer Gas Flow
8.75	Lens Voltage
1450.00	ICP RF Power
-1800.00	Analog Stage Voltage
900.00	Pulse Stage Voltage
30.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	7.0	2131.8
Co	59	21	7.5	26323.6
In	115	21	8.3	56990.8

ICPMS #6 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	591	2080	0.650
Be	9.0	9.0	2026	2080	0.701
Mg	24.0	23.9	5678	2120	0.660
Mg	25.0	25.0	5922	2080	0.759
Mg	26.0	26.0	6155	2120	0.730
Co	58.9	59.0	14164	2170	0.668
Rh	102.9	103.0	24873	2230	0.725
In	114.9	114.9	27778	2260	0.713
Ce	139.9	140.0	33862	2280	0.769
Pb	206.0	205.9	49936	2420	0.779
Pb	207.0	207.0	50147	2385	0.743
Pb	208.0	208.0	50439	2430	0.734
U	238.1	238.0	57729	2470	0.727

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, March 24, 2010 10:04:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\Blank.114

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L			10
[> Sc	45		ug/L		1081185	
[Ni	60		ug/L		210	
[> Ge	74		ug/L		185627	
[As	75		ug/L		529	
[Se	77		ug/L		9851	
[Se	82		ug/L		-24	
[Kr	83		ug/L		134	
[> Lu	175		ug/L		106263	
[Tl	205		ug/L		174	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Simple Linear	
Ni	60	Simple Linear	
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Lu	175	Linear Thru Zero	
Tl	205	Simple Linear	

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

Sample ID: Blank

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, March 24, 2010 10:08:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\Standard 1.115

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	10.000	ug/L	3.755	2046	0.002
[> Sc	45		ug/L		1087706	1087705.633
[Ni	60	10.000	ug/L	2.404	5936	0.005
[> Ge	74		ug/L		187933	187932.724
[As	75	10.000	ug/L	3.721	6554	0.032
[Se	77		ug/L		12303	0.012
[Se	82	10.000	ug/L	4.832	448	0.003
[Kr	83		ug/L		115	-0.000
[> Lu	175		ug/L		107241	107241.468
[Tl	205	10.000	ug/L	1.289	37073	0.344

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

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

Sample ID: Standard 1

Report Date/Time: Wednesday, March 24, 2010 10:09:18

ICPMS#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, March 24, 2010 10:12:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniaset1.mth

Dataset File: C:\elandata\Dataset\100323\Standard 2.116

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	99.990 ug/L	0.452	20171	0.019
[>	Sc	45	ug/L		1087599	1087598.968
[	Ni	60	99.996 ug/L	1.900	57228	0.052
[>	Ge	74	ug/L		182922	182922.445
[	As	75	99.974 ug/L	1.287	57626	0.312
[	Se	77	ug/L		13343	0.020
[	Se	82	99.991 ug/L	0.551	4536	0.025
[	Kr	83	ug/L		127	-0.000
[>	Lu	175	ug/L		107072	107072.162
[	Tl	205	99.984 ug/L	0.897	362778	3.387

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 % 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

Sample ID: Standard 2

Report Date/Time: Wednesday, March 24, 2010 10:13:18

ICPMS#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, March 24, 2010 10:16:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 1.117

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	52.030	ug/L	2.096	10461	0.010
>	Sc 45		ug/L		1083876	1083876.288
[	Ni 60	54.382	ug/L	1.585	31106	0.029
>	Ge 74		ug/L		186564	186563.509
[	As 75	52.484	ug/L	1.734	31108	0.164
|	Se 77		ug/L		11271	0.007
|	Se 82	51.377	ug/L	1.236	2365	0.013
[	Kr 83		ug/L		136	0.000
>	Lu 175		ug/L		108002	108002.192
[	Tl 205	51.641	ug/L	1.507	189064	1.749

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 % Dil	Duplicate Rel. % Difference
[	Be 9	104.060				
>	Sc 45		100.2			
[	Ni 60	108.765				
>	Ge 74		100.5			
|	As 75	104.968				
|	Se 77					
|	Se 82	102.754				
[	Kr 83					
>	Lu 175		101.6			
[	Tl 205	103.282				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, March 24, 2010 10:20:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 2.118

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.010	ug/L	214.154	8	-0.000
[> Sc	45		ug/L		1074731	1074731.128
[Ni	60	-0.059	ug/L	11.679	175	-0.000
[> Ge	74		ug/L		183267	183267.436
[As	75	0.604	ug/L	216.695	876	0.002
[Se	77		ug/L		8453	-0.007
[Se	82	-0.015	ug/L	2144.973	-25	-0.000
[Kr	83		ug/L		122	-0.000
[> Lu	175		ug/L		106233	106233.259
[Tl	205	0.077	ug/L	1.110	452	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
[Be	9										
[> Sc	45				99.4						
[Ni	60										
[> Ge	74				98.7						
[As	75										
[Se	77										
[Se	82										
[Kr	83										
[> Lu	175				100.0						
[Tl	205										

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Wednesday, March 24, 2010 10:21:24

ICPMS#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, March 24, 2010 10:24:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 3.119

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.508	ug/L	11.348	113	0.000
[> Sc	45		ug/L		1092120	1092119.716
[Ni	60	2.251	ug/L	2.205	1500	0.001
[> Ge	74		ug/L		187040	187040.152
[As	75	6.232	ug/L	7.801	4176	0.019
[Se	77		ug/L		10246	0.002
[Se	82	5.925	ug/L	0.688	252	0.001
[Kr	83		ug/L		119	-0.000
[> Lu	175		ug/L		107617	107617.305
[Tl	205	1.132	ug/L	0.914	4302	0.038

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9	101.638					
[> Sc	45		101.0				
[Ni	60	112.536					
[> Ge	74		100.8				
[As	75	124.648					
[Se	77						
[Se	82	118.510					
[Kr	83						
[> Lu	175		101.3				
[Tl	205	113.177					

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 3

Report Date/Time: Wednesday, March 24, 2010 10:25:25

ICPMS#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, March 24, 2010 10:28:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 4.120

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.098 ug/L	12.532	29	0.000
[>	Sc	45	ug/L		1045932	1045932.168
[	Ni	60	2.859 ug/L	3.997	1771	0.001
[>	Ge	74	ug/L		176878	176878.163
[	As	75	0.209 ug/L	328.193	626	0.001
[	Se	77	ug/L		8693	-0.004
[	Se	82	-1.125 ug/L	43.846	-73	-0.000
[	Kr	83	ug/L		196	0.000
[>	Lu	175	ug/L		105470	105470.344
[	Tl	205	0.015 ug/L	36.435	226	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9				
[>	Sc	45		96.7		
[	Ni	60	105.875			
[>	Ge	74		95.3		
[	As	75				
[	Se	77				
[	Se	82				
[	Kr	83				
[>	Lu	175		99.3		
[	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#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, March 24, 2010 10:32:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 5.121

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	22.311 ug/L	1.085	4355	0.004
[>	Sc	45	ug/L		1050352	1050352.150
[	Ni	60	23.961 ug/L	1.081	13397	0.013
[>	Ge	74	ug/L		179493	179493.434
[	As	75	22.130 ug/L	4.354	12914	0.069
[	Se	77	ug/L		9034	-0.003
[	Se	82	21.989 ug/L	5.011	960	0.005
[	Kr	83	ug/L		190	0.000
[>	Lu	175	ug/L		104921	104921.323
[	Tl	205	20.192 ug/L	2.738	71926	0.684

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 % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	111.557				
[>	Sc	45		97.1			
[	Ni	60	105.557				
[>	Ge	74		96.7			
[	As	75	110.652				
[	Se	77					
[	Se	82	109.944				
[	Kr	83					
[>	Lu	175		98.7			
[	Tl	205	100.962				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 10:36:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 6.122

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	51.329	ug/L	1.578	10143	0.010
[>	Sc 45		ug/L		1065080	1065080.098
[	Ni 60	54.314	ug/L	2.411	30529	0.028
[>	Ge 74		ug/L		184458	184457.898
[	As 75	51.208	ug/L	1.350	30019	0.160
[	Se 77		ug/L		9323	-0.003
[	Se 82	51.485	ug/L	1.829	2344	0.013
[	Kr 83		ug/L		138	0.000
[>	Lu 175		ug/L		106271	106271.214
[	Tl 205	51.927	ug/L	0.556	187085	1.759

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be 9	102.658				
[>	Sc 45		98.5			
[	Ni 60	108.628				
[>	Ge 74		99.4			
[	As 75	102.417				
[	Se 77					
[	Se 82	102.969				
[	Kr 83					
[>	Lu 175		100.0			
[	Tl 205	103.854				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 10:40:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 7.123

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.019	ug/L	40.611	7	-0.000
[> Sc	45		ug/L		1107142	1107142.081
[Ni	60	-0.090	ug/L	21.291	162	-0.000
[> Ge	74		ug/L		191780	191780.127
[As	75	0.169	ug/L	67.909	648	0.001
[Se	77		ug/L		6667	-0.018
[Se	82	-0.209	ug/L	189.178	-35	-0.000
[Kr	83		ug/L		130	-0.000
[> Lu	175		ug/L		111778	111777.783
[Tl	205	0.077	ug/L	11.906	475	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		102.4			
[Ni	60					
[> Ge	74		103.3			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		105.2			
[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

Sample ID: QC Std 7

Report Date/Time: Wednesday, March 24, 2010 10:41:35

ICPMS#6 - Summary Report

Sample ID: 1202054516

Sample Date/Time: Wednesday, March 24, 2010 10:44:59

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\1202054516.124

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.024	ug/L	30.736	6	-0.000
> Sc	45		ug/L		1107391	1107390.789
[Ni	60	0.483	ug/L	9.510	495	0.000
> Ge	74		ug/L		188889	188888.795
[As	75	0.444	ug/L	55.150	800	0.001
| Se	77		ug/L		5863	-0.022
| Se	82	2.109	ug/L	23.413	74	0.001
[Kr	83		ug/L		114	-0.000
> Lu	175		ug/L		110055	110054.736
[Tl	205	0.033	ug/L	15.943	304	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dif	Duplicate Rel. % Difference
[Be	9					
> Sc	45		102.4			
[Ni	60					
> Ge	74		101.8			
| As	75					
| Se	77					
| Se	82					
[Kr	83					
> Lu	175		103.6			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202054516

Report Date/Time: Wednesday, March 24, 2010 10:45:37

ICPMS#6 - Summary Report

Sample ID: 1202054521

Sample Date/Time: Wednesday, March 24, 2010 10:49:01

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 958059|40|rmj

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\1202054521.125

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	22.742	ug/L	2.977	4687	0.004
[> Sc	45		ug/L		1109698	1109698.174
[Ni	60	41.670	ug/L	1.954	24454	0.022
[> Ge	74		ug/L		191496	191495.685
[As	75	29.991	ug/L	1.318	18480	0.094
[Se	77		ug/L		10529	0.002
[Se	82	81.181	ug/L	1.464	3850	0.020
[Kr	83		ug/L		122	-0.000
[> Lu	175		ug/L		112189	112189.311
[Tl	205	34.178	ug/L	1.852	130057	1.158

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		102.6			
[Ni	60					
[> Ge	74		103.2			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		105.6			
[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

Sample ID: 1202054521

Report Date/Time: Wednesday, March 24, 2010 10:49:40

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 10:53:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 6.126

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	50.584	ug/L	1.255	10463	0.009
[> Sc	45		ug/L		1114685	1114685.005
[Ni	60	52.022	ug/L	1.728	30615	0.027
[> Ge	74		ug/L		190996	190995.988
[As	75	49.343	ug/L	2.089	29976	0.154
[Se	77		ug/L		9445	-0.004
[Se	82	51.166	ug/L	2.547	2411	0.013
[Kr	83		ug/L		127	-0.000
[> Lu	175		ug/L		110884	110884.154
[Tl	205	50.016	ug/L	0.572	188033	1.694

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9	101.167				
[> Sc	45		103.1			
[Ni	60	104.045				
[> Ge	74		102.9			
[As	75	98.686				
[Se	77					
[Se	82	102.332				
[Kr	83					
[> Lu	175		104.3			
[Tl	205	100.032				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 10:57:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 7.127

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	-0.019	ug/L	99.058	7	-0.000
>	Sc 45		ug/L		1099373	1099373.471
[	Ni 60	-0.118	ug/L	7.526	145	-0.000
>	Ge 74		ug/L		189347	189346.629
|	As 75	0.397	ug/L	28.171	774	0.001
|	Se 77		ug/L		6865	-0.017
|	Se 82	2.718	ug/L	8.997	103	0.001
[	Kr 83		ug/L		118	-0.000
>	Lu 175		ug/L		109382	109382.266
[	Tl 205	0.094	ug/L	9.816	527	0.003

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be 9					
>	Sc 45		101.7			
[	Ni 60					
>	Ge 74		102.0			
|	As 75					
|	Se 77					
|	Se 82					
[	Kr 83					
>	Lu 175		102.9			
[	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#6 - Summary Report

Sample ID: 247907001

Sample Date/Time: Wednesday, March 24, 2010 11:01:09

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasetl.mth

Dataset File: C:\elandata\Dataset\100323\247907001.128

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.719	ug/L	1.013	819	0.001
[> Sc	45		ug/L		1171530	1171529.659
[Ni	60	18.036	ug/L	1.575	11303	0.009
[> Ge	74		ug/L		190164	190163.651
[As	75	4.952	ug/L	6.651	3484	0.015
[Se	77		ug/L		6216	-0.020
[Se	82	2.767	ug/L	6.714	106	0.001
[Kr	83		ug/L		168	0.000
[> Lu	175		ug/L		116599	116599.074
[Tl	205	0.293	ug/L	1.967	1350	0.010

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		108.4			
[Ni	60					
[> Ge	74		102.4			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		109.7			
[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#6 - Summary Report

Sample ID: 1202054517

Sample Date/Time: Wednesday, March 24, 2010 11:05:12

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\1202054517.129

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	4.418	ug/L	3.944	969	0.001
[> Sc	45		ug/L		1170319	1170319.366
[Ni	60	20.493	ug/L	2.418	12797	0.011
[> Ge	74		ug/L		189998	189998.459
[As	75	6.981	ug/L	10.332	4684	0.022
[Se	77		ug/L		5808	-0.023
[Se	82	1.816	ug/L	16.167	61	0.000
[Kr	83		ug/L		187	0.000
[> Lu	175		ug/L		118152	118152.458
[Tl	205	0.351	ug/L	1.141	1597	0.012

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		108.2			
[Ni	60					
[> Ge	74		102.4			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		111.2			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202054517

Report Date/Time: Wednesday, March 24, 2010 11:05:51

ICPMS#6 - Summary Report

Sample ID: 1202054519

Sample Date/Time: Wednesday, March 24, 2010 11:09:15

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\1202054519.130

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	28.487	ug/L	1.974	6204	0.005
[>	Sc 45		ug/L		1172745	1172744.679
[	Ni 60	48.744	ug/L	2.068	30198	0.026
[>	Ge 74		ug/L		186769	186769.097
[	As 75	44.980	ug/L	0.910	26767	0.140
[	Se 77		ug/L		5811	-0.022
[	Se 82	10.033	ug/L	7.565	442	0.003
[	Kr 83		ug/L		213	0.000
[>	Lu 175		ug/L		118334	118333.999
[	Tl 205	43.229	ug/L	2.239	173439	1.464

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Duplicate Rel. % Difference
[Be 9					
[> Sc 45		108.5			
[Ni 60					
[> Ge 74		100.6			
[As 75					
[Se 77					
[Se 82					
[Kr 83					
[> Lu 175		111.4			
[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#6 - Summary Report

Sample ID: 1202054520

Sample Date/Time: Wednesday, March 24, 2010 11:13:17

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasse11.mth

Dataset File: C:\elandata\Dataset\100323\1202054520.131

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	29.648	ug/L	1.779	6388	0.005
Sc	45		ug/L		1160358	1160358.300
Ni	60	44.493	ug/L	0.535	27293	0.023
Ge	74		ug/L		187659	187659.475
As	75	45.364	ug/L	0.568	27119	0.142
Se	77		ug/L		5400	-0.024
Se	82	10.037	ug/L	2.259	445	0.003
Kr	83		ug/L		180	0.000
Lu	175		ug/L		116204	116203.574
Tl	205	46.370	ug/L	1.992	182678	1.571

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		107.3			
Ni	60					
Ge	74		101.1			
As	75					
Se	77					
Se	82					
Kr	83					
Lu	175		109.4			
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#6 - Summary Report

Sample ID: 1202054518

Sample Date/Time: Wednesday, March 24, 2010 11:17:20

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 958059|10|rmj

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\1202054518.132

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.679 ug/L	7.189	153	0.000
>	Sc	45	ug/L		1131585	1131585.378
[	Ni	60	3.285 ug/L	2.306	2169	0.002
>	Ge	74	ug/L		194204	194203.520
[	As	75	1.164 ug/L	50.197	1257	0.004
|	Se	77	ug/L		7003	-0.017
|	Se	82	1.259 ug/L	28.431	35	0.000
[	Kr	83	ug/L		131	-0.000
>	Lu	175	ug/L		112751	112751.052
[	Tl	205	0.108 ug/L	2.657	597	0.004

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9			
>	Sc	45	104.7		
[	Ni	60			
>	Ge	74	104.6		
|	As	75			
|	Se	77			
|	Se	82			
[	Kr	83			
>	Lu	175	106.1		
[	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#6 - Summary Report

Sample ID: 247907002

Sample Date/Time: Wednesday, March 24, 2010 11:21:23

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059[2]rmj

Method File: c:\elandata\Method\beniaset1.mth

Dataset File: C:\elandata\Dataset\100323\247907002.133

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	29.278 ug/L	2.669	6319	0.005
[>	Sc	45	ug/L		1162253	1162253.493
[	Ni	60	36.207 ug/L	2.070	22290	0.019
[>	Ge	74	ug/L		184216	184216.418
[	As	75	14.161 ug/L	2.497	8668	0.044
[	Se	77	ug/L		5261	-0.025
[	Se	82	1.119 ug/L	12.900	27	0.000
[	Kr	83	ug/L		253	0.001
[>	Lu	175	ug/L		118412	118412.255
[	Tl	205	0.645 ug/L	3.411	2782	0.022

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9			
[>	Sc	45	107.5		
[	Ni	60			
[>	Ge	74	99.2		
[	As	75			
[	Se	77			
[	Se	82			
[	Kr	83			
[>	Lu	175	111.4		
[	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#6 - Summary Report

Sample ID: 247907003

Sample Date/Time: Wednesday, March 24, 2010 11:25:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059[2]rm]

Method File: c:\elandata\Method\beniasetl.mth

Dataset File: C:\elandata\Dataset\100323\247907003.134

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	6.889	ug/L	1.715	1509	0.001
[> Sc	45		ug/L		1172787	1172786.934
[Ni	60	59.102	ug/L	2.319	36564	0.031
[> Ge	74		ug/L		184481	184481.202
[As	75	11.560	ug/L	1.400	7185	0.036
[Se	77		ug/L		4799	-0.027
[Se	82	1.013	ug/L	9.027	22	0.000
[Kr	83		ug/L		241	0.001
[> Lu	175		ug/L		115675	115675.273
[Tl	205	0.958	ug/L	1.886	3942	0.032

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		108.5			
[Ni	60					
[> Ge	74		99.4			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		108.9			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 247907004

Sample Date/Time: Wednesday, March 24, 2010 11:29:29

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\247907004.135

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	18.325	ug/L	0.510	3864	0.003
> Sc	45		ug/L		1134217	1134217.153
Ni	60	22.939	ug/L	1.819	13860	0.012
> Ge	74		ug/L		187595	187595.469
As	75	6.554	ug/L	5.521	4375	0.020
Se	77		ug/L		4626	-0.028
Se	82	1.607	ug/L	27.206	51	0.000
Kr	83		ug/L		158	0.000
> Lu	175		ug/L		114619	114619.246
Tl	205	0.293	ug/L	1.829	1324	0.010

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
Be	9										
> Sc	45				104.9						
Ni	60										
> Ge	74				101.1						
As	75										
Se	77										
Se	82										
Kr	83										
> Lu	175				107.9						
Tl	205										

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 11:33:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 6.136

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	53.067	ug/L	0.851	10713	0.010
[> Sc	45		ug/L		1087852	1087851.506
[Ni	60	52.774	ug/L	2.855	30311	0.028
[> Ge	74		ug/L		186239	186238.848
[As	75	50.566	ug/L	2.271	29933	0.158
[Se	77		ug/L		8538	-0.007
[Se	82	51.983	ug/L	0.670	2389	0.013
[Kr	83		ug/L		116	-0.000
[> Lu	175		ug/L		109527	109527.051
[Tl	205	50.236	ug/L	2.095	186535	1.702

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9	106.133					
[> Sc	45		100.6				
[Ni	60	105.548					
[> Ge	74		100.3				
[As	75	101.131					
[Se	77						
[Se	82	103.966					
[Kr	83						
[> Lu	175		103.1				
[Tl	205	100.471					

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: Wednesday, March 24, 2010 11:34:09

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 11:37:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 7.137

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.014	ug/L	75.220	8	-0.000
[> Sc	45		ug/L		1091555	1091554.517
[Ni	60	-0.132	ug/L	9.366	136	-0.000
[> Ge	74		ug/L		187618	187617.564
[As	75	-0.025	ug/L	2453.919	524	-0.000
[Se	77		ug/L		5995	-0.021
[Se	82	1.268	ug/L	38.127	35	0.000
[Kr	83		ug/L		121	-0.000
[> Lu	175		ug/L		109578	109578.122
[Tl	205	0.080	ug/L	15.270	475	0.003

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		101.0			
[Ni	60					
[> Ge	74		101.1			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		103.1			
[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#6 - Summary Report

Sample ID: 247907005

Sample Date/Time: Wednesday, March 24, 2010 11:41:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\247907005.138

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	2.898	ug/L	1.200	630	0.001
[> Sc	45		ug/L		1152046	1152045.527
[Ni	60	24.466	ug/L	1.655	15000	0.013
[> Ge	74		ug/L		188307	188306.617
[As	75	5.895	ug/L	6.439	4005	0.018
[Se	77		ug/L		5323	-0.025
[Se	82	0.570	ug/L	83.963	2	0.000
[Kr	83		ug/L		171	0.000
[> Lu	175		ug/L		114340	114339.613
[Tl	205	0.385	ug/L	2.949	1678	0.013

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		106.6			
[Ni	60					
[> Ge	74		101.4			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		107.6			
[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

Sample ID: 247907005

Report Date/Time: Wednesday, March 24, 2010 11:42:17

ICPMS#6 - Summary Report

Sample ID: 247907006

Sample Date/Time: Wednesday, March 24, 2010 11:45:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\247907006.139

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.288	ug/L	0.445	498	0.000
[>	Sc 45		ug/L		1147590	1147589.660
[	Ni 60	11.861	ug/L	1.670	7359	0.006
[>	Ge 74		ug/L		188931	188931.053
[	As 75	5.094	ug/L	8.344	3545	0.016
[	Se 77		ug/L		4903	-0.027
[	Se 82	1.930	ug/L	10.318	66	0.000
[	Kr 83		ug/L		196	0.000
[>	Lu 175		ug/L		121168	121168.272
[	Tl 205	0.118	ug/L	7.583	683	0.004

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be 9					
[>	Sc 45		106.1			
[	Ni 60					
[>	Ge 74		101.8			
[	As 75					
[	Se 77					
[	Se 82					
[	Kr 83					
[>	Lu 175		114.0			
[	Tl 205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 247907007

Sample Date/Time: Wednesday, March 24, 2010 11:49:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059[2]rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\247907007.140

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	8.124	ug/L	2.006	1786	0.002
[> Sc	45		ug/L		1178468	1178468.426
[Ni	60	33.348	ug/L	2.817	20832	0.017
[> Ge	74		ug/L		190953	190952.635
[As	75	8.591	ug/L	4.825	5667	0.027
[Se	77		ug/L		5138	-0.026
[Se	82	3.797	ug/L	14.791	156	0.001
[Kr	83		ug/L		319	0.001
[> Lu	175		ug/L		129508	129508.008
[Tl	205	0.435	ug/L	3.030	2121	0.015

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		109.0			
[Ni	60					
[> Ge	74		102.9			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		121.9			
[Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Lu	175	

QC Action

QC Action Line: Continue

Sample ID: 247907007

Report Date/Time: Wednesday, March 24, 2010 11:50:23

ICPMS#6 - Summary Report

Sample ID: 247907008

Sample Date/Time: Wednesday, March 24, 2010 11:53:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\247907008.141

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	2.662	ug/L	3.882	576	0.000
[> Sc	45		ug/L		1144563	1144563.333
[Ni	60	20.154	ug/L	2.108	12315	0.011
[> Ge	74		ug/L		187313	187312.823
[As	75	8.083	ug/L	3.341	5262	0.025
[Se	77		ug/L		4752	-0.028
[Se	82	1.311	ug/L	9.021	37	0.000
[Kr	83		ug/L		163	0.000
[> Lu	175		ug/L		115315	115315.085
[Tl	205	0.380	ug/L	2.889	1671	0.013

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		105.9			
[Ni	60					
[> Ge	74		100.9			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		108.5			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247907008

Report Date/Time: Wednesday, March 24, 2010 11:54:26

ICPMS#6 - Summary Report

Sample ID: 247907009

Sample Date/Time: Wednesday, March 24, 2010 11:57:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniaset1.mth

Dataset File: C:\elandata\Dataset\100323\247907009.142

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.964	ug/L	1.122	870	0.001
[> Sc	45		ug/L		1168777	1168777.198
[Ni	60	21.285	ug/L	2.076	13266	0.011
[> Ge	74		ug/L		189104	189104.142
[As	75	6.116	ug/L	8.130	4154	0.019
[Se	77		ug/L		4833	-0.028
[Se	82	1.434	ug/L	30.223	43	0.000
[Kr	83		ug/L		197	0.000
[> Lu	175		ug/L		119518	119517.755
[Tl	205	0.250	ug/L	2.965	1209	0.008

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		108.1				
[Ni	60						
[> Ge	74		101.9				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		112.5				
[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#6 - Summary Report

Sample ID: 247907010

Sample Date/Time: Wednesday, March 24, 2010 12:01:54

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\247907010.143

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	6.323	ug/L	1.682	1370	0.001
[>	Sc 45		ug/L		1159100	1159100.153
[	Ni 60	33.926	ug/L	2.083	20840	0.018
[>	Ge 74		ug/L		186240	186239.825
[	As 75	13.095	ug/L	4.651	8145	0.041
[	Se 77		ug/L		4691	-0.028
[	Se 82	1.768	ug/L	32.469	58	0.000
[	Kr 83		ug/L		200	0.000
[>	Lu 175		ug/L		118921	118920.928
[	Tl 205	0.545	ug/L	2.723	2388	0.018

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be 9				
[>	Sc 45		107.2		
[	Ni 60				
[>	Ge 74		100.3		
[	As 75				
[	Se 77				
[	Se 82				
[	Kr 83				
[>	Lu 175		111.9		
[	Tl 205				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 247907011

Sample Date/Time: Wednesday, March 24, 2010 12:05:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasse11.mth

Dataset File: C:\elandata\Dataset\100323\247907011.144

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	5.793	ug/L	3.136	1205	0.001
> Sc	45		ug/L		1112381	1112381.251
[Ni	60	21.790	ug/L	0.438	12924	0.011
> Ge	74		ug/L		184364	184363.779
| As	75	6.593	ug/L	5.321	4318	0.021
| Se	77		ug/L		4629	-0.028
| Se	82	0.752	ug/L	69.580	10	0.000
[Kr	83		ug/L		177	0.000
> Lu	175		ug/L		115526	115526.401
[Tl	205	0.305	ug/L	2.593	1382	0.010

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Be	9					
> Sc	45		102.9			
[Ni	60					
> Ge	74		99.3			
| As	75					
| Se	77					
| Se	82					
[Kr	83					
> Lu	175		108.7			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247907011

Report Date/Time: Wednesday, March 24, 2010 12:06:37

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 12:10:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 6.145

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	54.514	ug/L	0.719	10790	0.010
> Sc	45		ug/L		1066663	1066662.682
Ni	60	54.119	ug/L	2.981	30472	0.028
> Ge	74		ug/L		184849	184849.304
As	75	49.739	ug/L	2.132	29242	0.155
Se	77		ug/L		8301	-0.008
Se	82	50.731	ug/L	0.564	2313	0.013
Kr	83		ug/L		126	-0.000
> Lu	175		ug/L		110370	110370.494
Tl	205	49.345	ug/L	0.129	184653	1.671

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	109.028					
> Sc	45		98.7				
Ni	60	108.237					
> Ge	74		99.6				
As	75	99.477					
Se	77						
Se	82	101.461					
Kr	83						
> Lu	175		103.9				
Tl	205	98.691					

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: Wednesday, March 24, 2010 12:10:38

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 12:14:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 7.146

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.002	ug/L		562.681	11	0.000
>	Sc	45		ug/L			1069386	1069385.502
[	Ni	60	-0.145	ug/L		11.266	126	-0.000
>	Ge	74		ug/L			185087	185087.488
|	As	75	-0.331	ug/L		85.195	335	-0.001
|	Se	77		ug/L			5821	-0.022
|	Se	82	0.109	ug/L		66.275	-19	0.000
[	Kr	83		ug/L			123	-0.000
>	Lu	175		ug/L			108715	108715.360
[	Tl	205	0.085	ug/L		9.630	492	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Dil	Duplicate	Rel. % Difference
Be	9										
> Sc	45				98.9						
Ni	60										
> Ge	74				99.7						
As	75										
Se	77										
Se	82										
Kr	83										
> Lu	175				102.3						
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

Sample ID: QC Std 7

Report Date/Time: Wednesday, March 24, 2010 12:14:42

ICPMS#6 - Summary Report

Sample ID: 247907012

Sample Date/Time: Wednesday, March 24, 2010 12:18:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059[2]rmj

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\247907012.147

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.573	ug/L	5.398	539	0.000
> Sc	45		ug/L		1109199	1109199.057
Ni	60	13.221	ug/L	2.174	7901	0.007
> Ge	74		ug/L		185032	185032.091
As	75	4.086	ug/L	9.574	2888	0.013
Se	77		ug/L		4806	-0.027
Se	82	0.799	ug/L	76.257	12	0.000
Kr	83		ug/L		173	0.000
> Lu	175		ug/L		115395	115395.393
Tl	205	0.221	ug/L	0.921	1054	0.007

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
> Sc	45		102.6			
Ni	60					
> Ge	74		99.7			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		108.6			
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#6 - Summary Report

Sample ID: 247907013

Sample Date/Time: Wednesday, March 24, 2010 12:22:09

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\247907013.148

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	8.817	ug/L	2.957	1918	0.002
[> Sc	45		ug/L		1166533	1166532.543
[Ni	60	69.887	ug/L	0.429	42970	0.037
[> Ge	74		ug/L		183205	183204.512
[As	75	19.359	ug/L	0.767	11596	0.060
[Se	77		ug/L		4877	-0.026
[Se	82	1.237	ug/L	39.676	32	0.000
[Kr	83		ug/L		281	0.001
[> Lu	175		ug/L		119208	119207.853
[Tl	205	0.929	ug/L	1.772	3947	0.031

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		107.9				
[Ni	60						
[> Ge	74		98.7				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		112.2				
[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#6 - Summary Report

Sample ID: 247907014

Sample Date/Time: Wednesday, March 24, 2010 12:26:13

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasetl.mth

Dataset File: C:\elandata\Dataset\100323\247907014.149

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	4.670	ug/L	3.907	994	0.001
[>	Sc 45		ug/L		1136210	1136210.126
[	Ni 60	31.468	ug/L	1.986	18963	0.016
[>	Ge 74		ug/L		180413	180413.285
[	As 75	6.940	ug/L	3.930	4424	0.022
[	Se 77		ug/L		4520	-0.028
[	Se 82	1.042	ug/L	45.941	23	0.000
[	Kr 83		ug/L		209	0.000
[>	Lu 175		ug/L		117438	117437.586
[	Tl 205	0.361	ug/L	1.866	1627	0.012

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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be 9				
[>	Sc 45	105.1			
[	Ni 60				
[>	Ge 74	97.2			
[	As 75				
[	Se 77				
[	Se 82				
[	Kr 83				
[>	Lu 175	110.5			
[	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#6 - Summary Report

Sample ID: 247907015

Sample Date/Time: Wednesday, March 24, 2010 12:30:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\247907015.150

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	4.798	ug/L	2.702	1004	0.001
[>	Sc 45		ug/L		1117262	1117261.896
[	Ni 60	23.227	ug/L	2.147	13820	0.012
[>	Ge 74		ug/L		182216	182215.665
[	As 75	6.759	ug/L	6.185	4368	0.021
[	Se 77		ug/L		4501	-0.028
[	Se 82	0.819	ug/L	3.538	13	0.000
[	Kr 83		ug/L		214	0.000
[>	Lu 175		ug/L		118195	118195.496
[	Tl 205	0.274	ug/L	3.350	1290	0.009

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be 9				
[>	Sc 45		103.3		
[	Ni 60				
[>	Ge 74		98.2		
[	As 75				
[	Se 77				
[	Se 82				
[	Kr 83				
[>	Lu 175		111.2		
[	Tl 205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 247907016

Sample Date/Time: Wednesday, March 24, 2010 12:34:20

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniassetl.mth

Dataset File: C:\elandata\Dataset\100323\247907016.151

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	4.833	ug/L	6.291	1010	0.001
[> Sc	45		ug/L		1114959	1114958.987
[Ni	60	40.442	ug/L	1.633	23854	0.021
[> Ge	74		ug/L		179453	179453.018
[As	75	8.728	ug/L	0.954	5402	0.027
[Se	77		ug/L		4395	-0.029
[Se	82	0.014	ug/L	3288.493	-23	0.000
[Kr	83		ug/L		210	0.000
[> Lu	175		ug/L		112982	112982.185
[Tl	205	0.628	ug/L	1.482	2588	0.021

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 % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		103.1				
[Ni	60						
[> Ge	74		96.7				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		106.3				
[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#6 - Summary Report

Sample ID: 247907017

Sample Date/Time: Wednesday, March 24, 2010 12:38:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\beniasse1.mth

Dataset File: C:\elandata\Dataset\100323\247907017.152

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.479	ug/L	6.057	727	0.001
[> Sc	45		ug/L		1111907	1111907.404
[Ni	60	25.879	ug/L	1.607	15299	0.014
[> Ge	74		ug/L		180349	180349.393
[As	75	11.155	ug/L	3.196	6796	0.035
[Se	77		ug/L		4460	-0.028
[Se	82	0.664	ug/L	67.698	6	0.000
[Kr	83		ug/L		187	0.000
[> Lu	175		ug/L		115097	115096.667
[Tl	205	0.336	ug/L	1.678	1498	0.011

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 % Dif	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		102.8				
[Ni	60						
[> Ge	74		97.2				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		108.3				
[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

Sample ID: 247907017

Report Date/Time: Wednesday, March 24, 2010 12:39:05

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 12:42:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\benlassetl.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 6.153

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	57.169	ug/L	0.940	10747	0.011
Sc	45		ug/L		1013096	1013096.189
Ni	60	55.178	ug/L	1.453	29506	0.029
Ge	74		ug/L		178326	178325.988
As	75	51.210	ug/L	2.361	29024	0.160
Se	77		ug/L		7935	-0.009
Se	82	52.773	ug/L	1.021	2323	0.013
Kr	83		ug/L		124	-0.000
Lu	175		ug/L		103960	103959.963
Tl	205	52.543	ug/L	2.487	185157	1.780

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	114.339					
Sc	45		93.7				
Ni	60	110.355					
Ge	74		96.1				
As	75	102.420					
Se	77						
Se	82	105.546					
Kr	83						
Lu	175		97.8				
Tl	205	105.085					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	CCV is out of limits (+/- 10%)
QC Std 6	Ni	60	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 6

Report Date/Time: Wednesday, March 24, 2010 12:43:06

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 12:46:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beniasset1.mth

Dataset File: C:\elandata\Dataset\100323\QC Std 7.154

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	-0.013	ug/L	41.810	7	-0.000
[>	Sc 45		ug/L		1017048	1017048.309
[	Ni 60	-0.155	ug/L	11.009	115	-0.000
[>	Ge 74		ug/L		177166	177166.069
[	As 75	0.226	ug/L	58.792	629	0.001
[	Se 77		ug/L		5528	-0.022
[	Se 82	0.064	ug/L	692.520	-21	0.000
[	Kr 83		ug/L		124	-0.000
[>	Lu 175		ug/L		105017	105016.666
[	Tl 205	0.072	ug/L	15.676	427	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

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		95.4			
[	As 75					
[	Se 77					
[	Se 82					
[	Kr 83					
[>	Lu 175		98.8			
[	Tl 205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Wednesday, March 24, 2010 12:47:11

ICPMS #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 24, 2010 21:44:13

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100318\Sample.305

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	1536.5	1536.483	49.723	3.2
Mg	24.0	19010.2	19010.241	185.357	1.0
Co	58.9	25739.2	25739.167	116.268	0.5
Rh	102.9	53386.6	53386.570	220.780	0.4
In	114.9	61612.8	61612.789	609.721	1.0
Pb	208.0	30169.4	30169.427	376.230	1.2
[> Ba	137.9	55305.5	55305.458	1345.454	2.4
[Ba++	69.0	1456.5	0.026	0.001	3.3
[> Ce	139.9	71357.6	71357.584	635.269	0.9
[CeO	155.9	1002.7	0.014	0.000	2.7
Bkgd	220.0	23.4	23.400	2.275	9.7

Current Optimization File Data

Current Value	Description
0.83	Nebulizer Gas Flow
8.75	Lens Voltage
1450.00	ICP RF Power
-1800.00	Analog Stage Voltage
900.00	Pulse Stage Voltage
30.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	6.3	1874.8
Co	59	21	7.0	25418.9
In	115	21	7.8	58083.8

ICPMS #6 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	583	2080	0.638
Be	9.0	9.0	2029	2080	0.640
Mg	24.0	24.0	5676	2120	0.614
Mg	25.0	25.0	5932	2080	0.727
Mg	26.0	26.1	6177	2120	0.724
Co	58.9	58.9	14162	2170	0.648
Rh	102.9	102.8	24854	2230	0.720
In	114.9	114.9	27771	2260	0.689
Ce	139.9	139.8	33843	2280	0.757
Pb	206.0	206.0	49936	2420	0.711
Pb	207.0	206.9	50135	2385	0.692
Pb	208.0	208.0	50439	2430	0.716
U	238.1	238.0	57723	2470	0.704

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, March 24, 2010 21:58:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\Blank.001

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9		ug/L			12
Sc	45		ug/L			1096086

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45					

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#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, March 24, 2010 22:00:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\Standard 1.002

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	10.000	ug/L	0.467	2013	0.002
Sc 45		ug/L		1120400	1120400.202

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be 9					
Sc 45					

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#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, March 24, 2010 22:03:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\Standard 2.003

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	100.110	ug/L	0.967	22704	0.020
45		ug/L		1129981	1129981.005	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
45						

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#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, March 24, 2010 22:05:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 1.004

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.293	ug/L	0.848	11359	0.010
Sc	45		ug/L		1124609	1124609.363

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9	100.586				
Sc	45		102.6			

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#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, March 24, 2010 22:07:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 2.005

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.009	ug/L	333.184	10	-0.000
45		ug/L		1094134	1094134.238	

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Duplicate Rel. % Difference
[Be	9					
45			99.8			

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#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, March 24, 2010 22:09:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 3.006

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.538	ug/L	12.537	133	0.000
45		ug/L		1119001	1119001.217	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9	107.540				
45		102.1				

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#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, March 24, 2010 22:12:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 4.007

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.077	ug/L	46.960	29	0.000
45		ug/L		1108636	1108636.391	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
45		101.1				

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#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, March 24, 2010 22:14:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 5.008

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean	
[	Be	9	20.418	ug/L	1.268	4553	0.004
>	Sc	45	ug/L		1108693	1108692.782	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9	102.088			
>	Sc	45		101.2		

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#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 22:16:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 6.009

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.003 ug/L	0.867	11429	0.010
Sc	45	ug/L		1138212	1138211.961	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Dil	Duplicate	Rel. % Difference
[	Be	9	100.007								
Sc	45			103.8							

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#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 22:18:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 7.010

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.008 ug/L	58.286	10	-0.000
>	Sc	45	ug/L		1104702	1104701.653

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45		100.8			

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#6 - Summary Report

Sample ID: 247907012

Sample Date/Time: Wednesday, March 24, 2010 22:21:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\247907012.011

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.454	ug/L	2.585	567	0.000
Sc	45		ug/L		1126665	1126665.102

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9					
Sc	45		102.8			

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#6 - Summary Report

Sample ID: 247907013

Sample Date/Time: Wednesday, March 24, 2010 22:24:02

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\247907013.012

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	8.957 ug/L	2.722	2125	0.002
Sc	45	ug/L		1175362	1175362.439	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9				
Sc	45		107.2			

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#6 - Summary Report

Sample ID: 247907014

Sample Date/Time: Wednesday, March 24, 2010 22:26:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\247907014.013

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	4.629	ug/L	2.503	1084	0.001
Sc	45		ug/L		1154425	1154424.861

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		105.3			

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#6 - Summary Report

Sample ID: 247907015

Sample Date/Time: Wednesday, March 24, 2010 22:29:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\247907015.014

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	5.155 ug/L	2.497	1181	0.001
[>	Sc	45	ug/L		1130321	1130320.980

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9				
[>	Sc	45		103.1		

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#6 - Summary Report

Sample ID: 247907016

Sample Date/Time: Wednesday, March 24, 2010 22:31:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\247907016.015

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	4.962	ug/L	3.950	1154	0.001
45		ug/L		1147340	1147339.770	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
45		104.7				

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#6 - Summary Report

Sample ID: 247907017

Sample Date/Time: Wednesday, March 24, 2010 22:34:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958059|2|rmj

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\247907017.016

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.689	1.969	851	0.001
>	Sc	45	ug/L		1133621	1133620.843

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9				
>	Sc	45		103.4		

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#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 24, 2010 22:36:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 6.017

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	53.676	ug/L	1.344	12080	0.011
Sc 45		ug/L		1120888	1120888.476

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	0.9999
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be 9	107.353				
Sc 45		102.3			

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#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 24, 2010 22:38:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be.mth

Dataset File: C:\elandata\Dataset\100324\100324\QC Std 7.018

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.010	ug/L	207.870	9	-0.000
Sc	45		ug/L		1079437	1079437.227

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	0.9999
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		98.5			

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

=====
Analysis Begun

Logged In Analyst: Administrator

Technique: AA FIMS-MHS

Spectrometer Model: FIMS-100, S/N B050-9550

Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\031210S1.SIF

Batch ID:

Results Data Set: 031210S1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Method Loaded

Method Name: SOIL

Method Last Saved: 1/4/2010 13:53:20

Method Description: 7471A, ILM04 ANALYST JXL

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 3/12/2010 09:06:46

Analyst:

Data Type: Original

Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0008	0.0029	0.0008	09:07:37	Yes
2		[0.00]	0.0008	0.0026	0.0008	09:08:07	Yes
Mean:		[0.00]	0.0008				
SD:		0.00	0.0000				
%RSD:		0.00	4.72				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 3/12/2010 09:08:26

Analyst:

Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0023	0.0135	0.0031	09:09:16	Yes
2		[0.2]	0.0021	0.0115	0.0029	09:09:46	Yes
Mean:		[0.2]	0.0022				
SD:		0.0	0.0001				
%RSD:		0.0	4.67				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.01111 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 3/12/2010 09:10:05

Analyst:

Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0061	0.0307	0.0069	09:10:56	Yes
2		[0.5]	0.0061	0.0298	0.0069	09:11:26	Yes
Mean:		[0.5]	0.0061				
SD:		0.0	0.0000				
%RSD:		0.0	0.01				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.999210 Slope: 0.01223 Intercept: -0.00008

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 3/12/2010 09:11:45

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0262	0.1219	0.0270	09:12:37	Yes
2		[2.0]	0.0260	0.1210	0.0268	09:13:07	Yes
Mean:		[2.0]	0.0261				
SD:		0.0	0.0002				
%RSD:		0.0	0.61				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999827 Slope: 0.01317 Intercept: -0.00028

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 3/12/2010 09:13:27

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0658	0.3028	0.0666	09:14:19	Yes
2		[5.0]	0.0654	0.2997	0.0662	09:14:49	Yes
Mean:		[5.0]	0.0656				
SD:		0.0	0.0003				
%RSD:		0.0	0.44				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999975 Slope: 0.01317 Intercept: -0.00028

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

Date Collected: 3/12/2010 09:15:09

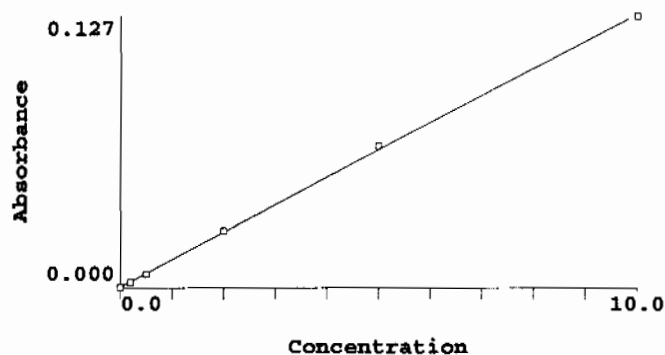
Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1271	0.5848	0.1279	09:15:59	Yes
2		[10.0]	0.1262	0.5786	0.1270	09:16:29	Yes
Mean:		[10.0]	0.1266				
SD:		0.0	0.0006				
%RSD:		0.0	0.49				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999819 Slope: 0.01273 Intercept: 0.00021

-----
Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	-0.017	0.00	4.7
S0.2	0.0022	0.2	0.158	0.00	4.7
S0.5	0.0061	0.5	0.461	0.00	0.0
S2.0	0.0261	2.0	2.035	0.00	0.6

S5.0	0.0656	5.0	5.134	0.00	0.4
S10.0	0.1266	10.0	9.929	0.00	0.5

Correlation Coef.: 0.999819 Slope: 0.01273 Intercept: 0.00021

Sequence No.: 7

Autosampler Location: 9

Sample ID: ICV

Date Collected: 3/12/2010 09:16:48

Analyst:

Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.156	5.156	0.0659	0.3041	0.0667	09:17:39	Yes
2	5.121	5.121	0.0654	0.3014	0.0662	09:18:09	Yes
Mean:	5.138	5.138	0.0656				
SD:	0.025	0.025	0.0003				
%RSD:	0.481	0.481	0.48				

QC value within limits for Hg 253.7 Recovery = 102.76%

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 10

Sample ID: ICB

Date Collected: 3/12/2010 09:18:29

Analyst:

Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0003	0.0008	0.0005	09:19:20	Yes
2	-0.033	-0.033	-0.0002	0.0013	0.0006	09:19:50	Yes
Mean:	-0.038	-0.038	-0.0003				
SD:	0.006	0.006	0.0001				
%RSD:	15.79	15.79	28.62				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 11

Sample ID: CRDL

Date Collected: 3/12/2010 09:20:10

Analyst:

Data Type: Original

Replicate Data: CRDL

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.152	0.152	0.0021	0.0124	0.0029	09:21:02	Yes
2	0.157	0.157	0.0022	0.0133	0.0030	09:21:32	Yes
Mean:	0.154	0.154	0.0022				
SD:	0.003	0.003	0.0000				
%RSD:	2.094	2.094	1.89				

QC value within limits for Hg 253.7 Recovery = 77.13%

All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 09:21:52

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.075	5.075	0.0648	0.2992	0.0656	09:22:42	Yes
2	5.095	5.095	0.0651	0.2994	0.0659	09:23:11	Yes
Mean:	5.085	5.085	0.0650				
SD:	0.015	0.015	0.0002				
%RSD:	0.285	0.285	0.28				

QC value within limits for Hg 253.7 Recovery = 101.70%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 09:23:31
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0003	0.0011	0.0005	09:24:22	Yes
2	-0.038	-0.038	-0.0003	0.0014	0.0005	09:24:51	Yes
Mean:	-0.039	-0.039	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	3.041	3.041	5.39				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1202068231|964066|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 3/12/2010 09:25:11
Data Type: Original

Replicate Data: 1202068231|964066|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.056	-0.056	-0.0005	0.0008	0.0003	09:26:02	Yes
2	-0.051	-0.051	-0.0004	0.0011	0.0004	09:26:32	Yes
Mean:	-0.053	-0.053	-0.0005				
SD:	0.004	0.004	0.0000				
%RSD:	7.231	7.231	10.57				

Sequence No.: 13
Sample ID: 1202068232|964066|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 3/12/2010 09:26:52
Data Type: Original

Replicate Data: 1202068232|964066|10

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.852	3.852	0.0493	0.2302	0.0501	09:27:44	Yes
2	3.864	3.864	0.0494	0.2300	0.0502	09:28:14	Yes
Mean:	3.858	3.858	0.0493				
SD:	0.009	0.009	0.0001				
%RSD:	0.225	0.225	0.22				

Sequence No.: 14
Sample ID: 248393004|964066|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 3/12/2010 09:28:35
Data Type: Original

Replicate Data: 248393004|964066|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.175	0.175	0.0024	0.0144	0.0032	09:29:25	Yes
2	0.175	0.175	0.0024	0.0142	0.0032	09:29:55	Yes
Mean:	0.175	0.175	0.0024				
SD:	0.001	0.001	0.0000				
%RSD:	0.290	0.290	0.26				

Sequence No.: 15
Sample ID: 1202068233|964066|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 3/12/2010 09:30:14
Data Type: Original

Replicate Data: 1202068233|964066|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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Replicate Data: 1202056205|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.057	-0.057	-0.0005	0.0007	0.0003	09:39:20	Yes
2	-0.057	-0.057	-0.0005	0.0005	0.0003	09:39:50	Yes
Mean:	-0.057	-0.057	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.407	0.407	0.58				

Sequence No.: 21

Sample ID: 1202056206|958767|10

Analyst: JXL

Autosampler Location: 21

Date Collected: 3/12/2010 09:40:09

Data Type: Original

Replicate Data: 1202056206|958767|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.544	3.544	0.0453	0.2117	0.0461	09:41:00	Yes
2	3.521	3.521	0.0450	0.2095	0.0458	09:41:30	Yes
Mean:	3.532	3.532	0.0452				
SD:	0.016	0.016	0.0002				
%RSD:	0.454	0.454	0.45				

Sequence No.: 22

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 09:41:50

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.142	5.142	0.0657	0.3043	0.0665	09:42:40	Yes
2	5.114	5.114	0.0653	0.3018	0.0661	09:43:10	Yes
Mean:	5.128	5.128	0.0655				
SD:	0.020	0.020	0.0003				
%RSD:	0.391	0.391	0.39				

QC value within limits for Hg 253.7 Recovery = 102.56%
All analyte(s) passed QC.

Sequence No.: 23

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 09:43:29

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.032	-0.032	-0.0002	0.0021	0.0006	09:44:20	Yes
2	-0.031	-0.031	-0.0002	0.0026	0.0006	09:44:49	Yes
Mean:	-0.031	-0.031	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	2.472	2.472	5.34				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Sample ID: 248183001|958767|1

Analyst: JXL

Autosampler Location: 22

Date Collected: 3/12/2010 09:45:09

Data Type: Original

Replicate Data: 248183001|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.067	0.067	0.0011	0.0079	0.0019	09:46:00	Yes
2	0.071	0.071	0.0011	0.0087	0.0019	09:46:30	Yes

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.131	0.131	0.0019	0.0119	0.0027	09:54:26	Yes
2	0.125	0.125	0.0018	0.0115	0.0026	09:54:56	Yes
Mean:	0.128	0.128	0.0018				
SD:	0.004	0.004	0.0000				
%RSD:	3.053	3.053	2.70				

Sequence No.: 30

Autosampler Location: 28

Sample ID: 248183003|958767|1

Date Collected: 3/12/2010 09:55:15

Analyst: JXL

Data Type: Original

Replicate Data: 248183003|958767|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.075	0.075	0.0012	0.0087	0.0020	09:56:05	Yes
2	0.075	0.075	0.0012	0.0086	0.0020	09:56:35	Yes
Mean:	0.075	0.075	0.0012				
SD:	0.000	0.000	0.0000				
%RSD:	0.576	0.576	0.47				

Sequence No.: 31

Autosampler Location: 29

Sample ID: 248183004|958767|1

Date Collected: 3/12/2010 09:56:54

Analyst: JXL

Data Type: Original

Replicate Data: 248183004|958767|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.058	0.058	0.0010	0.0078	0.0018	09:57:45	Yes
2	0.057	0.057	0.0009	0.0081	0.0017	09:58:15	Yes
Mean:	0.058	0.058	0.0010				
SD:	0.001	0.001	0.0000				
%RSD:	1.283	1.283	0.99				

Sequence No.: 32

Autosampler Location: 30

Sample ID: 248183005|958767|1

Date Collected: 3/12/2010 09:58:34

Analyst: JXL

Data Type: Original

Replicate Data: 248183005|958767|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.090	0.090	0.0014	0.0104	0.0022	09:59:25	Yes
2	0.093	0.093	0.0014	0.0112	0.0022	09:59:55	Yes
Mean:	0.092	0.092	0.0014				
SD:	0.003	0.003	0.0000				
%RSD:	2.837	2.837	2.40				

Sequence No.: 33

Autosampler Location: 31

Sample ID: 248183006|958767|1

Date Collected: 3/12/2010 10:00:14

Analyst: JXL

Data Type: Original

Replicate Data: 248183006|958767|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0003	0.0055	0.0011	10:01:04	Yes
2	0.011	0.011	0.0004	0.0054	0.0012	10:01:34	Yes
Mean:	0.011	0.011	0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	3.345	3.345	1.30				

Sequence No.: 34

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 10:01:53

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.241	5.241	0.0669	0.3111	0.0677	10:02:44	Yes
2	5.231	5.231	0.0668	0.3109	0.0676	10:03:14	Yes
Mean:	5.236	5.236	0.0669				
SD:	0.007	0.007	0.0001				
%RSD:	0.138	0.138	0.14				

QC value within limits for Hg 253.7 Recovery = 104.71%
All analyte(s) passed QC.

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 10:03:33

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.016	-0.016	0.0000	0.0044	0.0008	10:04:24	Yes
2	-0.022	-0.022	-0.0001	0.0035	0.0007	10:04:54	Yes
Mean:	-0.019	-0.019	-0.0000				
SD:	0.004	0.004	0.0001				
%RSD:	21.80	21.80	190.85				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 32

Sample ID: 248183007|958767|1

Date Collected: 3/12/2010 10:05:13

Analyst: JXL

Data Type: Original

Replicate Data: 248183007|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.017	-0.017	-0.0000	0.0036	0.0008	10:06:04	Yes
2	-0.015	-0.015	0.0000	0.0034	0.0008	10:06:34	Yes
Mean:	-0.016	-0.016	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	8.297	8.297	174.81				

Sequence No.: 37

Autosampler Location: 33

Sample ID: 248183008|958767|1

Date Collected: 3/12/2010 10:06:53

Analyst: JXL

Data Type: Original

Replicate Data: 248183008|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.095	0.095	0.0014	0.0100	0.0022	10:07:44	Yes
2	0.094	0.094	0.0014	0.0102	0.0022	10:08:14	Yes
Mean:	0.095	0.095	0.0014				
SD:	0.001	0.001	0.0000				
%RSD:	1.230	1.230	1.04				

Sequence No.: 38

Autosampler Location: 34

Sample ID: 248183009|958767|1

Date Collected: 3/12/2010 10:08:34

Analyst: JXL

Data Type: Original

Replicate Data: 248183009|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.106	0.106	0.0016	0.0110	0.0024	10:09:25	Yes

Replicate Data: 248183014|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.124	0.124	0.0018	0.0120	0.0026	10:17:50	Yes
2	0.125	0.125	0.0018	0.0122	0.0026	10:18:20	Yes
Mean:	0.124	0.124	0.0018				
SD:	0.000	0.000	0.0000				
%RSD:	0.270	0.270	0.24				

Sequence No.: 44

Sample ID: 248183015|958767|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 3/12/2010 10:18:39

Data Type: Original

Replicate Data: 248183015|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.093	0.093	0.0014	0.0104	0.0022	10:19:31	Yes
2	0.090	0.090	0.0014	0.0100	0.0022	10:20:01	Yes
Mean:	0.091	0.091	0.0014				
SD:	0.002	0.002	0.0000				
%RSD:	2.349	2.349	1.98				

Sequence No.: 45

Sample ID: 248183016|958767|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 3/12/2010 10:20:20

Data Type: Original

Replicate Data: 248183016|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	0.0006	0.0064	0.0014	10:21:11	Yes
2	0.027	0.027	0.0006	0.0065	0.0014	10:21:41	Yes
Mean:	0.027	0.027	0.0006				
SD:	0.000	0.000	0.0000				
%RSD:	0.581	0.581	0.36				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 10:22:01

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.272	5.272	0.0673	0.3120	0.0681	10:22:51	Yes
2	5.257	5.257	0.0671	0.3099	0.0679	10:23:21	Yes
Mean:	5.264	5.264	0.0672				
SD:	0.011	0.011	0.0001				
%RSD:	0.200	0.200	0.20				

QC value within limits for Hg 253.7 Recovery = 105.29%
All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 10:23:40

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	-0.0000	0.0035	0.0008	10:24:31	Yes
2	-0.017	-0.017	-0.0000	0.0039	0.0008	10:25:01	Yes
Mean:	-0.018	-0.018	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	7.513	7.513	128.72				

QC value within limits for Hg 253.7 Recovery = Not calculated

Replicate Data: 1202056216|958770|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.703	1.703	0.0219	0.1094	0.0227	10:41:19	Yes
2	1.680	1.680	0.0216	0.1076	0.0224	10:41:49	Yes
Mean:	1.692	1.692	0.0218				
SD:	0.016	0.016	0.0002				
%RSD:	0.961	0.961	0.95				

Sequence No.: 58

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 10:42:09

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.850	4.850	0.0620	0.2887	0.0628	10:42:59	Yes
2	4.873	4.873	0.0623	0.2887	0.0631	10:43:29	Yes
Mean:	4.861	4.861	0.0621				
SD:	0.016	0.016	0.0002				
%RSD:	0.328	0.328	0.33				

QC value within limits for Hg 253.7 Recovery = 97.23%
All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 10:43:48

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0002	0.0030	0.0006	10:44:39	Yes
2	-0.036	-0.036	-0.0002	0.0026	0.0006	10:45:09	Yes
Mean:	-0.034	-0.034	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	9.940	9.940	19.99				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60

Sample ID: 1202056215|958770|5

Analyst: JXL

Autosampler Location: 52

Date Collected: 3/12/2010 10:45:28

Data Type: Original

Replicate Data: 1202056215|958770|5

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0002	0.0050	0.0010	10:46:19	Yes
2	0.000	0.000	0.0002	0.0047	0.0010	10:46:49	Yes
Mean:	0.001	0.001	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	87.86	87.86	4.91				

Sequence No.: 61

Sample ID: 248189002|958770|1

Analyst: JXL

Autosampler Location: 53

Date Collected: 3/12/2010 10:47:08

Data Type: Original

Replicate Data: 248189002|958770|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.108	0.108	0.0016	0.0115	0.0024	10:48:00	Yes
2	0.105	0.105	0.0016	0.0111	0.0023	10:48:30	Yes
Mean:	0.106	0.106	0.0016				

#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.697	1.697	0.0218	0.1047	0.0226	10:56:24	Yes
2	1.690	1.690	0.0217	0.1037	0.0225	10:56:54	Yes
Mean:	1.694	1.694	0.0218				
SD:	0.005	0.005	0.0001				
%RSD:	0.325	0.325	0.32				

Sequence No.: 67

Autosampler Location: 59

Sample ID: 248198006|958770|1

Date Collected: 3/12/2010 10:57:14

Analyst: JXL

Data Type: Original

Replicate Data: 248198006|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.303	0.303	0.0041	0.0222	0.0049	10:58:05	Yes
2	0.304	0.304	0.0041	0.0222	0.0049	10:58:35	Yes
Mean:	0.303	0.303	0.0041				
SD:	0.000	0.000	0.0000				
%RSD:	0.118	0.118	0.11				

Sequence No.: 68

Autosampler Location: 60

Sample ID: 248198007|958770|1

Date Collected: 3/12/2010 10:58:55

Analyst: JXL

Data Type: Original

Replicate Data: 248198007|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	84.43	84.43	1.0752	6.2903	1.0760	10:59:47	Yes
	Sample concentration is greater than that of the highest standard.						
2	83.54	83.54	1.0639	6.2043	1.0647	11:00:16	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	83.98	83.98	1.0695				
SD:	0.627	0.627	0.0080				
%RSD:	0.747	0.747	0.75				

Sample concentration is greater than that of the highest standard.

Sequence No.: 69

Autosampler Location: 61

Sample ID: 248198008|958770|1

Date Collected: 3/12/2010 11:00:36

Analyst: JXL

Data Type: Original

Replicate Data: 248198008|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	89.14	89.14	1.1352	6.9808	1.1360	11:01:28	Yes
	Sample concentration is greater than that of the highest standard.						
2	88.17	88.17	1.1228	6.8672	1.1236	11:01:57	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	88.65	88.65	1.1290				
SD:	0.688	0.688	0.0088				
%RSD:	0.776	0.776	0.78				

Sample concentration is greater than that of the highest standard.

Sequence No.: 70

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 11:02:18

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.058	5.058	0.0646	0.2936	0.0654	11:03:09	Yes
2	5.054	5.054	0.0646	0.2953	0.0654	11:03:39	Yes
Mean:	5.056	5.056	0.0646				
SD:	0.003	0.003	0.0000				

%RSD: 0.062 0.062 0.06

QC value within limits for Hg 253.7 Recovery = 101.12%

All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 11:03:58

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.044	0.044	0.0008	0.0059	0.0016	11:04:49	Yes
2	0.039	0.039	0.0007	0.0060	0.0015	11:05:19	Yes
Mean:	0.041	0.041	0.0007				
SD:	0.003	0.003	0.0000				
%RSD:	8.340	8.340	5.92				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 72

Sample ID: 248198009|958770|1

Analyst: JXL

Autosampler Location: 62

Date Collected: 3/12/2010 11:05:38

Data Type: Original

Replicate Data: 248198009|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.949	0.949	0.0123	0.0605	0.0131	11:06:29	Yes
2	0.941	0.941	0.0122	0.0599	0.0130	11:06:59	Yes
Mean:	0.945	0.945	0.0122				
SD:	0.006	0.006	0.0001				
%RSD:	0.596	0.596	0.59				

Sequence No.: 73

Sample ID: 248198010|958770|1

Analyst: JXL

Autosampler Location: 63

Date Collected: 3/12/2010 11:07:19

Data Type: Original

Replicate Data: 248198010|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.479	0.479	0.0063	0.0362	0.0071	11:08:10	Yes
2	0.418	0.418	0.0055	0.0312	0.0063	11:08:40	Yes
Mean:	0.448	0.448	0.0059				
SD:	0.043	0.043	0.0005				
%RSD:	9.615	9.615	9.27				

Sequence No.: 74

Sample ID: 248198011|958770|1

Analyst: JXL

Autosampler Location: 64

Date Collected: 3/12/2010 11:09:00

Data Type: Original

Replicate Data: 248198011|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.328	0.328	0.0044	0.0265	0.0052	11:09:51	Yes
2	0.314	0.314	0.0042	0.0251	0.0050	11:10:21	Yes
Mean:	0.321	0.321	0.0043				
SD:	0.010	0.010	0.0001				
%RSD:	3.028	3.028	2.88				

Sequence No.: 75

Sample ID: 248198012|958770|1

Analyst: JXL

Autosampler Location: 65

Date Collected: 3/12/2010 11:10:41

Data Type: Original

Sequence No.: 80
Sample ID: 1202056116|958725|10
Analyst: JXL

Autosampler Location: 70
Date Collected: 3/12/2010 11:19:05
Data Type: Original

Replicate Data: 1202056116|958725|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.789	1.789	0.0230	0.1092	0.0238	11:19:57	Yes
2	1.784	1.784	0.0229	0.1080	0.0237	11:20:27	Yes
Mean:	1.787	1.787	0.0230				
SD:	0.003	0.003	0.0000				
%RSD:	0.192	0.192	0.19				

Sequence No.: 81
Sample ID: 247899001|958725|1
Analyst: JXL

Autosampler Location: 71
Date Collected: 3/12/2010 11:20:46
Data Type: Original

Replicate Data: 247899001|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.270	0.270	0.0036	0.0198	0.0044	11:21:38	Yes
2	0.267	0.267	0.0036	0.0201	0.0044	11:22:08	Yes
Mean:	0.268	0.268	0.0036				
SD:	0.002	0.002	0.0000				
%RSD:	0.715	0.715	0.67				

Sequence No.: 82
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/12/2010 11:22:28
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.034	5.034	0.0643	0.2955	0.0651	11:23:18	Yes
2	4.999	4.999	0.0639	0.2926	0.0647	11:23:48	Yes
Mean:	5.016	5.016	0.0641				
SD:	0.024	0.024	0.0003				
%RSD:	0.488	0.488	0.49				

QC value within limits for Hg 253.7 Recovery = 100.33%
All analyte(s) passed QC.

Sequence No.: 83
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 11:24:07
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.015	-0.015	0.0000	0.0033	0.0008	11:24:57	Yes
2	-0.014	-0.014	0.0000	0.0037	0.0008	11:25:27	Yes
Mean:	-0.014	-0.014	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	5.343	5.343	26.71				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 84
Sample ID: 1202056117|958725|1
Analyst: JXL

Autosampler Location: 72
Date Collected: 3/12/2010 11:25:47
Data Type: Original

Replicate Data: 1202056117|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
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Sequence No.: 94
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/12/2010 11:42:42
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.022	5.022	0.0642	0.2936	0.0650	11:43:32	Yes
2	5.003	5.003	0.0639	0.2924	0.0647	11:44:02	Yes
Mean:	5.013	5.013	0.0640				
SD:	0.013	0.013	0.0002				
%RSD:	0.257	0.257	0.26				

QC value within limits for Hg 253.7 Recovery = 100.25%
All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 11:44:21
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0001	0.0031	0.0007	11:45:12	Yes
2	-0.025	-0.025	-0.0001	0.0030	0.0007	11:45:42	Yes
Mean:	-0.025	-0.025	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	4.905	4.905	15.57				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96
Sample ID: 247899008|958725|1
Analyst: JXL

Autosampler Location: 82
Date Collected: 3/12/2010 11:46:01
Data Type: Original

Replicate Data: 247899008|958725|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.207	0.207	0.0029	0.0167	0.0037	11:46:52	Yes
2	0.208	0.208	0.0029	0.0170	0.0037	11:47:22	Yes
Mean:	0.208	0.208	0.0029				
SD:	0.001	0.001	0.0000				
%RSD:	0.456	0.456	0.42				

Sequence No.: 97
Sample ID: 247899009|958725|1
Analyst: JXL

Autosampler Location: 83
Date Collected: 3/12/2010 11:47:42
Data Type: Original

Replicate Data: 247899009|958725|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.134	0.134	0.0019	0.0125	0.0027	11:48:33	Yes
2	0.133	0.133	0.0019	0.0124	0.0027	11:49:03	Yes
Mean:	0.134	0.134	0.0019				
SD:	0.001	0.001	0.0000				
%RSD:	0.753	0.753	0.67				

Sequence No.: 98
Sample ID: 247899010|958725|1
Analyst: JXL

Autosampler Location: 84
Date Collected: 3/12/2010 11:49:23
Data Type: Original

Replicate Data: 247899010|958725|1

Analyst: JXL

Data Type: Original

Replicate Data: 247899015|958725|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.378	0.378	0.0050	0.0269	0.0058	11:58:42	Yes
2	0.378	0.378	0.0050	0.0266	0.0058	11:59:12	Yes
Mean:	0.378	0.378	0.0050				
SD:	0.000	0.000	0.0000				
%RSD:	0.115	0.115	0.11				

Sequence No.: 104

Autosampler Location: 90

Sample ID: 247899016|958725|1

Date Collected: 3/12/2010 11:59:32

Analyst: JXL

Data Type: Original

Replicate Data: 247899016|958725|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.541	0.541	0.0071	0.0357	0.0079	12:00:24	Yes
2	0.545	0.545	0.0072	0.0358	0.0080	12:00:54	Yes
Mean:	0.543	0.543	0.0071				
SD:	0.003	0.003	0.0000				
%RSD:	0.552	0.552	0.54				

Sequence No.: 105

Autosampler Location: 91

Sample ID: 247899017|958725|1

Date Collected: 3/12/2010 12:01:14

Analyst: JXL

Data Type: Original

Replicate Data: 247899017|958725|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.151	0.151	0.0021	0.0130	0.0029	12:02:06	Yes
2	0.155	0.155	0.0022	0.0138	0.0030	12:02:35	Yes
Mean:	0.153	0.153	0.0022				
SD:	0.003	0.003	0.0000				
%RSD:	1.781	1.781	1.60				

Sequence No.: 106

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 12:02:56

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.016	5.016	0.0641	0.2943	0.0649	12:03:46	Yes
2	5.022	5.022	0.0642	0.2929	0.0650	12:04:15	Yes
Mean:	5.019	5.019	0.0641				
SD:	0.004	0.004	0.0001				
%RSD:	0.082	0.082	0.08				

QC value within limits for Hg 253.7 Recovery = 100.38%
All analyte(s) passed QC.

Sequence No.: 107

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 12:04:34

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0001	0.0028	0.0007	12:05:26	Yes
2	-0.024	-0.024	-0.0001	0.0032	0.0007	12:05:55	Yes
Mean:	-0.026	-0.026	-0.0001				

SD: 0.003 0.003 0.0000
%RSD: 10.46 10.46 29.14

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 108

Sample ID: 247899018|958725|1

Analyst: JXL

Autosampler Location: 92

Date Collected: 3/12/2010 12:06:15

Data Type: Original

Replicate Data: 247899018|958725|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.082	0.082	0.0013	0.0091	0.0021	12:07:07	Yes
2	0.085	0.085	0.0013	0.0095	0.0021	12:07:37	Yes
Mean:	0.084	0.084	0.0013				
SD:	0.002	0.002	0.0000				
%RSD:	2.616	2.616	2.18				

Sequence No.: 109

Sample ID: 247899019|958725|1

Analyst: JXL

Autosampler Location: 93

Date Collected: 3/12/2010 12:07:57

Data Type: Original

Replicate Data: 247899019|958725|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.918	0.918	0.0119	0.0582	0.0127	12:08:49	Yes
2	0.913	0.913	0.0118	0.0574	0.0126	12:09:18	Yes
Mean:	0.915	0.915	0.0119				
SD:	0.003	0.003	0.0000				
%RSD:	0.375	0.375	0.37				

Sequence No.: 110

Sample ID: 247899020|958725|1

Analyst: JXL

Autosampler Location: 94

Date Collected: 3/12/2010 12:09:39

Data Type: Original

Replicate Data: 247899020|958725|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.136	0.136	0.0019	0.0127	0.0027	12:10:30	Yes
2	0.139	0.139	0.0020	0.0129	0.0028	12:11:00	Yes
Mean:	0.137	0.137	0.0020				
SD:	0.002	0.002	0.0000				
%RSD:	1.345	1.345	1.20				

Sequence No.: 111

Sample ID: 1202056121|958728|1

Analyst: JXL

Autosampler Location: 95

Date Collected: 3/12/2010 12:11:20

Data Type: Original

Replicate Data: 1202056121|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.040	-0.040	-0.0003	0.0022	0.0005	12:12:12	Yes
2	-0.040	-0.040	-0.0003	0.0023	0.0005	12:12:42	Yes
Mean:	-0.040	-0.040	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	0.211	0.211	0.36				

Sequence No.: 112

Sample ID: 1202056122|958728|10

Analyst: JXL

Autosampler Location: 96

Date Collected: 3/12/2010 12:13:02

Data Type: Original

Replicate Data: 1202056122|958728|10

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.798	3.798	0.0486	0.2238	0.0494	12:13:54	Yes
2	3.757	3.757	0.0481	0.2222	0.0489	12:14:24	Yes
Mean:	3.778	3.778	0.0483				
SD:	0.029	0.029	0.0004				
%RSD:	0.761	0.761	0.76				

Sequence No.: 113

Sample ID: 247907001|958728|1

Analyst: JXL

Autosampler Location: 97

Date Collected: 3/12/2010 12:14:44

Data Type: Original

Replicate Data: 247907001|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.158	0.158	0.0022	0.0135	0.0030	12:15:36	Yes
2	0.159	0.159	0.0022	0.0137	0.0030	12:16:06	Yes
Mean:	0.158	0.158	0.0022				
SD:	0.001	0.001	0.0000				
%RSD:	0.505	0.505	0.46				

Sequence No.: 114

Sample ID: 1202056123|958728|1

Analyst: JXL

Autosampler Location: 98

Date Collected: 3/12/2010 12:16:26

Data Type: Original

Replicate Data: 1202056123|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.167	0.167	0.0023	0.0145	0.0031	12:17:18	Yes
2	0.161	0.161	0.0023	0.0140	0.0031	12:17:48	Yes
Mean:	0.164	0.164	0.0023				
SD:	0.004	0.004	0.0001				
%RSD:	2.443	2.443	2.22				

Sequence No.: 115

Sample ID: 1202056124|958728|1

Analyst: JXL

Autosampler Location: 99

Date Collected: 3/12/2010 12:18:09

Data Type: Original

Replicate Data: 1202056124|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.284	2.284	0.0293	0.1388	0.0301	12:19:00	Yes
2	2.291	2.291	0.0294	0.1379	0.0302	12:19:30	Yes
Mean:	2.287	2.287	0.0293				
SD:	0.005	0.005	0.0001				
%RSD:	0.220	0.220	0.22				

Sequence No.: 116

Sample ID: 1202056126|958728|1

Analyst: JXL

Autosampler Location: 100

Date Collected: 3/12/2010 12:19:51

Data Type: Original

Replicate Data: 1202056126|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.310	2.310	0.0296	0.1392	0.0304	12:20:42	Yes
2	2.294	2.294	0.0294	0.1383	0.0302	12:21:12	Yes
Mean:	2.302	2.302	0.0295				
SD:	0.012	0.012	0.0001				
%RSD:	0.503	0.503	0.50				

Sequence No.: 117

Autosampler Location: 101

Sample ID: 1202056125|958728|5
Analyst: JXL

Date Collected: 3/12/2010 12:21:33
Data Type: Original

Replicate Data: 1202056125|958728|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.006	-0.006	0.0001	0.0040	0.0009	12:22:24	Yes
2	-0.007	-0.007	0.0001	0.0042	0.0009	12:22:54	Yes
Mean:	-0.006	-0.006	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	10.22	10.22	5.78				

Sequence No.: 118

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 12:23:15

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.046	5.046	0.0645	0.2974	0.0653	12:24:05	Yes
2	5.061	5.061	0.0647	0.2954	0.0655	12:24:35	Yes
Mean:	5.054	5.054	0.0646				
SD:	0.011	0.011	0.0001				
%RSD:	0.216	0.216	0.21				

QC value within limits for Hg 253.7 Recovery = 101.08%
All analyte(s) passed QC.

Sequence No.: 119

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 12:24:54

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.027	-0.027	-0.0001	0.0029	0.0007	12:25:44	Yes
2	-0.027	-0.027	-0.0001	0.0027	0.0007	12:26:14	Yes
Mean:	-0.027	-0.027	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.122	0.122	0.32				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 120

Autosampler Location: 102

Sample ID: 247907002|958728|1

Date Collected: 3/12/2010 12:26:33

Analyst: JXL

Data Type: Original

Replicate Data: 247907002|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.112	0.112	0.0016	0.0119	0.0024	12:27:25	Yes
2	0.110	0.110	0.0016	0.0114	0.0024	12:27:55	Yes
Mean:	0.111	0.111	0.0016				
SD:	0.001	0.001	0.0000				
%RSD:	1.203	1.203	1.04				

Sequence No.: 121

Autosampler Location: 103

Sample ID: 247907003|958728|1

Date Collected: 3/12/2010 12:28:15

Analyst: JXL

Data Type: Original

Replicate Data: 247907003|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	0.420	0.420	0.0056	0.0286	0.0064	12:29:07	Yes
2	0.416	0.416	0.0055	0.0283	0.0063	12:29:37	Yes
Mean:	0.418	0.418	0.0055				
SD:	0.002	0.002	0.0000				
%RSD:	0.551	0.551	0.53				

Sequence No.: 122

Autosampler Location: 104

Sample ID: 247907004|958728|1

Date Collected: 3/12/2010 12:29:58

Analyst: JXL

Data Type: Original

Replicate Data: 247907004|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.084	0.084	0.0013	0.0093	0.0021	12:30:49	Yes
2	0.082	0.082	0.0013	0.0092	0.0021	12:31:19	Yes
Mean:	0.083	0.083	0.0013				
SD:	0.001	0.001	0.0000				
%RSD:	1.744	1.744	1.45				

Sequence No.: 123

Autosampler Location: 105

Sample ID: 247907005|958728|1

Date Collected: 3/12/2010 12:31:40

Analyst: JXL

Data Type: Original

Replicate Data: 247907005|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.149	0.149	0.0021	0.0131	0.0029	12:32:31	Yes
2	0.143	0.143	0.0020	0.0125	0.0028	12:33:01	Yes
Mean:	0.146	0.146	0.0021				
SD:	0.005	0.005	0.0001				
%RSD:	3.178	3.178	2.85				

Sequence No.: 124

Autosampler Location: 106

Sample ID: 247907006|958728|1

Date Collected: 3/12/2010 12:33:22

Analyst: JXL

Data Type: Original

Replicate Data: 247907006|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.110	0.110	0.0016	0.0109	0.0024	12:34:14	Yes
2	0.104	0.104	0.0015	0.0106	0.0023	12:34:44	Yes
Mean:	0.107	0.107	0.0016				
SD:	0.004	0.004	0.0000				
%RSD:	3.350	3.350	2.89				

Sequence No.: 125

Autosampler Location: 107

Sample ID: 247907007|958728|1

Date Collected: 3/12/2010 12:35:04

Analyst: JXL

Data Type: Original

Replicate Data: 247907007|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.160	0.160	0.0023	0.0135	0.0031	12:35:56	Yes
2	0.161	0.161	0.0023	0.0136	0.0031	12:36:26	Yes
Mean:	0.161	0.161	0.0023				
SD:	0.001	0.001	0.0000				
%RSD:	0.450	0.450	0.41				

Sequence No.: 126

Autosampler Location: 108

Sample ID: 247907008|958728|1

Date Collected: 3/12/2010 12:36:46

Analyst: JXL

Data Type: Original

Replicate Data: 247907008|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.264	0.264	0.0036	0.0204	0.0044	12:37:38	Yes
2	0.260	0.260	0.0035	0.0195	0.0043	12:38:08	Yes
Mean:	0.262	0.262	0.0036				
SD:	0.003	0.003	0.0000				
%RSD:	1.040	1.040	0.98				

Sequence No.: 127

Sample ID: 247907009|958728|1

Analyst: JXL

Autosampler Location: 109

Date Collected: 3/12/2010 12:38:29

Data Type: Original

Replicate Data: 247907009|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.320	0.320	0.0043	0.0224	0.0051	12:39:21	Yes
2	0.323	0.323	0.0043	0.0226	0.0051	12:39:51	Yes
Mean:	0.321	0.321	0.0043				
SD:	0.002	0.002	0.0000				
%RSD:	0.662	0.662	0.63				

Sequence No.: 128

Sample ID: 247907010|958728|1

Analyst: JXL

Autosampler Location: 110

Date Collected: 3/12/2010 12:40:11

Data Type: Original

Replicate Data: 247907010|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.161	0.161	0.0023	0.0137	0.0031	12:41:03	Yes
2	0.163	0.163	0.0023	0.0138	0.0031	12:41:33	Yes
Mean:	0.162	0.162	0.0023				
SD:	0.001	0.001	0.0000				
%RSD:	0.907	0.907	0.82				

Sequence No.: 129

Sample ID: 247907011|958728|1

Analyst: JXL

Autosampler Location: 111

Date Collected: 3/12/2010 12:41:53

Data Type: Original

Replicate Data: 247907011|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.167	0.167	0.0023	0.0139	0.0031	12:42:46	Yes
2	0.163	0.163	0.0023	0.0139	0.0031	12:43:15	Yes
Mean:	0.165	0.165	0.0023				
SD:	0.003	0.003	0.0000				
%RSD:	1.956	1.956	1.77				

Sequence No.: 130

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 12:43:36

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.056	5.056	0.0646	0.2990	0.0654	12:44:26	Yes
2	5.035	5.035	0.0643	0.2974	0.0651	12:44:56	Yes
Mean:	5.045	5.045	0.0645				
SD:	0.015	0.015	0.0002				
%RSD:	0.304	0.304	0.30				

QC value within limits for Hg 253.7 Recovery = 100.91%
All analyte(s) passed QC.

Sequence No.: 131
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 12:45:15
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.026	-0.026	-0.0001	0.0030	0.0007	12:46:05	Yes
2	-0.026	-0.026	-0.0001	0.0030	0.0007	12:46:35	Yes
Mean:	-0.026	-0.026	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.993	0.993	2.77				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 132
Sample ID: 247907012|958728|1
Analyst: JXL

Autosampler Location: 112
Date Collected: 3/12/2010 12:46:55
Data Type: Original

Replicate Data: 247907012|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.291	0.291	0.0039	0.0212	0.0047	12:47:47	Yes
2	0.287	0.287	0.0039	0.0209	0.0047	12:48:17	Yes
Mean:	0.289	0.289	0.0039				
SD:	0.003	0.003	0.0000				
%RSD:	0.878	0.878	0.83				

Sequence No.: 133
Sample ID: 247907013|958728|1
Analyst: JXL

Autosampler Location: 113
Date Collected: 3/12/2010 12:48:38
Data Type: Original

Replicate Data: 247907013|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.501	0.501	0.0066	0.0335	0.0074	12:49:29	Yes
2	0.505	0.505	0.0066	0.0334	0.0074	12:49:59	Yes
Mean:	0.503	0.503	0.0066				
SD:	0.002	0.002	0.0000				
%RSD:	0.476	0.476	0.46				

Sequence No.: 134
Sample ID: 247907014|958728|1
Analyst: JXL

Autosampler Location: 114
Date Collected: 3/12/2010 12:50:20
Data Type: Original

Replicate Data: 247907014|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.292	0.292	0.0039	0.0216	0.0047	12:51:11	Yes
2	0.293	0.293	0.0039	0.0215	0.0047	12:51:41	Yes
Mean:	0.292	0.292	0.0039				
SD:	0.000	0.000	0.0000				
%RSD:	0.085	0.085	0.08				

Sequence No.: 135
Sample ID: 247907015|958728|1
Analyst: JXL

Autosampler Location: 115
Date Collected: 3/12/2010 12:52:02
Data Type: Original

Replicate Data: 247907015|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	----------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.194	0.194	0.0027	0.0160	0.0035	12:52:54	Yes
2	0.196	0.196	0.0027	0.0157	0.0035	12:53:24	Yes
Mean:	0.195	0.195	0.0027				
SD:	0.001	0.001	0.0000				
%RSD:	0.715	0.715	0.66				

Sequence No.: 136
Sample ID: 247907016|958728|1
Analyst: JXL

Autosampler Location: 116
Date Collected: 3/12/2010 12:53:44
Data Type: Original

Replicate Data: 247907016|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.340	0.340	0.0045	0.0237	0.0053	12:54:37	Yes
2	0.340	0.340	0.0045	0.0236	0.0053	12:55:06	Yes
Mean:	0.340	0.340	0.0045				
SD:	0.001	0.001	0.0000				
%RSD:	0.152	0.152	0.15				

Sequence No.: 137
Sample ID: 247907017|958728|1
Analyst: JXL

Autosampler Location: 117
Date Collected: 3/12/2010 12:55:27
Data Type: Original

Replicate Data: 247907017|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.229	0.229	0.0031	0.0175	0.0039	12:56:19	Yes
2	0.231	0.231	0.0032	0.0178	0.0040	12:56:49	Yes
Mean:	0.230	0.230	0.0031				
SD:	0.001	0.001	0.0000				
%RSD:	0.496	0.496	0.46				

Sequence No.: 138
Sample ID: 1202068280|964089|1
Analyst: JXL

Autosampler Location: 118
Date Collected: 3/12/2010 12:57:10
Data Type: Original

Replicate Data: 1202068280|964089|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.057	-0.057	-0.0005	0.0011	0.0003	12:58:02	Yes
2	-0.058	-0.058	-0.0005	0.0012	0.0003	12:58:31	Yes
Mean:	-0.057	-0.057	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.347	0.347	0.49				

Sequence No.: 139
Sample ID: 1202068281|964089|1
Analyst: JXL

Autosampler Location: 119
Date Collected: 3/12/2010 12:58:52
Data Type: Original

Replicate Data: 1202068281|964089|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.187	2.187	0.0281	0.1307	0.0289	12:59:44	Yes
2	2.192	2.192	0.0281	0.1297	0.0289	13:00:14	Yes
Mean:	2.189	2.189	0.0281				
SD:	0.003	0.003	0.0000				
%RSD:	0.154	0.154	0.15				

Sequence No.: 140
Sample ID: 249093001|964089|1
Analyst: JXL

Autosampler Location: 120
Date Collected: 3/12/2010 13:00:35
Data Type: Original

Replicate Data: 249093001|964089|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.054	-0.054	-0.0005	0.0014	0.0003	13:01:27	Yes
2	-0.055	-0.055	-0.0005	0.0010	0.0003	13:01:57	Yes
Mean:	-0.055	-0.055	-0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	1.901	1.901	2.75				

Sequence No.: 141

Autosampler Location: 121

Sample ID: 1202068282|964089|1

Date Collected: 3/12/2010 13:02:17

Analyst: JXL

Data Type: Original

Replicate Data: 1202068282|964089|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.001	2.001	0.0257	0.1220	0.0265	13:03:10	Yes
2	1.998	1.998	0.0257	0.1213	0.0265	13:03:40	Yes
Mean:	2.000	2.000	0.0257				
SD:	0.002	0.002	0.0000				
%RSD:	0.100	0.100	0.10				

Sequence No.: 142

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 13:04:00

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.038	5.038	0.0644	0.2986	0.0652	13:04:50	Yes
2	5.054	5.054	0.0646	0.2980	0.0654	13:05:20	Yes
Mean:	5.046	5.046	0.0645				
SD:	0.011	0.011	0.0001				
%RSD:	0.224	0.224	0.22				

QC value within limits for Hg 253.7 Recovery = 100.91%

All analyte(s) passed QC.

Sequence No.: 143

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 13:05:39

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0001	0.0030	0.0007	13:06:30	Yes
2	-0.028	-0.028	-0.0001	0.0026	0.0007	13:06:59	Yes
Mean:	-0.027	-0.027	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.982	5.982	15.81				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 144

Autosampler Location: 122

Sample ID: 1202068283|964089|1

Date Collected: 3/12/2010 13:07:19

Analyst: JXL

Data Type: Original

Replicate Data: 1202068283|964089|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.982	1.982	0.0255	0.1205	0.0263	13:08:11	Yes
2	1.961	1.961	0.0252	0.1192	0.0260	13:08:41	Yes

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID:	958056.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Francena Armstrong			LCS	1202054510	Metals Soil LCS SRM 1CP/Hg	U1062540-1	.556	g
Method:	SW846 3050B			MS	1202054508	Metals Spike Mix I	U1100205-01	.25	mL
Lab SOP:	GL-MA-E-009 REV# 19			MS	1202054508	Metals Spike Mix II	U1100205-06	.25	mL
Instrument:	Sartorius Balance B-001			MSD	1202054509	Metals Spike Mix II	U1100205-06	.25	mL
				MSD	1202054509	Metals Spike Mix I	U11268741-01	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202054505 MB	02-MAR-2010 14:30:00	Soil	0.519	50	96.33911	
1202054510 LCS	02-MAR-2010 14:30:00	Soil	0.556	50	89.92806	
247907001	02-MAR-2010 14:30:00	Soil	0.563	50	88.80995	
1202054506 DUP (247907001)	02-MAR-2010 14:30:00	Soil	0.529	50	94.51796	
1202054507 SDILT (247907001)	02-MAR-2010 14:30:00	Soil	0.563	50	88.80995	
1202054508 MS (247907001)	02-MAR-2010 14:30:00	Soil	0.518	50	96.5251	
1202054509 MSD (247907001)	02-MAR-2010 14:30:00	Soil	0.537	50	93.10987	
247907002	02-MAR-2010 14:30:00	Soil	0.589	50	84.88964	
247907003	02-MAR-2010 14:30:00	Soil	0.568	50	88.02817	
247907004	02-MAR-2010 14:30:00	Soil	0.545	50	91.74312	
247907005	02-MAR-2010 14:30:00	Soil	0.563	50	88.80995	
247907006	02-MAR-2010 14:30:00	Soil	0.552	50	90.57971	
247907007	02-MAR-2010 14:30:00	Soil	0.558	50	89.60573	
247907008	02-MAR-2010 14:30:00	Soil	0.549	50	91.07468	
247907009	02-MAR-2010 14:30:00	Soil	0.531	50	94.16196	
247907010	02-MAR-2010 14:30:00	Soil	0.598	50	83.61204	
247907011	02-MAR-2010 14:30:00	Soil	0.547	50	91.40768	
247907012	02-MAR-2010 14:30:00	Soil	0.528	50	94.69697	
247907013	02-MAR-2010 14:30:00	Soil	0.528	50	94.69697	
247907014	02-MAR-2010 14:30:00	Soil	0.592	50	84.45946	
247907015	02-MAR-2010 14:30:00	Soil	0.591	50	84.60237	
247907016	02-MAR-2010 14:30:00	Soil	0.531	50	94.16196	
247907017	02-MAR-2010 14:30:00	Soil	0.568	50	88.02817	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 958056.0
Analyst: Francena Armstrong
Method: SW846 3050B
Lab SOP: GL-MA-E-009 REV# 19
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202054510	Metals Soil LCS SRM ICP/Hg	U1062540-1	.556	g
MS	1202054508	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202054508	Metals Spike Mix II	U1100205-06	.25	mL
MSD	1202054509	Metals Spike Mix II	U1100205-06	.25	mL
MSD	1202054509	Metals Spike Mix I	U11268741-01	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
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Reagent/Solvent Lot ID	Description	Amount	Comments:
1274969	Nitric Acid CONC.	1.25 mL	Dark brown soil.
1274973	HYDROCHLORIC ACID	10 mL	

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 958058.0 Verified by: _____ Lab SOP: GL-MA-E-009 REV# 19
 Analyst: Francena Armstrong Instrument: Sartorius Balance B-001
 Method: SW846 3050B

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
1202054516 MB	02-MAR-2010 14:30:00	0.5	50	100	
1202054521 LCS	02-MAR-2010 14:30:00	0.565	50	88.49558	
247907001	02-MAR-2010 14:30:00	0.526	50	95.05703	
1202054517 DUP (247907001)	02-MAR-2010 14:30:00	0.568	50	88.02817	
1202054518 SDILT (247907001)	02-MAR-2010 14:30:00	0.526	50	95.05703	
1202054519 MS (247907001)	02-MAR-2010 14:30:00	0.525	50	95.2381	
1202054520 MSD (247907001)	02-MAR-2010 14:30:00	0.527	50	94.87666	
247907002	02-MAR-2010 14:30:00	0.596	50	83.89262	
247907003	02-MAR-2010 14:30:00	0.591	50	84.60237	
247907004	02-MAR-2010 14:30:00	0.553	50	90.41591	
247907005	02-MAR-2010 14:30:00	0.537	50	93.10987	
247907006	02-MAR-2010 14:30:00	0.556	50	89.92806	
247907007	02-MAR-2010 14:30:00	0.555	50	90.09009	
247907008	02-MAR-2010 14:30:00	0.522	50	95.78544	
247907009	02-MAR-2010 14:30:00	0.528	50	94.69697	
247907010	02-MAR-2010 14:30:00	0.593	50	84.31703	
247907011	02-MAR-2010 14:30:00	0.549	50	91.07468	
247907012	02-MAR-2010 14:30:00	0.576	50	86.80556	
247907013	02-MAR-2010 14:30:00	0.541	50	92.42144	
247907014	02-MAR-2010 14:30:00	0.504	50	99.20635	
247907015	02-MAR-2010 14:30:00	0.503	50	99.40358	
247907016	02-MAR-2010 14:30:00	0.528	50	94.69697	
247907017	02-MAR-2010 14:30:00	0.523	50	95.60229	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202054521	Metals Soil LCS SRM ICPMS	U062540-MS	.565	g	
MS	1202054519	ICP-MS Spike for soil products.	U091015-A	.5	mL	Dark brown soil.
MS	1202054519	ICP-MS Spike for Soil Products	U091015-B	.5	mL	
MSD	1202054520	ICP-MS Spike for soil products.	U091015-A	.5	mL	
MSD	1202054520	ICP-MS Spike for Soil Products	U091015-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1274969	.5	mL	

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 967759.0
Analyst: Louis Hall
Method: SW846 3050B

Verified by: _____

Lab SOP: GL-MA-E-009 REV# 19
Instrument: Sartorius Balance B-001

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
1202082287 MB	29-MAR-2010 12:00:00	0.55	50	90.90909	<2
1202082288 LCS	29-MAR-2010 12:00:00	0.504	50	99.20635	<2
247907001 - 2	29-MAR-2010 12:00:00	0.532	50	93.98496	<2
1202054517 - 2 DUP (247907001)	29-MAR-2010 12:00:00	0.578	50	86.50519	<2
1202054518 - 2 SDILT (247907001)	29-MAR-2010 12:00:00	0.532	50	93.98496	<2
1202054519 - 2 MS (247907001)	29-MAR-2010 12:00:00	0.512	50	97.65625	<2
1202054520 - 2 MSD (247907001)	29-MAR-2010 12:00:00	0.546	50	91.57509	<2
247907002 - 2	29-MAR-2010 12:00:00	0.506	50	98.81423	<2
247907003 - 2	29-MAR-2010 12:00:00	0.548	50	91.24088	<2
247907004 - 2	29-MAR-2010 12:00:00	0.503	50	99.40358	<2
247907005 - 2	29-MAR-2010 12:00:00	0.584	50	85.61644	<2
247907006 - 2	29-MAR-2010 12:00:00	0.524	50	95.41985	<2
247907007 - 2	29-MAR-2010 12:00:00	0.578	50	86.50519	<2
247907008 - 2	29-MAR-2010 12:00:00	0.523	50	95.60229	<2
247907009 - 2	29-MAR-2010 12:00:00	0.512	50	97.65625	<2
247907010 - 2	29-MAR-2010 12:00:00	0.508	50	98.4252	<2
247907011 - 2	29-MAR-2010 12:00:00	0.543	50	92.08103	<2
247907012 - 2	29-MAR-2010 12:00:00	0.559	50	89.44544	<2
247907013 - 2	29-MAR-2010 12:00:00	0.561	50	89.12656	<2
247907014 - 2	29-MAR-2010 12:00:00	0.591	50	84.60237	<2
247907015 - 2	29-MAR-2010 12:00:00	0.537	50	93.10987	<2
247907016 - 2	29-MAR-2010 12:00:00	0.506	50	98.81423	<2
247907017 - 2	29-MAR-2010 12:00:00	0.578	50	86.50519	<2

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202082288	Metals Soil LCS SRM ICPMS	U062540-MS	.504	g	
MS	1202054519	ICP-MS Spike for soil products.	U11286780-A	.5	mL	
MS	1202054519	ICP-MS Spike for Soil Products	U11286784-B	.5	mL	
MSD	1202054520	ICP-MS Spike for soil products.	U11286780-A	.5	mL	
MSD	1202054520	ICP-MS Spike for Soil Products	U11286784-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1282566	.5	mL	

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958727.0
Analyst: Tara Griffin
Method: SW846 7471A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: BAL-002

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056122	Metals LCS Soil SRM	U1031809A	.202	g
MS	1202056124	Mercury soil working intermediate standard for MS	WHG100311-14	.3	mL
MSD	1202056126	Mercury soil working intermediate standard for MS	WHG100311-14	.3	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202056121 MB	11-MAR-2010 14:30:00	Soil	0.56	30	53.57143	
1202056122 LCS	11-MAR-2010 14:30:00	Soil	0.202	30	148.51485	
247907001	11-MAR-2010 14:30:00	Soil	0.515	30	58.25243	
1202056123 DUP (247907001)	11-MAR-2010 14:30:00	Soil	0.543	30	55.24862	
1202056124 MS (247907001)	11-MAR-2010 14:30:00	Soil	0.503	30	59.64215	
1202056126 MSD (247907001)	11-MAR-2010 14:30:00	Soil	0.527	30	56.926	
1202056125 SDILT (247907001)	11-MAR-2010 14:30:00	Soil	0.515	30	58.25243	
247907002	11-MAR-2010 14:30:00	Soil	0.555	30	54.05405	
247907003	11-MAR-2010 14:30:00	Soil	0.595	30	50.42017	
247907004	11-MAR-2010 14:30:00	Soil	0.594	30	50.50505	
247907005	11-MAR-2010 14:30:00	Soil	0.571	30	52.5394	
247907006	11-MAR-2010 14:30:00	Soil	0.533	30	56.28518	
247907007	11-MAR-2010 14:30:00	Soil	0.529	30	56.71078	
247907008	11-MAR-2010 14:30:00	Soil	0.507	30	59.1716	
247907009	11-MAR-2010 14:30:00	Soil	0.525	30	57.14286	
247907010	11-MAR-2010 14:30:00	Soil	0.554	30	54.15162	
247907011	11-MAR-2010 14:30:00	Soil	0.543	30	55.24862	
247907012	11-MAR-2010 14:30:00	Soil	0.593	30	50.59022	
247907013	11-MAR-2010 14:30:00	Soil	0.548	30	54.74453	
247907014	11-MAR-2010 14:30:00	Soil	0.527	30	56.926	
247907015	11-MAR-2010 14:30:00	Soil	0.5	30	60	
247907016	11-MAR-2010 14:30:00	Soil	0.599	30	50.08347	
247907017	11-MAR-2010 14:30:00	Soil	0.548	30	54.74453	

Reagent/Solvent Lot ID **Description** **Amount** **Comments:**
 1255532-C Hg reducing agent 2 mL Sample 247907001 is a rocky dark brown soil.

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 958727.0
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	1202056122	Metals LCS Soil SRM	U1031809A	.202	g
MS	1202056124	Mercury soil working intermediate standard for MS	WHG100311-14	.3	mL
MSD	1202056126	Mercury soil working intermediate standard for MS	WHG100311-14	.3	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check	1
125532-C	Hg reducing agent	2 mL					
1274391-1	NITRIC ACID	.375 mL					
1277235-A	Hydrochloric Acid Conc.	1.125 mL					
1277238-C	5% KMnO4 solution	7.5 mL					
WHG100311-07	Mercury Working Standard 1st Source CAL S	30 uL					
WHG100311-08	0.2/CRA						
WHG100311-09	Mercury Working Standard 1st Source CAL S	75 uL					
WHG100311-10	Mercury Working 1st Source CAL S 2.0	300 uL					
WHG100311-11	Mercury Working 1st Source CAL S 5.0/CCV	750 uL					
WHG100311-12	Mercury Working 1st Source CAL S 10.0	1.5 mL					
	Mercury Working 2nd Source S 5.0/CCV	750 uL					

Digestion Start Date: 11-MAR-10 14:30
 Digestion End Date: 11-MAR-10 15:00

DATA EXCEPTION REPORT

Mo. Day Yr.
25-MAR-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
ICP/MS

Test / Method:
SW846 3050B/6020

Matrix Type:
Solid

Client Code:
LANL

Batch ID:
958059

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 247907(10-2013)

Application Issues:

Failed Recovery for MS/PS

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MS/PS:

QC 1202054519MS

2. Failed Recovery for MSD/PSD:

QC 1202054520MSD

DER Disposition:

The matrix spike and matrix spike duplicate recovery failed outside of the control limits for Se 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:

Rose Jenkins

26-MAR-10

Data Validator/Group Leader:

Jamie Johnson

27-MAR-10

DATA EXCEPTION REPORT

Mo.Day Yr. 26-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: 958057	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 247907(10-2013)

Application Issues:

Failed RPD for DUP
Failed Recovery for MSD/PSD
Failed Recovery for LCS/LCSD
Failed Recovery for MS/PS
Failed RPD for MS/MSD, or PS/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MS/PS:
QC 1202054508MS
2. Failed RPD for DUP:
QC 1202054506DUP
3. Failed RPD for MS/MSD, or PS/PSD:
QC 1202054509MSD
4. Failed Recovery for LCS/LCSD:
QC 1202054510LCS
5. Failed Recovery for MSD/PSD:
QC 1202054509MSD

DER Disposition:

1. The matrix spike recovery failed outside of the control limits for calcium,magnesium,manganese,potassium and zinc 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 aluminum,barium,calcium,chromium,cobalt,copper,iron,lead, magnesium,manganese,potassium, vanadium and 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 magnesium due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.
4. Silver and/or antimony did not meet the recovery acceptance criteria for the LCS. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures.
5. The matrix spike duplicate recovery failed outside of the control limits for calcium,magnesium,manganese and potassium due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:

Helen Camello 26-MAR-10

Data Validator/Group Leader:

Nik-Cole Elmore 19-APR-10

DATA EXCEPTION REPORT

Mo. Day Yr. 16-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP/MS	Test / Method: SW846 3050B/6020	Matrix Type: Solid	Client Code: LANL
Batch ID: 969760	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247907(10-2013)			
Application Issues: Failed RPD for MS/MSD, or PS/PSD Failed RPD for DUP Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed RPD for DUP: QC 1202054517DUP 2. Failed RPD for MS/MSD, or PS/PSD: QC 1202054520MSD 3. Failed Recovery for MSD/PSD: QC 1202054520MSD		The matrix spike duplicate failed outside of the control limits for U. The matrix spike duplicate % RPD failed outside of the control limits for U. The sample and sample duplicate % RPD failed outside the control limits for U. These failures were 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:

Paul Boyd

17-APR-10

Data Validator/Group Leader:

Jamie Johnson

19-APR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Standard Logbook

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR,HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: 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: O2si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI091015-B **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: 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: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100310-48 **Opened:** 19-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 12-MAR-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 19-MAR-11 **Lot Number :** 1019141
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si

Standard Logbook

Description: Trace ICP Interferent Check Standard A

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI100317-08 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-MAR-10 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019163
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI

Standard Logbook

Description: ICPMS ICV/CCV Soln C - 10ppm

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI100318-11 **Opened:** 18-MAR-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 18-MAR-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 15-APR-10 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 02SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

Serial ID: UI100405-12 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 05-APR-10 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019466
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Standard Logbook

Serial ID: UI100405-13 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 05-APR-10 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019467
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: O2SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI100405-60 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Serial ID: UI100405-61 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UI1268741-01 **Opened:** 11-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 11-FEB-10
Type: Source Material **Expires:** 11-FEB-11
Employee: Bryan Davis
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI1286780-A **Opened:** 16-MAR-10 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 16-MAR-10 **Lot Number :** 1017435
Type: Source Material **Expires:** 16-MAR-11
Employee: Bryan Davis
Supplier: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI1286784-B **Opened:** 16-MAR-10 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 16-MAR-10 **Lot Number :** 1017435
Type: Source Material **Expires:** 16-MAR-11
Employee: Bryan Davis
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Standard Logbook

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100311-01 **Opened:** 11-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 11-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 12-MAR-10 **Solvent :** 1mL HNO3 + TypeI H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100311-02 **Opened:** 11-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 12-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100311-07 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.2CRA **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.2/CRA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100311-08 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100311-09 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100311-10 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 5.0/CCV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100311-11 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL S 10.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Standard Logbook

Serial ID: WHG100311-12 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 2nd Source S 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100311-14 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100325-42 **Opened:** 25-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
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.
WI100325-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100325-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100325-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100325-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100325-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100325-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100325-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100325-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100325-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100325-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100325-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100325-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100325-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100325-43 **Opened:** 25-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100325-44 **Opened:** 25-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1289705
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: W100325-45 **Opened:** 25-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
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: W100325-46 **Opened:** 25-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1289705
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100325-47 **Opened:** 25-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expres:** 26-MAR-10 **Solvent :** 3%HCL &1%HNO3-1289705
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100323-04AB **Opened:** 23-MAR-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 23-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 24-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1289731
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100323-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100323-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100323-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100323-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100323-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WMS100323-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100323-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100323-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100323-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100323-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100323-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100323-04B **Opened:** 23-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 23-MAR-10 **Balance Id :** 40245216
Type: Working **Expires:** 24-MAR-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1289731
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100323-05B **Opened:** 23-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 23-MAR-10 **Pipet Id :** 1758088
Type: Working **Expres:** 24-MAR-10 **Solvent :** 2%HNO3/1%HCl- 1289731
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100323-06B **Opened:** 23-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 23-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 24-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1289731
Employee: Rose Jenkins **Verified:** 06-MAR-10
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100323-07B **Opened:** 23-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 23-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 24-MAR-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1289731
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100323-08B **Opened:** 23-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 23-MAR-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 24-MAR-10 **Solvent :** 2%HNO3/1%HCl- 1289731
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100324-04 **Opened:** 24-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 24-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 25-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1289731
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: WMS100324-04AB **Opened:** 24-MAR-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 24-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 25-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1289731
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100324-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100324-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100324-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100324-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100324-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
WMS100324-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100324-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100324-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100324-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100324-04B **Opened:** 24-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 24-MAR-10 **Balance Id :** 40245216
Type: Working **Expires:** 25-MAR-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1289731
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100324-05B **Opened:** 24-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 24-MAR-10 **Pipet Id :** 1758088
Type: Working **Expres:** 25-MAR-10 **Solvent :** 2%HNO3/1%HCl- 1289731
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100324-06B **Opened:** 24-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 24-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 25-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1289731
Employee: Rose Jenkins **Verified:** 06-MAR-10
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100324-07B **Opened:** 24-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 24-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 25-MAR-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1289731
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100324-08B **Opened:** 24-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 24-MAR-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 25-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1289731
Employee: Rose Jenkins
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100415-04 **Opened:** 15-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 15-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 16-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1300209
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100415-04A **Opened:** 15-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 15-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100415-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100415-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100415-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100415-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100415-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100415-05 **Opened:** 15-APR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 15-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100415-06 **Opened:** 15-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 15-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 16-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100415-07 **Opened:** 15-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 15-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 16-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1300209
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100415-08 **Opened:** 15-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 15-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 16-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Serial ID: WMS100415-70 **Opened:** 15-APR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 15-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 16-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100405-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: 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

Standard Logbook

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

Serial ID: 1255532-C Opened: 15-JAN-10 Balance Id : BAL-002

Name: B-NaCl.NH2OH.HCl-MER Received: 15-JAN-10

Type: Reagent/Solvent Expires: 15-JUL-10

Employee: Tara Griffin

Supplier: GEL

Description: Hg reducing agent

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Standard Logbook

Serial ID: 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: 1274969 **Opened:** 24-FEB-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1274973 **Opened:** 24-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 24-FEB-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1277235-A **Opened:** 01-MAR-10 **Lot Number :** J02039
Name: B-HCI-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 01-MAR-11
Employee: Tara Griffin
Supplier: J T Baker
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1277238-C **Opened:** 01-MAR-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Standard Logbook

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: 1282566 **Opened:** 09-MAR-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 09-MAR-10
Type: Reagent/Solvent **Expires:** 09-MAR-11
Employee: Anthony Green
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1289705 **Opened:** 22-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 12-MAR-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 28-MAR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1289731 **Opened:** 22-MAR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCL-ICPMS **Received:** 22-MAR-10
Type: Reagent/Solvent **Expires:** 29-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.
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1277916	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1291278 **Opened:** 25-MAR-10 **Lot Number :** J 08035 L
Name: I-HNO3 **Received:** 25-MAR-10
Type: Reagent/Solvent **Expires:** 25-MAR-11
Employee: Anthony Green
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Standard Logbook

Serial ID: 1300209 **Opened:** 12-APR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 12-APR-10
Type: Reagent/Solvent **Expires:** 19-APR-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1277916	I-HCL	36.5-38.0	90 mL	9 l	N/A
1291278	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2013-1**

Sample Analysis

Sample ID	Client ID
247908001	RE15-10-8089
247908002	RE15-10-8086
247908003	RE15-10-8088
1202054534	Method Blank (MB) ICP
1202054535	Laboratory Control Sample (LCS)
1202054538	247919001(RE46-10-13376L) Serial Dilution (SD)
1202054536	247919001(RE46-10-13376D) Sample Duplicate (DUP)
1202054537	247919001(RE46-10-13376S) Matrix Spike (MS)
1202054539	Method Blank (MB) ICP-MS
1202054540	Laboratory Control Sample (LCS)
1202054543	247919001(RE46-10-13376L) Serial Dilution (SD)
1202054541	247919001(RE46-10-13376D) Sample Duplicate (DUP)
1202054542	247919001(RE46-10-13376S) Matrix Spike (MS)
1202056223	Method Blank (MB) CVAA
1202056224	Laboratory Control Sample (LCS)
1202056227	247771001(RE15-10-8272L) Serial Dilution (SD)
1202056225	247771001(RE15-10-8272D) Sample Duplicate (DUP)
1202056226	247771001(RE15-10-8272S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch: 958066, 958068 and 958777
Prep Batch : 958065, 958067 and 958775
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-Mercury was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 253.7 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80 mL/min.

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standards met the advisory control limits with the exceptions of thallium and uranium, which recovered outside of the advisory limits of 70-130%.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

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

The MBs analyzed with this SDG met the acceptance criteria with the exception of zinc, however, no samples in this SDG contained zinc at concentrations above the CRDL, therefore the data was not adversely affected.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 247919001 (RE46-10-13376) and 247771001 (RE15-10-8272).

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 are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: 808000. A copy is included in the Miscellaneous Data section of this package.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Kirsten Fauson Date: 4/22/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247908001

BASIS: As Received

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8089

LEVEL: Low

DATE RECEIVED 24-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	03/22/10 17:44	032210-1	958066
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	PRB	04/21/10 21:00	100421-5	958068
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-70-2	Calcium	64.6	ug/L	J	50	200	200	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-50-8	Copper	4.22	ug/L	J	3	10	10	1	P	HSC	03/22/10 17:44	032210-1	958066
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/22/10 17:44	032210-1	958066
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	PRB	04/21/10 16:59	100421-2	958068
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/22/10 17:44	032210-1	958066
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	PRB	04/21/10 16:59	100421-2	958068
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/03/10 11:42	030310W2-6	958777
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-09-7	Potassium	200	ug/L		50	150	150	1	P	HSC	03/22/10 17:44	032210-1	958066
7782-49-2	Selenium	6.72	ug/L	J	5	30	30	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-23-5	Sodium	242	ug/L	J	100	300	300	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-28-0	Thallium	0.477	ug/L	J	0.3	1	1	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/21/10 16:59	100421-2	958068
7440-62-2	Vanadium	1.08	ug/L	J	1	5	5	1	P	HSC	03/22/10 17:44	032210-1	958066
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/22/10 17:44	032210-1	958066

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958066	958065	SW846 3005A	50	mL	50	mL	03/01/10	BXA1
958068	958067	SW846 3005A	50	mL	50	mL	03/02/10	FGA
958777	958775	SW846 7470A Prep	20	mL	20	mL	03/02/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247908002

BASIS: As Received

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8086

LEVEL: Low

DATE RECEIVED 24-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	03/22/10 17:51	032210-1	958066
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	PRB	04/21/10 21:02	100421-5	958068
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-70-2	Calcium	76.4	ug/L	J	50	200	200	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-50-8	Copper	4.48	ug/L	J	3	10	10	1	P	HSC	03/22/10 17:51	032210-1	958066
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/22/10 17:51	032210-1	958066
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	PRB	04/21/10 17:02	100421-2	958068
7439-95-4	Magnesium	98	ug/L	J	85	300	300	1	P	HSC	03/22/10 17:51	032210-1	958066
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	PRB	04/21/10 17:02	100421-2	958068
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/03/10 11:44	030310W2-6	958777
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-09-7	Potassium	165	ug/L		50	150	150	1	P	HSC	03/22/10 17:51	032210-1	958066
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-23-5	Sodium	237	ug/L	J	100	300	300	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/21/10 17:02	100421-2	958068
7440-62-2	Vanadium	1.14	ug/L	J	1	5	5	1	P	HSC	03/22/10 17:51	032210-1	958066
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/22/10 17:51	032210-1	958066

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958066	958065	SW846 3005A	50	mL	50	mL	03/01/10	BXA1
958068	958067	SW846 3005A	50	mL	50	mL	03/02/10	FGA
958777	958775	SW846 7470A Prep	20	mL	20	mL	03/02/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2013-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247908003

BASIS: As Received

DATE COLLECTED 18-FEB-10

CLIENT ID: RE15-10-8088

LEVEL: Low

DATE RECEIVED 24-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	03/22/10 17:57	032210-1	958066
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	PRB	04/21/10 21:04	100421-5	958068
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-70-2	Calcium	65	ug/L	J	50	200	200	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-50-8	Copper	7.45	ug/L	J	3	10	10	1	P	HSC	03/22/10 17:57	032210-1	958066
7439-89-6	Iron	76.1	ug/L	J	30	100	100	1	P	HSC	03/22/10 17:57	032210-1	958066
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	PRB	04/21/10 17:05	100421-2	958068
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/22/10 17:57	032210-1	958066
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	PRB	04/21/10 17:05	100421-2	958068
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JX1.1	03/03/10 11:46	030310W2-6	958777
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-09-7	Potassium	157	ug/L		50	150	150	1	P	HSC	03/22/10 17:57	032210-1	958066
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-23-5	Sodium	216	ug/L	J	100	300	300	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-61-1	Uranium	0.109	ug/L	J	0.05	0.2	0.2	1	MS	PRB	04/21/10 17:05	100421-2	958068
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/22/10 17:57	032210-1	958066
7440-66-6	Zinc	6.35	ug/L	J	3.3	10	10	1	P	HSC	03/22/10 17:57	032210-1	958066

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958066	958065	SW846 3005A	50	mL	50	mL	03/01/10	BXA1
958068	958067	SW846 3005A	50	mL	50	mL	03/02/10	FGA
958777	958775	SW846 7470A Prep	20	mL	20	mL	03/02/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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	5.03	ug/L	5	ug/L	100.6	90.0 – 110.0	AV	03-MAR-10 10:32	030310W2-6
	Aluminum	5010	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Arsenic	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Barium	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Calcium	5010	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Cobalt	523	ug/L	500	ug/L	104.5	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Copper	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Iron	5170	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Magnesium	5410	ug/L	5000	ug/L	108.2	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Nickel	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Potassium	2510	ug/L	2500	ug/L	100.5	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Selenium	2590	ug/L	2500	ug/L	103.5	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Silver	267	ug/L	250	ug/L	106.9	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Sodium	2540	ug/L	2500	ug/L	101.8	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Vanadium	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Zinc	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	22-MAR-10 07:34	032210-1
	Antimony	49.3	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	21-APR-10 16:28	100421-2
	Cadmium	50.6	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	21-APR-10 16:28	100421-2
	Lead	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	21-APR-10 16:28	100421-2
	Manganese	51.7	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	21-APR-10 16:28	100421-2
	Thallium	50.4	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	21-APR-10 16:28	100421-2
	Uranium	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	21-APR-10 16:28	100421-2
	Beryllium	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	21-APR-10 20:41	100421-5
CCV01										
	Mercury	5.12	ug/L	5	ug/L	102.5	80.0 – 120.0	AV	03-MAR-10 10:38	030310W2-6
	Aluminum	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Arsenic	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	22-MAR-10 08:22	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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	500	ug/L	500	ug/L	100	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Cobalt	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Copper	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Iron	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Nickel	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Potassium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Selenium	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Silver	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Sodium	10300	ug/L	10000	ug/L	103.4	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Vanadium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Zinc	495	ug/L	500	ug/L	98.9	90.0 – 110.0	P	22-MAR-10 08:22	032210-1
	Antimony	49.5	ug/L	50	ug/L	99.1	90.0 – 110.0	MS	21-APR-10 16:45	100421-2
	Cadmium	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	21-APR-10 16:45	100421-2
	Lead	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	21-APR-10 16:45	100421-2
	Manganese	51.7	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	21-APR-10 16:45	100421-2
	Thallium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	21-APR-10 16:45	100421-2
	Uranium	52.9	ug/L	50	ug/L	105.7	90.0 – 110.0	MS	21-APR-10 16:45	100421-2
	Beryllium	53	ug/L	50	ug/L	106	90.0 – 110.0	MS	21-APR-10 20:51	100421-5
CCV02	Mercury	5.41	ug/L	5	ug/L	108.2	80.0 – 120.0	AV	03-MAR-10 11:02	030310W2-6
	Aluminum	4850	ug/L	5000	ug/L	97	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Arsenic	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Barium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Chromium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Cobalt	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Copper	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Iron	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	22-MAR-10 08:51	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Selenium	515	ug/L	500	ug/L	103	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Silver	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Sodium	10200	ug/L	10000	ug/L	102.3	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Vanadium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Zinc	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	22-MAR-10 08:51	032210-1
	Antimony	49	ug/L	50	ug/L	97.9	90.0 – 110.0	MS	21-APR-10 17:26	100421-2
	Cadmium	50.8	ug/L	50	ug/L	101.5	90.0 – 110.0	MS	21-APR-10 17:26	100421-2
	Lead	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	21-APR-10 17:26	100421-2
	Manganese	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	21-APR-10 17:26	100421-2
	Thallium	50.1	ug/L	50	ug/L	100.1	90.0 – 110.0	MS	21-APR-10 17:26	100421-2
	Uranium	53.6	ug/L	50	ug/L	107.3	90.0 – 110.0	MS	21-APR-10 17:26	100421-2
	Beryllium	52.3	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	21-APR-10 21:16	100421-5
CCV03										
	Mercury	5.14	ug/L	5	ug/L	102.8	80.0 – 120.0	AV	03-MAR-10 11:26	030310W2-6
	Aluminum	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Arsenic	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Barium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Calcium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Copper	495	ug/L	500	ug/L	98.9	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Magnesium	5190	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Nickel	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Selenium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Silver	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Sodium	9980	ug/L	10000	ug/L	99.8	90.0 – 110.0	P	22-MAR-10 09:48	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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>
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
	Zinc	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	22-MAR-10 09:48	032210-1
CCV04										
	Mercury	5.19	ug/L	5	ug/L	103.7	80.0 – 120.0	AV	03-MAR-10 11:50	030310W2-6
	Aluminum	4880	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Arsenic	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Barium	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Calcium	4960	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Chromium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Cobalt	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Copper	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Iron	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Magnesium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Nickel	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Potassium	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Selenium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Silver	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Sodium	10000	ug/L	10000	ug/L	100	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Vanadium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
	Zinc	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	22-MAR-10 11:07	032210-1
CCV05										
	Aluminum	4880	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Arsenic	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Barium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Cobalt	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Copper	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Iron	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	22-MAR-10 12:02	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Potassium	5040	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Selenium	525	ug/L	500	ug/L	105	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Silver	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Sodium	9730	ug/L	10000	ug/L	97.3	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Vanadium	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
	Zinc	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	22-MAR-10 12:02	032210-1
CCV06										
	Aluminum	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Arsenic	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Barium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Calcium	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Cobalt	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Copper	500	ug/L	500	ug/L	100	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Iron	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Magnesium	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Nickel	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Potassium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Selenium	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Silver	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Vanadium	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
	Zinc	500	ug/L	500	ug/L	100	90.0 – 110.0	P	22-MAR-10 13:04	032210-1
CCV07										
	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Arsenic	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Barium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	22-MAR-10 14:07	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Copper	500	ug/L	500	ug/L	100	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Magnesium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Nickel	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Potassium	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Selenium	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Silver	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Sodium	10000	ug/L	10000	ug/L	100.1	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Vanadium	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
	Zinc	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	22-MAR-10 14:07	032210-1
CCV08	Aluminum	4970	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Arsenic	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Calcium	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Cobalt	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Copper	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Iron	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Magnesium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Nickel	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Potassium	5200	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Selenium	518	ug/L	500	ug/L	103.7	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Silver	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Sodium	9910	ug/L	10000	ug/L	99.2	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
	Zinc	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	22-MAR-10 15:03	032210-1
CCV09	Aluminum	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	22-MAR-10 16:05	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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	515	ug/L	500	ug/L	103	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Barium	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Chromium	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Cobalt	517	ug/L	500	ug/L	103.3	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Copper	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Magnesium	5220	ug/L	5000	ug/L	104.4	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Nickel	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Selenium	530	ug/L	500	ug/L	106.1	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Silver	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Sodium	9770	ug/L	10000	ug/L	97.7	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Vanadium	512	ug/L	500	ug/L	102.4	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
	Zinc	505	ug/L	500	ug/L	100.9	90.0 - 110.0	P	22-MAR-10 16:05	032210-1
CCV10	Aluminum	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Arsenic	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Barium	510	ug/L	500	ug/L	102	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Calcium	5010	ug/L	5000	ug/L	100.3	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Chromium	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Copper	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Iron	5060	ug/L	5000	ug/L	101.1	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Magnesium	5160	ug/L	5000	ug/L	103.3	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Nickel	516	ug/L	500	ug/L	103.2	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Potassium	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Selenium	523	ug/L	500	ug/L	104.7	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Silver	505	ug/L	500	ug/L	101	90.0 - 110.0	P	22-MAR-10 17:15	032210-1
	Sodium	10100	ug/L	10000	ug/L	100.6	90.0 - 110.0	P	22-MAR-10 17:15	032210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,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>
CCV11	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	22-MAR-10 17:15	032210-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	22-MAR-10 17:15	032210-1
	Aluminum	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Arsenic	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Barium	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Calcium	5120	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Chromium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Cobalt	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Copper	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Iron	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Magnesium	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Nickel	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Selenium	522	ug/L	500	ug/L	104.5	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Silver	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Sodium	10200	ug/L	10000	ug/L	101.6	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	22-MAR-10 18:39	032210-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	22-MAR-10 18:39	032210-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS3,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	.156	ug/L	.2	ug/L	77.8	70.0 – 130.0	AV	03-MAR-10 10:36	030310W2-6
	Lead	2.39	ug/L	2	ug/L	119.4	70.0 – 130.0	MS	21-APR-10 16:35	100421-2
	Manganese	5.93	ug/L	5	ug/L	118.6	70.0 – 130.0	MS	21-APR-10 16:35	100421-2
	Antimony	2.94	ug/L	3	ug/L	98	70.0 – 130.0	MS	21-APR-10 16:35	100421-2
	Uranium	.291	ug/L	.2	ug/L	145.5	70.0 – 130.0	MS	21-APR-10 16:35	100421-2
	Cadmium	1.23	ug/L	1	ug/L	123.2	70.0 – 130.0	MS	21-APR-10 16:35	100421-2
	Thallium	1.32	ug/L	1	ug/L	131.6	70.0 – 130.0	MS	21-APR-10 16:35	100421-2
	Beryllium	.524	ug/L	.5	ug/L	104.8	70.0 – 130.0	MS	21-APR-10 20:45	100421-5
PQL01										
	Aluminum	203	ug/L	200	ug/L	101.3	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Iron	123	ug/L	100	ug/L	123.1	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Magnesium	390	ug/L	300	ug/L	130	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Nickel	5.8	ug/L	5	ug/L	116	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Potassium	127	ug/L	150	ug/L	84.9	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Silver	5.09	ug/L	5	ug/L	101.7	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Sodium	298	ug/L	300	ug/L	99.4	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Arsenic	27.3	ug/L	30	ug/L	91	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Barium	5.19	ug/L	5	ug/L	103.9	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Chromium	5.05	ug/L	5	ug/L	101	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Cobalt	5.37	ug/L	5	ug/L	107.4	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Copper	10.2	ug/L	10	ug/L	101.5	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Vanadium	5.87	ug/L	5	ug/L	117.5	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Zinc	11.3	ug/L	10	ug/L	112.7	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Calcium	208	ug/L	200	ug/L	104.2	70.0 – 130.0	P	22-MAR-10 07:48	032210-1
	Selenium	36.1	ug/L	30	ug/L	120.3	70.0 – 130.0	P	22-MAR-10 07:48	032210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	03-MAR-10 10:34	030310W2-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 07:40	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 07:40	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 07:40	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 07:40	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 07:40	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 07:40	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 07:40	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 07:40	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 07:40	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 07:40	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 07:40	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 07:40	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 07:40	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 07:40	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 07:40	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 07:40	032210-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	21-APR-10 16:32	100421-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	21-APR-10 16:32	100421-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-APR-10 16:32	100421-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-APR-10 16:32	100421-2
	Thallium	0.473	+/-1	J	0.3	1.0	LIQ	MS	21-APR-10 16:32	100421-2
	Uranium	0.05	+/- .2	U	0.05	0.2	LIQ	MS	21-APR-10 16:32	100421-2
	Beryllium	0.1	+/- .5	U	0.1	0.5	LIQ	MS	21-APR-10 20:43	100421-5
CCB01	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	03-MAR-10 10:40	030310W2-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 08:29	032210-1
	Arsenic	8.79	+/-30	J	5.0	30.0	LIQ	P	22-MAR-10 08:29	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:29	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 08:29	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:29	032210-1

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<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	22-MAR-10 08:29	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 08:29	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 08:29	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 08:29	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 08:29	032210-1
	Potassium	94.5	+/-150	J	50.0	150	LIQ	P	22-MAR-10 08:29	032210-1
	Selenium	5.27	+/-30	J	5.0	30.0	LIQ	P	22-MAR-10 08:29	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:29	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 08:29	032210-1
	Vanadium	1.27	+/-5	J	1.0	5.0	LIQ	P	22-MAR-10 08:29	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 08:29	032210-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	21-APR-10 16:49	100421-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	21-APR-10 16:49	100421-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-APR-10 16:49	100421-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-APR-10 16:49	100421-2
	Thallium	0.444	+/-1	J	0.3	1.0	LIQ	MS	21-APR-10 16:49	100421-2
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	21-APR-10 16:49	100421-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	21-APR-10 20:53	100421-5
CCB02	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	03-MAR-10 11:04	030310W2-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 08:58	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 08:58	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:58	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 08:58	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:58	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:58	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 08:58	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 08:58	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 08:58	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 08:58	032210-1
	Potassium	65.45	+/-150	J	50.0	150	LIQ	P	22-MAR-10 08:58	032210-1

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	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 08:58	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:58	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 08:58	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 08:58	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 08:58	032210-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	21-APR-10 17:29	100421-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	21-APR-10 17:29	100421-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-APR-10 17:29	100421-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-APR-10 17:29	100421-2
	Thallium	0.733	+/-1	J	0.3	1.0	LIQ	MS	21-APR-10 17:29	100421-2
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	21-APR-10 17:29	100421-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	21-APR-10 21:18	100421-5
CCB03	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	03-MAR-10 11:28	030310W2-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 09:55	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 09:55	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 09:55	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 09:55	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 09:55	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 09:55	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 09:55	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 09:55	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 09:55	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 09:55	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 09:55	032210-1
	Selenium	6.11	+/-30	J	5.0	30.0	LIQ	P	22-MAR-10 09:55	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 09:55	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 09:55	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 09:55	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 09:55	032210-1

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CCB04										
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	03-MAR-10 11:52	030310W2-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 11:14	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 11:14	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 11:14	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 11:14	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 11:14	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 11:14	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 11:14	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 11:14	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 11:14	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 11:14	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 11:14	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 11:14	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 11:14	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 11:14	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 11:14	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 11:14	032210-1
CCB05										
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 12:09	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 12:09	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 12:09	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 12:09	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 12:09	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 12:09	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 12:09	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 12:09	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 12:09	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 12:09	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 12:09	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 12:09	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 12:09	032210-1

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CCB06	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 12:09	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 12:09	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 12:09	032210-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 13:11	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 13:11	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 13:11	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 13:11	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 13:11	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 13:11	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 13:11	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 13:11	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 13:11	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 13:11	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 13:11	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 13:11	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 13:11	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 13:11	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 13:11	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 13:11	032210-1
CCB07	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 14:14	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 14:14	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 14:14	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 14:14	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 14:14	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 14:14	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 14:14	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 14:14	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 14:14	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 14:14	032210-1

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CCB08	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 14:14	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 14:14	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 14:14	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 14:14	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 14:14	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 14:14	032210-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 15:10	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 15:10	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 15:10	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 15:10	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 15:10	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 15:10	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 15:10	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 15:10	032210-1
	Magnesium	95.25	+/-300	J	85.0	300	LIQ	P	22-MAR-10 15:10	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 15:10	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 15:10	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 15:10	032210-1
CCB09	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 15:10	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 15:10	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 15:10	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 15:10	032210-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 16:12	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 16:12	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 16:12	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 16:12	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 16:12	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 16:12	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 16:12	032210-1

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	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 16:12	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 16:12	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 16:12	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 16:12	032210-1
	Selenium	5.03	+/-30	J	5.0	30.0	LIQ	P	22-MAR-10 16:12	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 16:12	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 16:12	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 16:12	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 16:12	032210-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 17:22	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 17:22	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 17:22	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 17:22	032210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 17:22	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 17:22	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 17:22	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 17:22	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 17:22	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 17:22	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 17:22	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 17:22	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 17:22	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 17:22	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 17:22	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 17:22	032210-1
CCB11	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	22-MAR-10 18:46	032210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 18:46	032210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 18:46	032210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	22-MAR-10 18:46	032210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2013-1

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>
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 18:46	032210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 18:46	032210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	22-MAR-10 18:46	032210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	22-MAR-10 18:46	032210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	22-MAR-10 18:46	032210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	22-MAR-10 18:46	032210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	22-MAR-10 18:46	032210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	22-MAR-10 18:46	032210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 18:46	032210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	22-MAR-10 18:46	032210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	22-MAR-10 18:46	032210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	22-MAR-10 18:46	032210-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-2013-1

Contract: LANL01004

Matrix: WATER

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202054534								
	Arsenic	5	ug/L	+/-30	U	P	5	30
	Barium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
	Chromium	1	ug/L	+/-5	U	P	1	5
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Copper	3	ug/L	+/-10	U	P	3	10
	Iron	30	ug/L	+/-100	U	P	30	100
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Aluminum	68	ug/L	+/-200	U	P	68	200
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	5.27	ug/L	+/-30	J	P	5	30
	Silver	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Zinc	20.9	ug/L	+/-10		P	3.3	10
1202054539								
	Antimony	1	ug/L	+/-3	U	MS	1	3
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Cadmium	0.11	ug/L	+/-1	U	MS	0.11	1
	Lead	0.5	ug/L	+/-2	U	MS	0.5	2
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Thallium	0.3	ug/L	+/-1	U	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2
1202056223								
	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2

METALS

-4-

Interference Check Sample

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	506000	ug/L	500000	ug/L	101	80.0 – 120.0	22-MAR-10 07:55	032210-1
	Arsenic	15.2	ug/L					22-MAR-10 07:55	032210-1
	Barium	0.517	ug/L					22-MAR-10 07:55	032210-1
	Calcium	470000	ug/L	500000	ug/L	94	80.0 – 120.0	22-MAR-10 07:55	032210-1
	Chromium	-0.744	ug/L					22-MAR-10 07:55	032210-1
	Cobalt	-1.17	ug/L					22-MAR-10 07:55	032210-1
	Copper	3.07	ug/L					22-MAR-10 07:55	032210-1
	Iron	185000	ug/L	200000	ug/L	92.6	80.0 – 120.0	22-MAR-10 07:55	032210-1
	Magnesium	487000	ug/L	500000	ug/L	97.4	80.0 – 120.0	22-MAR-10 07:55	032210-1
	Nickel	3.8	ug/L					22-MAR-10 07:55	032210-1
	Potassium	-178.0	ug/L					22-MAR-10 07:55	032210-1
	Selenium	39.7	ug/L					22-MAR-10 07:55	032210-1
	Silver	-0.706	ug/L					22-MAR-10 07:55	032210-1
	Sodium	11.1	ug/L					22-MAR-10 07:55	032210-1
	Vanadium	-1.08	ug/L					22-MAR-10 07:55	032210-1
	Zinc	0.89	ug/L					22-MAR-10 07:55	032210-1
ICSAB01									
	Aluminum	522000	ug/L	500000	ug/L	104	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Arsenic	523	ug/L	500	ug/L	105	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Barium	492	ug/L	500	ug/L	98.5	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Calcium	483000	ug/L	500000	ug/L	96.7	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Chromium	486	ug/L	500	ug/L	97.2	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Cobalt	444	ug/L	500	ug/L	88.8	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Copper	556	ug/L	500	ug/L	111	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Iron	188000	ug/L	200000	ug/L	94	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Magnesium	493000	ug/L	500000	ug/L	98.6	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Nickel	452	ug/L	500	ug/L	90.3	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Potassium	5410	ug/L	5000	ug/L	108	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Selenium	2540	ug/L	2500	ug/L	101	80.0 – 120.0	22-MAR-10 08:01	032210-1

METALS

-4-

Interference Check Sample

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	276	ug/L	250	ug/L	110	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Sodium	5660	ug/L	5000	ug/L	113	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Vanadium	512	ug/L	500	ug/L	102	80.0 – 120.0	22-MAR-10 08:01	032210-1
	Zinc	494	ug/L	500	ug/L	98.7	80.0 – 120.0	22-MAR-10 08:01	032210-1

METALS

-4-

Interference Check Sample

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Antimony	0.12	ug/L					21-APR-10 16:38	100421-2
	Cadmium	0.481	ug/L					21-APR-10 16:38	100421-2
	Lead	0.217	ug/L					21-APR-10 16:38	100421-2
	Manganese	5.87	ug/L					21-APR-10 16:38	100421-2
	Thallium	0.119	ug/L					21-APR-10 16:38	100421-2
	Uranium	0.003	ug/L					21-APR-10 16:38	100421-2
ICSAB01									
	Antimony	19.5	ug/L	20	ug/L	97.3	80.0 - 120.0	21-APR-10 16:42	100421-2
	Cadmium	20.1	ug/L	20.44	ug/L	98.5	80.0 - 120.0	21-APR-10 16:42	100421-2
	Lead	19.9	ug/L	20.19	ug/L	98.5	80.0 - 120.0	21-APR-10 16:42	100421-2
	Manganese	27.1	ug/L	25.8	ug/L	105	80.0 - 120.0	21-APR-10 16:42	100421-2
	Thallium	18.9	ug/L	20	ug/L	94.6	80.0 - 120.0	21-APR-10 16:42	100421-2
	Uranium	21.9	ug/L	20	ug/L	109	80.0 - 120.0	21-APR-10 16:42	100421-2

METALS

-4-

Interference Check Sample

SDG No: 10-2013-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.067	ug/L					21-APR-10 20:47	100421-5
ICSAB01	Beryllium	18.0	ug/L	20	ug/L	89.9	80.0 - 120.0	21-APR-10 20:49	100421-5

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2013-1 Client ID RE46-10-13376S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 247919001 Spike ID: 1202054537

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5180		153	J	5000	101		P
Arsenic	ug/L	75-125	511		5	U	500	102		P
Barium	ug/L	75-125	515		1.69	J	500	103		P
Calcium	ug/L	75-125	5110		59.9	J	5000	101		P
Chromium	ug/L	75-125	500		1	U	500	99.9		P
Cobalt	ug/L	75-125	504		1	U	500	101		P
Copper	ug/L	75-125	505		3	U	500	101		P
Iron	ug/L	75-125	5060		87.1	J	5000	99.5		P
Magnesium	ug/L	75-125	5310		85	U	5000	105		P
Nickel	ug/L	75-125	511		1.5	U	500	102		P
Potassium	ug/L	75-125	5290		61.5	J	5000	105		P
Selenium	ug/L	75-125	507		6.45	J	500	100		P
Silver	ug/L	75-125	490		1	U	500	97.9		P
Sodium	ug/L	75-125	5010		146	J	5000	97.2		P
Vanadium	ug/L	75-125	510		1	U	500	102		P
Zinc	ug/L	75-125	493		3.3	U	500	98.3		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2013-1 **Client ID** RE46-10-13376S

Contract: LANL01004 **Level:** Low

Matrix: WATER **% Solids:**

Sample ID: 247919001 **Spike ID:** 1202054542

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Beryllium	ug/L	75-125	53.8		0.1	U	50	108		MS
Cadmium	ug/L	75-125	9.61		0.11	U	10	95.9		MS
Lead	ug/L	75-125	36.8		0.5	U	40	91.8		MS
Manganese	ug/L	75-125	46.8		2.14	J	50	89.4		MS
Thallium	ug/L	75-125	83.3		0.3	U	100	83.2		MS
Uranium	ug/L	75-125	48.3		0.05	U	50	96.5		MS
Antimony	ug/L	75-125	189		1	U	200	94.3		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2013-1 **Client ID** RE15-10-8272S**Contract:** LANL01004 **Level:** Low**Matrix:** WATER **% Solids:****Sample ID:** 247771001 **Spike ID:** 1202056226

<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	2.18		0.066	U	2	108		AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-13376D

Sample ID: 247919001

Duplicate ID: 1202054536

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	+/-200	153 J		136 J		11.7		P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L	+/-5	1.69 J		1.43 J		16.6		P
Calcium	ug/L	+/-200	59.9 J		56.3 J		6.18		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	+/-100	87.1 J		87.6 J		.519		P
Magnesium	ug/L		85 U		85 U				P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L	+/-150	61.5 J		58 J		5.72		P
Selenium	ug/L	+/-30	6.45 J		6.38 J		1.06		P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L	+/-300	146 J		143 J		1.95		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.: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-13376D

Sample ID: 247919001

Duplicate ID: 1202054541

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	+/-5	2.14 J		2.14 J		.28		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.: 10-2013-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-8272D

Sample ID: 247771001

Duplicate ID: 1202056225

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. 10-2013-1

Contract: LANL01004

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202054535								
	Aluminum	ug/L	5000	4910		98.1	80-120	P
	Arsenic	ug/L	500	500		100	80-120	P
	Barium	ug/L	500	503		101	80-120	P
	Calcium	ug/L	5000	4900		98.1	80-120	P
	Chromium	ug/L	500	494		98.8	80-120	P
	Cobalt	ug/L	500	494		98.7	80-120	P
	Copper	ug/L	500	499		99.8	80-120	P
	Iron	ug/L	5000	4970		99.3	80-120	P
	Magnesium	ug/L	5000	5110		102	80-120	P
	Nickel	ug/L	500	505		101	80-120	P
	Potassium	ug/L	5000	5120		102	80-120	P
	Selenium	ug/L	500	501		100	80-120	P
	Silver	ug/L	500	480		95.9	80-120	P
	Sodium	ug/L	5000	4840		96.8	80-120	P
	Vanadium	ug/L	500	504		101	80-120	P
	Zinc	ug/L	500	490		97.9	80-120	P

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-2013-1

Contract: LANL01004

Aqueous LCS Source: O2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202054540	Antimony	ug/L	50	49.4		98.8	80-120	MS
	Beryllium	ug/L	50	53.9		108	80-120	MS
	Cadmium	ug/L	50	48		96.1	80-120	MS
	Lead	ug/L	50	46.6		93.2	80-120	MS
	Manganese	ug/L	50	46.4		92.9	80-120	MS
	Thallium	ug/L	50	44.2		88.4	80-120	MS
	Uranium	ug/L	50	48.6		97.1	80-120	MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-2013-1

Contract: LANL01004

Aqueous LCS Source: GEL

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056224	Mercury	ug/L	2	2.24		112	80-120	AV

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2013-1 Client ID RE46-10-13376L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 247919001 Serial Dilution ID: 1202054538

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	153	J	340	U	100			P
Arsenic	5	U	25	U				P
Barium	1.69	J	5	U	100			P
Calcium	59.9	J	250	U	100			P
Chromium	1	U	5	U				P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	87.1	J	150	U	100			P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	61.5	J	250	U	100			P
Selenium	6.45	J	25	U	100			P
Silver	1	U	5	U				P
Sodium	146	J	500	U	100			P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2013-1 Client ID RE46-10-13376L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 247919001 Serial Dilution ID: 1202054543

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.5	U	2.5	U				MS
Manganese	2.14	J	5	U	100			MS
Thallium	.3	U	6.55					MS
Uranium	.05	U	.25	U				MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2013-1 **Client ID** RE15-10-8272L**Contract:** LANL01004**Matrix:** LIQUID **Level:** Low**Sample ID:** 247771001 **Serial Dilution ID:** 1202056227

<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: 10-2013-1

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	958065						
1202054534	MB for batch 958065	MB	W	01-MAR-10	50mL	50mL	
1202054535	LCS for batch 958065	LCS	W	01-MAR-10	50mL	50mL	
1202054537	RE46-10-13376S	MS	W	01-MAR-10	50mL	50mL	
1202054536	RE46-10-13376D	DUP	W	01-MAR-10	50mL	50mL	
247908001	RE15-10-8089	SAMPLE	W	01-MAR-10	50mL	50mL	
247908002	RE15-10-8086	SAMPLE	W	01-MAR-10	50mL	50mL	
247908003	RE15-10-8088	SAMPLE	W	01-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013-1

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 958067							
1202054539	MB for batch 958067	MB	W	02-MAR-10	50mL	50mL	
1202054540	LCS for batch 958067	LCS	W	02-MAR-10	50mL	50mL	
1202054542	RE46-10-13376S	MS	W	02-MAR-10	50mL	50mL	
1202054541	RE46-10-13376D	DUP	W	02-MAR-10	50mL	50mL	
247908001	RE15-10-8089	SAMPLE	W	02-MAR-10	50mL	50mL	
247908002	RE15-10-8086	SAMPLE	W	02-MAR-10	50mL	50mL	
247908003	RE15-10-8088	SAMPLE	W	02-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2013-1

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 958775							
1202056223	MB for batch 958775	MB	W	02-MAR-10	20mL	20mL	
1202056224	LCS for batch 958775	LCS	W	02-MAR-10	20mL	20mL	
1202056226	RE15-10-8272S	MS	W	02-MAR-10	20mL	20mL	
1202056225	RE15-10-8272D	DUP	W	02-MAR-10	20mL	20mL	
247908001	RE15-10-8089	SAMPLE	W	02-MAR-10	20mL	20mL	
247908002	RE15-10-8086	SAMPLE	W	02-MAR-10	20mL	20mL	
247908003	RE15-10-8088	SAMPLE	W	02-MAR-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 22-MAR-10

End Date: 22-MAR-10

Client Sdg: 10-2013-1

Method P

Data File: 032210-1

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	07:00:00	X		X	X			X	X	X	X	X		X		X	X	X	X	X			X	X
S0.1	1	07:08:00			X	X				X	X	X					X	X	X	X				X	X
S0.5	1	07:14:00	X		X	X			X	X	X	X			X		X	X	X	X				X	X
SCAL	1	07:21:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
S10	1	07:28:00	X						X				X	X							X				
ICV01	1	07:34:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
ICB01	1	07:40:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
PQL01	1	07:48:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
ICSA01	1	07:55:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
ICSAB01	1	08:01:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
LR01	1	08:08:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
LR02	1	08:15:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
CCV01	1	08:22:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
CCB01	1	08:29:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
LR03	1	08:44:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
CCV02	1	08:51:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
CCB02	1	08:58:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
ZZZZZZ	1	09:06:00																							
ZZZZZZ	1	09:13:00																							
ZZZZZZ	1	09:20:00																							
ZZZZZZ	1	09:27:00																							
ZZZZZZ	1	09:34:00																							
ZZZZZZ	5	09:41:00																							
CCV03	1	09:48:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
CCB03	1	09:55:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
ZZZZZZ	1	10:03:00																							
ZZZZZZ	1	10:10:00																							
ZZZZZZ	1	10:17:00																							
ZZZZZZ	1	10:24:00																							
ZZZZZZ	1	10:31:00																							
ZZZZZZ	1	10:38:00																							
ZZZZZZ	1	10:45:00																							
ZZZZZZ	1	10:53:00																							
ZZZZZZ	1	11:00:00																							
CCV04	1	11:07:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
CCB04	1	11:14:00	X		X	X			X	X	X	X	X	X	X		X	X	X	X	X			X	X
ZZZZZZ	20	11:21:00																							
ZZZZZZ	20	11:28:00																							
ZZZZZZ	20	11:35:00																							
ZZZZZZ	20	11:42:00																							

Metals
-14-
Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	16:33:00																								
ZZZZZZ	1	16:40:00																								
ZZZZZZ	1	16:47:00																								
ZZZZZZ	1	16:54:00																								
ZZZZZZ	1	17:01:00																								
ZZZZZZ	1	17:08:00																								
CCV10	1	17:15:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB10	1	17:22:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202054534	1	17:30:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202054535	1	17:37:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
247908001	1	17:44:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
247908002	1	17:51:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
247908003	1	17:57:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	18:04:00																								
1202054536	1	18:11:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202054537	1	18:18:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202054538	5	18:25:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	18:32:00																								
CCV11	1	18:39:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB11	1	18:46:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 03-MAR-10

End Date: 03-MAR-10

Client Sdg: 10-2013-1

Method: AV

Data File: 030310W2-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	10:20:00															X									
S0.2	1	10:22:00															X									
S0.5	1	10:24:00															X									
S2.0	1	10:26:00															X									
S5.0	1	10:28:00															X									
S10	1	10:30:00															X									
ICV01	1	10:32:00															X									
ICB01	1	10:34:00															X									
CRDL01	1	10:36:00															X									
CCV01	1	10:38:00															X									
CCB01	1	10:40:00															X									
ZZZZZZ	1	10:42:00																								
ZZZZZZ	1	10:44:00																								
ZZZZZZ	1	10:46:00																								
ZZZZZZ	1	10:48:00																								
ZZZZZZ	1	10:50:00																								
ZZZZZZ	5	10:52:00																								
ZZZZZZ	1	10:54:00																								
ZZZZZZ	1	10:56:00																								
ZZZZZZ	1	10:58:00																								
ZZZZZZ	1	11:00:00																								
CCV02	1	11:02:00															X									
CCB02	1	11:04:00															X									
ZZZZZZ	1	11:06:00																								
1202056223	1	11:08:00															X									
1202056224	1	11:10:00															X									
ZZZZZZ	1	11:12:00																								
1202056225	1	11:14:00															X									
1202056226	1	11:16:00															X									
1202056227	5	11:18:00															X									
ZZZZZZ	1	11:20:00																								
ZZZZZZ	1	11:22:00																								
ZZZZZZ	1	11:24:00																								
CCV03	1	11:26:00															X									
CCB03	1	11:28:00															X									
ZZZZZZ	1	11:30:00																								
ZZZZZZ	1	11:32:00																								
ZZZZZZ	1	11:34:00																								
ZZZZZZ	1	11:36:00																								
ZZZZZZ	1	11:38:00																								

Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 21-APR-10

End Date: 21-APR-10

Client Sdg: 10-2013-1

Method MS

Data File: 100421-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	16:18:00		X			X							X	X								X	X		
S10	1	16:22:00		X			X							X	X								X	X		
S100	1	16:25:00		X			X							X	X								X	X		
ICV01	1	16:28:00		X			X							X	X								X	X		
ICB01	1	16:32:00		X			X							X	X								X	X		
CRDL01	1	16:35:00		X			X							X	X								X	X		
ICSA01	1	16:38:00		X			X							X	X								X	X		
ICSAB01	1	16:42:00		X			X							X	X								X	X		
CCV01	1	16:45:00		X			X							X	X								X	X		
CCB01	1	16:49:00		X			X							X	X								X	X		
1202054539	1	16:52:00		X			X							X	X								X	X		
1202054540	1	16:55:00		X			X							X	X								X	X		
247908001	1	16:59:00		X			X							X	X								X	X		
247908002	1	17:02:00		X			X							X	X								X	X		
247908003	1	17:05:00		X			X							X	X								X	X		
ZZZZZZ	1	17:09:00																								
1202054541	1	17:12:00		X			X							X	X								X	X		
1202054542	1	17:15:00		X			X							X	X								X	X		
1202054543	5	17:19:00		X			X							X	X								X	X		
ZZZZZZ	1	17:22:00																								
CCV02	1	17:26:00		X			X							X	X								X	X		
CCB02	1	17:29:00		X			X							X	X								X	X		

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 21-APR-10**Client Sdg:** 10-2013-1**Method:** MS**Data File:** 100421-5**End Date:** 21-APR-10

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	20:35:00					X																			
S10	1	20:37:00					X																			
S100	1	20:39:00					X																			
ICV01	1	20:41:00					X																			
ICB01	1	20:43:00					X																			
CRDL01	1	20:45:00					X																			
ICSA01	1	20:47:00					X																			
ICSAB01	1	20:49:00					X																			
CCV01	1	20:51:00					X																			
CCB01	1	20:53:00					X																			
1202054539	1	20:55:00					X																			
1202054540	1	20:57:00					X																			
247908001	1	21:00:00					X																			
247908002	1	21:02:00					X																			
247908003	1	21:04:00					X																			
ZZZZZZ	1	21:06:00																								
1202054541	1	21:08:00					X																			
1202054542	1	21:10:00					X																			
1202054543	5	21:12:00					X																			
ZZZZZZ	1	21:14:00																								
CCV02	1	21:16:00					X																			
CCB02	1	21:18:00					X																			

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2013-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum		15.0	30
	Antimony		1.0	3
	Arsenic		1.6	5
	Barium		0.6	2
	Beryllium		0.1	.5
	Cadmium		0.11	1
	Calcium		65.0	200
	Chromium		2.0	10
	Cobalt		0.1	1
	Copper		0.33	1
	Iron		33.0	100
	Lead		0.5	2
	Magnesium		5.2	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		1.0	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.05	.2
	Vanadium		3.0	10
	Zinc		3.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2013-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2013-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.0	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	50.0	200
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.752	3.0	10
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	50.0	150
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	100	300
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-2013-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interement 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: GELGEL Job No: **10-2013-1**

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
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2013-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Iron	Lead	Magnesium	Manganese	Molybdenum
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2013-1**Contract: 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: GEL

GEL Job No: 10-2013-1

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
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2013-1

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
-12-
Linear Ranges

SDG NO. 10-2013-1

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. 10-2013-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-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
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
Cadmium	1000	1000	ug/L	01-FEB-10

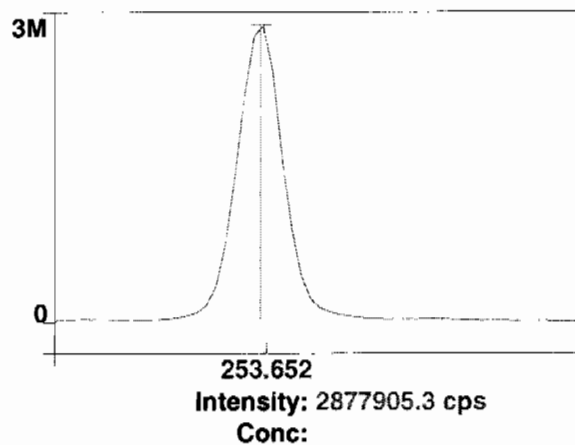
Raw Data

Method: Hg_ReAlign
Result: 042210

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

3/22/2010 06:24:50 Hg ReAlign... Actual peak offset (nm): -0.008
Drift (nm): -0.000 Slit adjustment: -2

Analysis Begun

Start Time: 3/22/2010 07:00:55

Plasma On Time: 3/22/2010 06:16:18

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\032210.sif

Batch ID:

Results Data Set: 032210

Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/19/2010 08:52:02

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 396.153 Radial	Lin Thru 0	Peak Area	Radial	Sc 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/22/2010 07:00:56

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Net

Corrected

Calib.

Analysis

Repl#	Analyte	Intensity	Intensity	Conc. Units	Time
1	Sc Radial	4595.5	4595.5	101 %	07:02:49
1	Y RADIAL	4960.0	4960.0	100.9 %	07:02:49
1	Al 396.153Radial†	-79.2	-78.5	[0.00] ug/L	07:03:09
1	Ca 317.933Radial†	16.9	16.7	[0.00] ug/L	07:03:09
1	Fe 238.204 Radial†	5.4	5.4	[0.00] ug/L	07:03:09
1	K 766.490 Radial†	2414.8	2391.9	[0.00] ug/L	07:02:49
1	Mg 279.077 IEC†	1.8	1.8	[0.00] ug/L	07:03:09
1	Na 589.592 Radial†	-718.1	-711.3	[0.00] ug/L	07:02:49
1	Sr 421.552†	58.2	57.7	[0.00] ug/L	07:02:49
1	Sc 361.383	858218.7	858218.7	101.53 %	07:04:05
1	Y 371.029	723729.9	723729.9	101.51 %	07:04:05
1	Ag 328.068†	165.7	163.2	[0.00] ug/L	07:04:05
1	As 188.979†	-24.1	-23.8	[0.00] ug/L	07:04:25
1	B 249.677†	-443.8	-437.2	[0.00] ug/L	07:04:25
1	Ba 233.527†	13.3	13.1	[0.00] ug/L	07:04:25
1	Be 313.107†	-4433.5	-4366.8	[0.00] ug/L	07:04:05
1	Cd 226.502†	-143.5	-141.3	[0.00] ug/L	07:04:25
1	Co 228.616†	-46.8	-46.0	[0.00] ug/L	07:04:25
1	Cr 267.716†	70.7	69.6	[0.00] ug/L	07:04:25
1	Cu 324.752†	5530.0	5446.8	[0.00] ug/L	07:04:05
1	Mn 257.610†	374.2	368.5	[0.00] ug/L	07:04:25
1	Mo 202.031†	13.2	13.0	[0.00] ug/L	07:04:25
1	Ni 231.604†	87.4	86.1	[0.00] ug/L	07:04:25
1	P 214.914†	201.5	198.5	[0.00] ug/L	07:04:25
1	Pb 220.353†	-43.7	-43.0	[0.00] ug/L	07:04:25
1	S 181.975 Axial†	27.4	27.0	[0.00] ug/L	07:04:25
1	Sb 206.836†	24.7	24.3	[0.00] ug/L	07:04:25
1	Se 196.026†	-22.1	-21.7	[0.00] ug/L	07:04:25
1	Si 251.611†	513.0	505.3	[0.00] ug/L	07:04:25
1	Sn 189.927†	5.9	5.8	[0.00] ug/L	07:04:25
1	Ti 334.940†	-979.8	-965.1	[0.00] ug/L	07:04:05
1	Tl 190.801†	-25.4	-25.0	[0.00] ug/L	07:04:25
1	U 409.014†	-1936.8	-1907.7	[0.00] ug/L	07:04:05
1	V 292.402†	-1328.4	-1308.4	[0.00] ug/L	07:04:05
1	Zn 213.857†	610.0	600.8	[0.00] ug/L	07:04:25
1	SiO2†	535.7	527.6	[0.00] ug/L	07:05:36
2	Sc Radial	4529.6	4529.6	99.5 %	07:03:14
2	Y RADIAL	4879.7	4879.7	99.24 %	07:03:14
2	Al 396.153Radial†	-61.7	-62.0	[0.00] ug/L	07:03:34
2	Ca 317.933Radial†	21.7	21.8	[0.00] ug/L	07:03:34
2	Fe 238.204 Radial†	7.3	7.3	[0.00] ug/L	07:03:34
2	K 766.490 Radial†	2545.1	2557.6	[0.00] ug/L	07:03:14
2	Mg 279.077 IEC†	-1.0	-1.0	[0.00] ug/L	07:03:34
2	Na 589.592 Radial†	-645.9	-649.1	[0.00] ug/L	07:03:14
2	Sr 421.552†	17.7	17.8	[0.00] ug/L	07:03:14
2	Sc 361.383	833972.0	833972.0	98.659 %	07:04:31
2	Y 371.029	703797.5	703797.5	98.717 %	07:04:31
2	Ag 328.068†	133.7	135.5	[0.00] ug/L	07:04:31
2	As 188.979†	-22.7	-23.0	[0.00] ug/L	07:04:51
2	B 249.677†	-453.9	-460.1	[0.00] ug/L	07:04:51
2	Ba 233.527†	3.7	3.7	[0.00] ug/L	07:04:51
2	Be 313.107†	-4461.2	-4521.8	[0.00] ug/L	07:04:31
2	Cd 226.502†	-150.1	-152.1	[0.00] ug/L	07:04:51
2	Co 228.616†	-59.3	-60.1	[0.00] ug/L	07:04:51
2	Cr 267.716†	65.6	66.5	[0.00] ug/L	07:04:51
2	Cu 324.752†	5490.2	5564.8	[0.00] ug/L	07:04:31
2	Mn 257.610†	401.9	407.3	[0.00] ug/L	07:04:51
2	Mo 202.031†	18.6	18.8	[0.00] ug/L	07:04:51
2	Ni 231.604†	62.9	63.8	[0.00] ug/L	07:04:51
2	P 214.914†	196.9	199.6	[0.00] ug/L	07:04:51
2	Pb 220.353†	-59.4	-60.2	[0.00] ug/L	07:04:51
2	S 181.975 Axial†	33.8	34.3	[0.00] ug/L	07:04:51
2	Sb 206.836†	26.6	27.0	[0.00] ug/L	07:04:51
2	Se 196.026†	-20.7	-21.0	[0.00] ug/L	07:04:51
2	Si 251.611†	513.8	520.8	[0.00] ug/L	07:04:51
2	Sn 189.927†	3.8	3.9	[0.00] ug/L	07:04:51
2	Ti 334.940†	-1088.0	-1102.8	[0.00] ug/L	07:04:31
2	Tl 190.801†	-32.3	-32.7	[0.00] ug/L	07:04:51
2	U 409.014†	-1905.2	-1931.0	[0.00] ug/L	07:04:31
2	V 292.402†	-1399.8	-1418.9	[0.00] ug/L	07:04:31

2	Zn 213.857†	599.9	608.1	[0.00]	ug/L	07:04:51
2	SiO2†	540.0	547.4	[0.00]	ug/L	07:05:56
3	Sc Radial	4530.8	4530.8	99.5	%	07:03:39
3	Y RADIAL	4911.1	4911.1	99.88	%	07:03:39
3	Al 396.153Radial†	-78.7	-79.0	[0.00]	ug/L	07:03:59
3	Ca 317.933Radial†	16.5	16.5	[0.00]	ug/L	07:03:59
3	Fe 238.204 Radial†	7.2	7.2	[0.00]	ug/L	07:03:59
3	K 766.490 Radial†	2569.8	2581.8	[0.00]	ug/L	07:03:39
3	Mg 279.077 IEC†	0.4	0.4	[0.00]	ug/L	07:03:59
3	Na 589.592 Radial†	-789.2	-792.9	[0.00]	ug/L	07:03:39
3	Sr 421.552†	36.7	36.9	[0.00]	ug/L	07:03:39
3	Sc 361.383	843726.4	843726.4	99.813	%	07:04:56
3	Y 371.029	711310.8	711310.8	99.771	%	07:04:56
3	Ag 328.068†	171.1	171.4	[0.00]	ug/L	07:04:56
3	As 188.979†	-19.4	-19.5	[0.00]	ug/L	07:05:16
3	B 249.677†	-444.2	-445.1	[0.00]	ug/L	07:05:16
3	Ba 233.527†	19.1	19.1	[0.00]	ug/L	07:05:16
3	Be 313.107†	-4475.0	-4483.4	[0.00]	ug/L	07:04:56
3	Cd 226.502†	-151.7	-152.0	[0.00]	ug/L	07:05:16
3	Co 228.616†	-54.6	-54.7	[0.00]	ug/L	07:05:16
3	Cr 267.716†	74.3	74.4	[0.00]	ug/L	07:05:16
3	Cu 324.752†	5556.0	5566.4	[0.00]	ug/L	07:04:56
3	Mn 257.610†	382.3	383.0	[0.00]	ug/L	07:05:16
3	Mo 202.031†	6.9	6.9	[0.00]	ug/L	07:05:16
3	Ni 231.604†	67.9	68.0	[0.00]	ug/L	07:05:16
3	P 214.914†	203.5	203.9	[0.00]	ug/L	07:05:16
3	Pb 220.353†	-43.4	-43.5	[0.00]	ug/L	07:05:16
3	S 181.975 Axial†	28.4	28.4	[0.00]	ug/L	07:05:16
3	Sb 206.836†	25.0	25.0	[0.00]	ug/L	07:05:16
3	Se 196.026†	-23.8	-23.8	[0.00]	ug/L	07:05:16
3	Si 251.611†	529.4	530.4	[0.00]	ug/L	07:05:16
3	Sn 189.927†	1.5	1.5	[0.00]	ug/L	07:05:16
3	Ti 334.940†	-1066.8	-1068.8	[0.00]	ug/L	07:04:56
3	Tl 190.801†	-29.5	-29.6	[0.00]	ug/L	07:05:16
3	U 409.014†	-1987.1	-1990.8	[0.00]	ug/L	07:04:56
3	V 292.402†	-1322.3	-1324.8	[0.00]	ug/L	07:04:56
3	Zn 213.857†	602.9	604.0	[0.00]	ug/L	07:05:16
3	SiO2†	533.0	534.0	[0.00]	ug/L	07:06:16

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	845305.7	12200.22	1.44%	100.00 %
Sc Radial	4552.0	37.71	0.83%	100 %
Y 371.029	712946.0	10066.31	1.41%	100.00 %
Y RADIAL	4916.9	40.49	0.82%	100.0 %
Ag 328.068†	156.7	18.82	12.01%	[0.00] ug/L
Al 396.153Radial†	-73.2	9.67	13.22%	[0.00] ug/L
As 188.979†	-22.1	2.29	10.39%	[0.00] ug/L
B 249.677†	-447.4	11.64	2.60%	[0.00] ug/L
Ba 233.527†	12.0	7.77	64.96%	[0.00] ug/L
Be 313.107†	-4457.3	80.70	1.81%	[0.00] ug/L
Ca 317.933Radial†	18.4	2.98	16.22%	[0.00] ug/L
Cd 226.502†	-148.5	6.18	4.16%	[0.00] ug/L
Co 228.616†	-53.6	7.09	13.23%	[0.00] ug/L
Cr 267.716†	70.2	4.00	5.71%	[0.00] ug/L
Cu 324.752†	5526.0	68.60	1.24%	[0.00] ug/L
Fe 238.204 Radial†	6.6	1.08	16.34%	[0.00] ug/L
K 766.490 Radial†	2510.5	103.35	4.12%	[0.00] ug/L
Mg 279.077 IEC†	0.4	1.43	355.77%	[0.00] ug/L
Mn 257.610†	386.3	19.61	5.08%	[0.00] ug/L
Mo 202.031†	12.9	5.98	46.37%	[0.00] ug/L
Na 589.592 Radial†	-717.8	72.11	10.05%	[0.00] ug/L
Ni 231.604†	72.6	11.84	16.30%	[0.00] ug/L
P 214.914†	200.7	2.85	1.42%	[0.00] ug/L
Pb 220.353†	-48.9	9.81	20.05%	[0.00] ug/L
S 181.975 Axial†	29.9	3.88	12.96%	[0.00] ug/L
Sb 206.836†	25.4	1.38	5.43%	[0.00] ug/L
Se 196.026†	-22.2	1.48	6.67%	[0.00] ug/L
Si 251.611†	518.8	12.67	2.44%	[0.00] ug/L

Sn 189.927†	3.7	2.17	58.48%	[0.00]	ug/L
Sr 421.552†	37.5	19.97	53.33%	[0.00]	ug/L
Ti 334.940†	-1045.5	71.74	6.86%	[0.00]	ug/L
Tl 190.801†	-29.1	3.88	13.34%	[0.00]	ug/L
U 409.014†	-1943.2	42.86	2.21%	[0.00]	ug/L
V 292.402†	-1350.7	59.60	4.41%	[0.00]	ug/L
Zn 213.857†	604.3	3.65	0.60%	[0.00]	ug/L
SiO2†	536.3	10.07	1.88%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/22/2010 07:08:27
 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	4583.1	4583.1	101 %		07:10:25
1	Y RADIAL	4932.9	4932.9	100.3 %		07:10:25
1	K 766.490 Radial†	7773.4	5210.2	[1000] ug/L		07:10:20
1	Sr 421.552†	12841.7	12717.1	[100] ug/L		07:10:25
1	Sc 361.383	851944.0	851944.0	100.79 %		07:10:52
1	Y 371.029	715790.9	715790.9	100.40 %		07:10:52
1	Ag 328.068†	20076.2	19763.1	[100] ug/L		07:10:52
1	As 188.979†	154.6	175.5	[100] ug/L		07:11:12
1	B 249.677†	3059.8	3483.4	[100] ug/L		07:10:52
1	Ba 233.527†	10937.9	10840.7	[100] ug/L		07:10:52
1	Be 313.107†	234804.5	237432.3	[100] ug/L		07:10:52
1	Cd 226.502†	6655.0	6751.7	[100] ug/L		07:11:12
1	Co 228.616†	3845.5	3869.1	[100] ug/L		07:11:12
1	Cr 267.716†	7687.5	7557.4	[100] ug/L		07:10:52
1	Cu 324.752†	36507.3	30696.8	[100] ug/L		07:10:52
1	Mn 257.610†	78808.4	77808.1	[100] ug/L		07:10:52
1	Mo 202.031†	1135.6	1113.9	[100] ug/L		07:11:12
1	Ni 231.604†	3236.0	3138.2	[100] ug/L		07:11:12
1	P 214.914†	855.0	647.6	[500] ug/L		07:11:12
1	Pb 220.353†	601.5	645.7	[100] ug/L		07:11:12
1	S 181.975 Axial†	147.0	116.0	[200] ug/L		07:11:12
1	Sb 206.836†	267.1	239.6	[100] ug/L		07:11:12
1	Se 196.026†	104.3	125.6	[100] ug/L		07:11:12
1	Si 251.611†	13831.0	13204.4	[500] ug/L		07:10:52
1	Sn 189.927†	436.2	429.1	[100] ug/L		07:11:12
1	Ti 334.940†	58104.1	58696.9	[100] ug/L		07:10:52
1	Tl 190.801†	231.8	259.1	[100] ug/L		07:11:12
1	U 409.014†	1672.5	3602.7	[100] ug/L		07:10:52
1	V 292.402†	11455.0	12716.4	[100] ug/L		07:10:52
1	Zn 213.857†	9057.1	8382.2	[100] ug/L		07:10:52
1	SiO2†	13566.3	12924.2	[1069.5] ug/L		07:12:08
2	Sc Radial	4638.2	4638.2	102 %		07:10:35
2	Y RADIAL	4975.9	4975.9	101.2 %		07:10:35
2	K 766.490 Radial†	7814.6	5159.0	[1000] ug/L		07:10:30
2	Sr 421.552†	13024.0	12744.6	[100] ug/L		07:10:35
2	Sc 361.383	850300.0	850300.0	100.59 %		07:11:17
2	Y 371.029	714976.6	714976.6	100.28 %		07:11:17
2	Ag 328.068†	20183.1	19907.8	[100] ug/L		07:11:17
2	As 188.979†	158.9	180.1	[100] ug/L		07:11:37
2	B 249.677†	3045.7	3475.2	[100] ug/L		07:11:17
2	Ba 233.527†	10945.8	10869.6	[100] ug/L		07:11:17
2	Be 313.107†	234652.0	237731.1	[100] ug/L		07:11:17
2	Cd 226.502†	6690.1	6799.3	[100] ug/L		07:11:37
2	Co 228.616†	3865.5	3896.4	[100] ug/L		07:11:37
2	Cr 267.716†	7678.1	7562.8	[100] ug/L		07:11:17
2	Cu 324.752†	36427.7	30687.7	[100] ug/L		07:11:17
2	Mn 257.610†	79000.1	78149.8	[100] ug/L		07:11:17
2	Mo 202.031†	1134.5	1115.0	[100] ug/L		07:11:37
2	Ni 231.604†	3259.4	3167.7	[100] ug/L		07:11:37
2	P 214.914†	850.3	644.6	[500] ug/L		07:11:37
2	Pb 220.353†	597.6	642.9	[100] ug/L		07:11:37
2	S 181.975 Axial†	148.9	118.1	[200] ug/L		07:11:37
2	Sb 206.836†	260.9	233.9	[100] ug/L		07:11:37
2	Se 196.026†	104.2	125.8	[100] ug/L		07:11:37
2	Si 251.611†	13893.7	13293.2	[500] ug/L		07:11:17
2	Sn 189.927†	447.0	440.6	[100] ug/L		07:11:37
2	Ti 334.940†	58117.9	58822.0	[100] ug/L		07:11:17
2	Tl 190.801†	221.0	248.8	[100] ug/L		07:11:37
2	U 409.014†	1821.7	3754.1	[100] ug/L		07:11:17

2	V 292.402†	11368.6	12652.5	[100]	ug/L	07:11:17
2	Zn 213.857†	9069.4	8411.8	[100]	ug/L	07:11:17
2	SiO2†	13629.0	13012.6	[1069.5]	ug/L	07:12:13
3	Sc Radial	4555.9	4555.9	100	%	07:10:45
3	Y RADIAL	4886.6	4886.6	99.38	%	07:10:45
3	K 766.490 Radial†	7641.3	5124.4	[1000]	ug/L	07:10:40
3	Sr 421.552†	12778.1	12729.8	[100]	ug/L	07:10:45
3	Sc 361.383	829319.2	829319.2	98.109	%	07:11:43
3	Y 371.029	697614.6	697614.6	97.850	%	07:11:43
3	Ag 328.068†	19653.8	19875.9	[100]	ug/L	07:11:43
3	As 188.979†	154.5	179.6	[100]	ug/L	07:12:03
3	B 249.677†	2977.5	3482.3	[100]	ug/L	07:11:43
3	Ba 233.527†	10665.2	10858.8	[100]	ug/L	07:11:43
3	Be 313.107†	228434.5	237295.3	[100]	ug/L	07:11:43
3	Cd 226.502†	6667.5	6944.5	[100]	ug/L	07:12:03
3	Co 228.616†	3895.0	4023.7	[100]	ug/L	07:12:03
3	Cr 267.716†	7495.7	7570.0	[100]	ug/L	07:11:43
3	Cu 324.752†	35659.0	30820.4	[100]	ug/L	07:11:43
3	Mn 257.610†	76909.5	78005.8	[100]	ug/L	07:11:43
3	Mo 202.031†	1133.9	1142.8	[100]	ug/L	07:12:03
3	Ni 231.604†	3262.2	3252.4	[100]	ug/L	07:12:03
3	P 214.914†	869.5	685.6	[500]	ug/L	07:12:03
3	Pb 220.353†	613.2	673.9	[100]	ug/L	07:12:03
3	S 181.975 Axial†	144.0	116.9	[200]	ug/L	07:12:03
3	Sb 206.836†	261.1	240.7	[100]	ug/L	07:12:03
3	Se 196.026†	110.1	134.4	[100]	ug/L	07:12:03
3	Si 251.611†	13503.1	13244.5	[500]	ug/L	07:11:43
3	Sn 189.927†	445.1	450.0	[100]	ug/L	07:12:03
3	Ti 334.940†	56479.8	58614.1	[100]	ug/L	07:11:43
3	Tl 190.801†	222.2	255.6	[100]	ug/L	07:12:03
3	U 409.014†	1679.3	3654.8	[100]	ug/L	07:11:43
3	V 292.402†	11054.1	12617.9	[100]	ug/L	07:11:43
3	Zn 213.857†	8825.7	8391.5	[100]	ug/L	07:11:43
3	SiO2†	13798.4	13528.1	[1069.5]	ug/L	07:12:18

Mean Data: S0.1

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	843854.4	12614.64	1.49%	99.828	%
Sc Radial	4592.4	41.92	0.91%	101	%
Y 371.029	709460.7	10267.06	1.45%	99.511	%
Y RADIAL	4931.8	44.64	0.91%	100.3	%
Ag 328.068†	19848.9	76.07	0.38%	[100]	ug/L
As 188.979†	178.4	2.49	1.40%	[100]	ug/L
B 249.677†	3480.3	4.46	0.13%	[100]	ug/L
Ba 233.527†	10856.4	14.57	0.13%	[100]	ug/L
Be 313.107†	237486.2	222.83	0.09%	[100]	ug/L
Cd 226.502†	6831.8	100.43	1.47%	[100]	ug/L
Co 228.616†	3929.7	82.52	2.10%	[100]	ug/L
Cr 267.716†	7563.4	6.32	0.08%	[100]	ug/L
Cu 324.752†	30735.0	74.12	0.24%	[100]	ug/L
K 766.490 Radial†	5164.5	43.17	0.84%	[1000]	ug/L
Mn 257.610†	77987.9	171.57	0.22%	[100]	ug/L
Mo 202.031†	1123.9	16.40	1.46%	[100]	ug/L
Ni 231.604†	3186.1	59.32	1.86%	[100]	ug/L
P 214.914†	659.3	22.85	3.47%	[500]	ug/L
Pb 220.353†	654.2	17.14	2.62%	[100]	ug/L
S 181.975 Axial†	117.0	1.08	0.92%	[200]	ug/L
Sb 206.836†	238.1	3.63	1.52%	[100]	ug/L
Se 196.026†	128.6	5.02	3.90%	[100]	ug/L
Si 251.611†	13247.4	44.49	0.34%	[500]	ug/L
Sn 189.927†	439.9	10.47	2.38%	[100]	ug/L
Sr 421.552†	12730.5	13.76	0.11%	[100]	ug/L
Ti 334.940†	58711.0	104.69	0.18%	[100]	ug/L
Tl 190.801†	254.5	5.26	2.07%	[100]	ug/L
U 409.014†	3670.5	76.95	2.10%	[100]	ug/L
V 292.402†	12662.3	50.00	0.39%	[100]	ug/L
Zn 213.857†	8395.2	15.14	0.18%	[100]	ug/L
SiO2†	13155.0	326.14	2.48%	[1069.5]	ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/22/2010 07:14:29
 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	4541.4	4541.4	99.8 %	07:16:22
1	Y RADIAL	4869.4	4869.4	99.03 %	07:16:22
1	Al 396.153Radial†	4886.4	4971.0	[5000] ug/L	07:16:22
1	Ca 317.933Radial†	2676.4	2664.3	[5000] ug/L	07:16:42
1	K 766.490 Radial†	28686.5	26243.0	[5000] ug/L	07:16:22
1	Mg 279.077 IEC†	128.3	128.2	[5000] ug/L	07:16:42
1	Sr 421.552†	63104.6	63214.4	[500] ug/L	07:16:22
1	Sc 361.383	853249.6	853249.6	100.94 %	07:17:39
1	Y 371.029	710125.8	710125.8	99.604 %	07:17:39
1	Ag 328.068†	95511.6	94465.7	[500] ug/L	07:17:44
1	As 188.979†	881.6	895.5	[500] ug/L	07:18:04
1	B 249.677†	16967.5	17257.0	[500] ug/L	07:17:44
1	Ba 233.527†	52263.8	51765.3	[500] ug/L	07:17:44
1	Be 313.107†	1184596.8	1178025.4	[500] ug/L	07:17:39
1	Cd 226.502†	33823.5	33657.0	[500] ug/L	07:17:44
1	Co 228.616†	19155.5	19030.7	[500] ug/L	07:17:44
1	Cr 267.716†	36671.9	36260.3	[500] ug/L	07:17:44
1	Cu 324.752†	154365.2	147402.0	[500] ug/L	07:17:44
1	Mn 257.610†	379724.3	375802.8	[500] ug/L	07:17:39
1	Mo 202.031†	5549.3	5484.7	[500] ug/L	07:18:04
1	Ni 231.604†	15694.2	15475.4	[500] ug/L	07:17:44
1	P 214.914†	3506.2	3272.9	[2500] ug/L	07:18:04
1	Pb 220.353†	3184.1	3203.3	[500] ug/L	07:18:04
1	S 181.975 Axial†	583.5	548.2	[1000] ug/L	07:18:04
1	Sb 206.836†	1207.2	1170.5	[500] ug/L	07:18:04
1	Se 196.026†	585.6	602.3	[500] ug/L	07:18:04
1	Si 251.611†	65963.8	64830.9	[2500] ug/L	07:17:44
1	Sn 189.927†	2167.5	2143.6	[500] ug/L	07:18:04
1	Ti 334.940†	276108.0	274582.9	[500] ug/L	07:17:44
1	Tl 190.801†	1249.4	1266.9	[500] ug/L	07:18:04
1	U 409.014†	15152.4	16954.5	[500] ug/L	07:17:44
1	V 292.402†	60591.9	61378.5	[500] ug/L	07:17:44
1	Zn 213.857†	41106.7	40119.7	[500] ug/L	07:17:44
1	SiO2†	65961.7	64811.3	[5347.5] ug/L	07:19:12
2	Sc Radial	4494.6	4494.6	98.7 %	07:16:47
2	Y RADIAL	4817.5	4817.5	97.98 %	07:16:47
2	Al 396.153Radial†	4853.0	4988.2	[5000] ug/L	07:16:47
2	Ca 317.933Radial†	2651.9	2667.4	[5000] ug/L	07:17:07
2	K 766.490 Radial†	28517.2	26370.8	[5000] ug/L	07:16:47
2	Mg 279.077 IEC†	126.3	127.5	[5000] ug/L	07:17:07
2	Sr 421.552†	62647.6	63409.9	[500] ug/L	07:16:47
2	Sc 361.383	848336.1	848336.1	100.36 %	07:18:10
2	Y 371.029	704167.7	704167.7	98.769 %	07:18:10
2	Ag 328.068†	97043.1	96539.8	[500] ug/L	07:18:15
2	As 188.979†	879.6	898.6	[500] ug/L	07:18:35
2	B 249.677†	17289.1	17674.8	[500] ug/L	07:18:15
2	Ba 233.527†	53042.9	52841.4	[500] ug/L	07:18:15
2	Be 313.107†	1178156.6	1178405.3	[500] ug/L	07:18:10
2	Cd 226.502†	34367.1	34392.8	[500] ug/L	07:18:15
2	Co 228.616†	19445.5	19429.6	[500] ug/L	07:18:15
2	Cr 267.716†	37138.5	36935.7	[500] ug/L	07:18:15
2	Cu 324.752†	156880.9	150794.5	[500] ug/L	07:18:15
2	Mn 257.610†	379152.1	377411.4	[500] ug/L	07:18:10
2	Mo 202.031†	5553.9	5521.2	[500] ug/L	07:18:35
2	Ni 231.604†	15943.3	15813.8	[500] ug/L	07:18:15
2	P 214.914†	3533.4	3320.2	[2500] ug/L	07:18:35
2	Pb 220.353†	3175.3	3212.9	[500] ug/L	07:18:35
2	S 181.975 Axial†	579.7	547.7	[1000] ug/L	07:18:35
2	Sb 206.836†	1191.9	1162.2	[500] ug/L	07:18:35

2	Se 196.026†	574.2	594.3	[500]	ug/L	07:18:35
2	Si 251.611†	67157.3	66398.5	[2500]	ug/L	07:18:15
2	Sn 189.927†	2163.1	2151.7	[500]	ug/L	07:18:35
2	Ti 334.940†	280375.0	280419.0	[500]	ug/L	07:18:15
2	Tl 190.801†	1236.0	1260.7	[500]	ug/L	07:18:35
2	U 409.014†	15497.4	17385.3	[500]	ug/L	07:18:15
2	V 292.402†	61458.9	62590.1	[500]	ug/L	07:18:15
2	Zn 213.857†	41729.1	40975.7	[500]	ug/L	07:18:15
2	SiO2†	67524.7	66747.2	[5347.5]	ug/L	07:19:17
3	Sc Radial	4573.1	4573.1	100	%	07:17:12
3	Y RADIAL	4888.3	4888.3	99.42	%	07:17:12
3	Al 396.153Radial†	4927.1	4977.5	[5000]	ug/L	07:17:12
3	Ca 317.933Radial†	2676.4	2645.6	[5000]	ug/L	07:17:32
3	K 766.490 Radial†	28966.9	26322.5	[5000]	ug/L	07:17:12
3	Mg 279.077 IEC†	127.0	126.0	[5000]	ug/L	07:17:32
3	Sr 421.552†	63660.3	63328.5	[500]	ug/L	07:17:12
3	Sc 361.383	857933.3	857933.3	101.49	%	07:18:41
3	Y 371.029	712532.5	712532.5	99.942	%	07:18:41
3	Ag 328.068†	96199.2	94626.6	[500]	ug/L	07:18:46
3	As 188.979†	862.6	871.9	[500]	ug/L	07:19:06
3	B 249.677†	17149.4	17344.4	[500]	ug/L	07:18:46
3	Ba 233.527†	52633.4	51846.7	[500]	ug/L	07:18:46
3	Be 313.107†	1190675.9	1177608.1	[500]	ug/L	07:18:41
3	Cd 226.502†	34012.6	33660.5	[500]	ug/L	07:18:46
3	Co 228.616†	19255.8	19026.0	[500]	ug/L	07:18:46
3	Cr 267.716†	36899.3	36286.0	[500]	ug/L	07:18:46
3	Cu 324.752†	155186.9	147376.7	[500]	ug/L	07:18:46
3	Mn 257.610†	382342.5	376328.6	[500]	ug/L	07:18:41
3	Mo 202.031†	5470.4	5377.0	[500]	ug/L	07:19:06
3	Ni 231.604†	15755.8	15451.3	[500]	ug/L	07:18:46
3	P 214.914†	3473.4	3221.6	[2500]	ug/L	07:19:06
3	Pb 220.353†	3130.2	3133.1	[500]	ug/L	07:19:06
3	S 181.975 Axial†	570.0	531.7	[1000]	ug/L	07:19:06
3	Sb 206.836†	1177.4	1134.6	[500]	ug/L	07:19:06
3	Se 196.026†	576.9	590.6	[500]	ug/L	07:19:06
3	Si 251.611†	66472.8	64975.6	[2500]	ug/L	07:18:46
3	Sn 189.927†	2142.9	2107.6	[500]	ug/L	07:19:06
3	Ti 334.940†	277919.8	274874.7	[500]	ug/L	07:18:46
3	Tl 190.801†	1234.4	1245.3	[500]	ug/L	07:19:06
3	U 409.014†	15343.3	17060.6	[500]	ug/L	07:18:46
3	V 292.402†	61040.2	61492.5	[500]	ug/L	07:18:46
3	Zn 213.857†	41317.3	40104.9	[500]	ug/L	07:18:46
3	SiO2†	67977.7	66440.9	[5347.5]	ug/L	07:19:22

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	853173.0	4799.05	0.56%	100.93	%
Sc Radial	4536.4	39.50	0.87%	99.7	%
Y 371.029	708942.0	4306.26	0.61%	99.438	%
Y RADIAL	4858.4	36.66	0.75%	98.81	%
Ag 328.068†	95210.7	1153.83	1.21%	[500]	ug/L
Al 396.153Radial†	4978.9	8.67	0.17%	[5000]	ug/L
As 188.979†	888.7	14.57	1.64%	[500]	ug/L
B 249.677†	17425.4	220.35	1.26%	[500]	ug/L
Ba 233.527†	52151.2	599.18	1.15%	[500]	ug/L
Be 313.107†	1178012.9	398.78	0.03%	[500]	ug/L
Ca 317.933Radial†	2659.1	11.78	0.44%	[5000]	ug/L
Cd 226.502†	33903.4	423.83	1.25%	[500]	ug/L
Co 228.616†	19162.1	231.67	1.21%	[500]	ug/L
Cr 267.716†	36494.0	382.72	1.05%	[500]	ug/L
Cu 324.752†	148524.4	1966.00	1.32%	[500]	ug/L
K 766.490 Radial†	26312.1	64.56	0.25%	[5000]	ug/L
Mg 279.077 IEC†	127.2	1.09	0.85%	[5000]	ug/L
Mn 257.610†	376514.3	820.24	0.22%	[500]	ug/L
Mo 202.031†	5461.0	74.96	1.37%	[500]	ug/L
Ni 231.604†	15580.2	202.67	1.30%	[500]	ug/L
P 214.914†	3271.6	49.31	1.51%	[2500]	ug/L
Pb 220.353†	3183.1	43.59	1.37%	[500]	ug/L
S 181.975 Axial†	542.5	9.35	1.72%	[1000]	ug/L

Sb 206.836†	1155.8	18.81	1.63%	[500]	ug/L
Se 196.026†	595.7	6.00	1.01%	[500]	ug/L
Si 251.611†	65401.7	866.34	1.32%	[2500]	ug/L
Sn 189.927†	2134.3	23.47	1.10%	[500]	ug/L
Sr 421.552†	63317.6	98.24	0.16%	[500]	ug/L
Ti 334.940†	276625.5	3288.47	1.19%	[500]	ug/L
Tl 190.801†	1257.6	11.12	0.88%	[500]	ug/L
U 409.014†	17133.4	224.44	1.31%	[500]	ug/L
V 292.402†	61820.4	669.03	1.08%	[500]	ug/L
Zn 213.857†	40400.1	498.57	1.23%	[500]	ug/L
SiO2†	65999.8	1040.61	1.58%	[5347.5]	ug/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/22/2010 07:21:33
 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	4523.6	4523.6	99.4 %	07:23:26
1	Y RADIAL	4820.1	4820.1	98.03 %	07:23:26
1	Al 396.153Radial†	9767.9	9902.3	[10000] ug/L	07:23:26
1	Ca 317.933Radial†	5350.4	5365.6	[10000] ug/L	07:23:26
1	Fe 238.204 Radial†	896.6	895.6	[10000] ug/L	07:23:46
1	K 766.490 Radial†	54599.7	52431.7	[10000] ug/L	07:23:26
1	Mg 279.077 IEC†	249.9	251.0	[10000] ug/L	07:23:46
1	Na 589.592 Radial†	28386.1	29281.9	[10000] ug/L	07:23:26
1	Sr 421.552†	127051.3	127810.8	[1000] ug/L	07:23:26
1	Sc 361.383	837928.6	837928.6	99.127 %	07:24:45
1	Y 371.029	694463.0	694463.0	97.408 %	07:24:45
1	Ag 328.068†	193314.1	194859.4	[1000] ug/L	07:24:45
1	As 188.979†	1748.3	1785.7	[1000] ug/L	07:25:05
1	B 249.677†	34727.7	35480.8	[1000] ug/L	07:24:45
1	Ba 233.527†	104501.8	105409.9	[1000] ug/L	07:24:45
1	Be 313.107†	2314265.1	2339097.2	[1000] ug/L	07:24:45
1	Cd 226.502†	67444.5	68186.8	[1000] ug/L	07:24:45
1	Co 228.616†	37759.6	38145.7	[1000] ug/L	07:25:05
1	Cr 267.716†	73036.6	73609.4	[1000] ug/L	07:24:45
1	Cu 324.752†	305972.3	303140.1	[1000] ug/L	07:24:45
1	Mn 257.610†	745345.1	751520.9	[1000] ug/L	07:24:45
1	Mo 202.031†	11167.3	11252.7	[1000] ug/L	07:25:05
1	Ni 231.604†	30929.0	31128.7	[1000] ug/L	07:25:05
1	P 214.914†	6806.1	6665.4	[5000] ug/L	07:25:05
1	Pb 220.353†	6337.8	6442.5	[1000] ug/L	07:25:05
1	S 181.975 Axial†	1135.2	1115.3	[2000] ug/L	07:25:05
1	Sb 206.836†	2379.7	2375.2	[1000] ug/L	07:25:05
1	Se 196.026†	1179.9	1212.4	[1000] ug/L	07:25:05
1	Si 251.611†	130281.6	130909.7	[5000] ug/L	07:24:45
1	Sn 189.927†	4352.0	4386.6	[1000] ug/L	07:25:05
1	Ti 334.940†	574063.4	580163.0	[1000] ug/L	07:24:45
1	Tl 190.801†	2502.7	2553.9	[1000] ug/L	07:25:05
1	U 409.014†	31350.0	33569.2	[1000] ug/L	07:24:45
1	V 292.402†	122520.0	124949.3	[1000] ug/L	07:24:45
1	Zn 213.857†	81068.2	81177.7	[1000] ug/L	07:24:45
1	SiO2†	131924.0	132549.1	[10695] ug/L	07:26:05
2	Sc Radial	4500.9	4500.9	98.9 %	07:23:51
2	Y RADIAL	4813.1	4813.1	97.89 %	07:23:51
2	Al 396.153Radial†	9788.3	9972.7	[10000] ug/L	07:23:51
2	Ca 317.933Radial†	5390.8	5433.7	[10000] ug/L	07:23:51
2	Fe 238.204 Radial†	889.2	892.7	[10000] ug/L	07:24:11
2	K 766.490 Radial†	54666.4	52776.9	[10000] ug/L	07:23:51
2	Mg 279.077 IEC†	246.1	248.5	[10000] ug/L	07:24:11
2	Na 589.592 Radial†	28247.3	29286.0	[10000] ug/L	07:23:51
2	Sr 421.552†	126964.2	128369.0	[1000] ug/L	07:23:51
2	Sc 361.383	848423.3	848423.3	100.37 %	07:25:13
2	Y 371.029	703613.6	703613.6	98.691 %	07:25:13
2	Ag 328.068†	195882.9	195006.4	[1000] ug/L	07:25:13
2	As 188.979†	1759.6	1775.2	[1000] ug/L	07:25:33
2	B 249.677†	35298.2	35616.0	[1000] ug/L	07:25:13
2	Ba 233.527†	105922.4	105521.2	[1000] ug/L	07:25:13
2	Be 313.107†	2346076.2	2341912.7	[1000] ug/L	07:25:13
2	Cd 226.502†	68307.9	68205.4	[1000] ug/L	07:25:13
2	Co 228.616†	37822.1	37736.7	[1000] ug/L	07:25:33
2	Cr 267.716†	74186.3	73843.5	[1000] ug/L	07:25:13
2	Cu 324.752†	309856.5	303191.9	[1000] ug/L	07:25:13
2	Mn 257.610†	755549.1	752386.5	[1000] ug/L	07:25:13
2	Mo 202.031†	11152.1	11098.2	[1000] ug/L	07:25:33
2	Ni 231.604†	30898.8	30712.6	[1000] ug/L	07:25:33

2	P 214.914†	6804.1	6578.5	[5000]	ug/L	07:25:33
2	Pb 220.353†	6330.1	6355.7	[1000]	ug/L	07:25:33
2	S 181.975 Axial†	1137.9	1103.8	[2000]	ug/L	07:25:33
2	Sb 206.836†	2381.5	2347.3	[1000]	ug/L	07:25:33
2	Se 196.026†	1171.2	1189.1	[1000]	ug/L	07:25:33
2	Si 251.611†	132142.9	131138.5	[5000]	ug/L	07:25:13
2	Sn 189.927†	4362.5	4342.7	[1000]	ug/L	07:25:33
2	Ti 334.940†	581607.0	580515.3	[1000]	ug/L	07:25:13
2	Tl 190.801†	2509.6	2529.5	[1000]	ug/L	07:25:33
2	U 409.014†	31742.0	33568.5	[1000]	ug/L	07:25:13
2	V 292.402†	124388.0	125281.6	[1000]	ug/L	07:25:13
2	Zn 213.857†	82314.1	81407.3	[1000]	ug/L	07:25:13
2	SiO2†	132339.6	131317.0	[10695]	ug/L	07:26:11
3	Sc Radial	4525.4	4525.4	99.4	%	07:24:16
3	Y RADIAL	4822.2	4822.2	98.07	%	07:24:16
3	Al 396.153Radial†	9803.5	9934.3	[10000]	ug/L	07:24:16
3	Ca 317.933Radial†	5346.5	5359.6	[10000]	ug/L	07:24:16
3	Fe 238.204 Radial†	899.1	897.8	[10000]	ug/L	07:24:36
3	K 766.490 Radial†	54626.1	52436.6	[10000]	ug/L	07:24:16
3	Mg 279.077 IEC†	250.6	251.7	[10000]	ug/L	07:24:36
3	Na 589.592 Radial†	27995.6	28877.9	[10000]	ug/L	07:24:16
3	Sr 421.552†	126776.3	127483.9	[1000]	ug/L	07:24:16
3	Sc 361.383	844361.3	844361.3	99.888	%	07:25:40
3	Y 371.029	700642.3	700642.3	98.274	%	07:25:40
3	Ag 328.068†	194694.5	194755.6	[1000]	ug/L	07:25:40
3	As 188.979†	1736.3	1760.4	[1000]	ug/L	07:26:00
3	B 249.677†	34955.6	35442.1	[1000]	ug/L	07:25:40
3	Ba 233.527†	105125.2	105230.8	[1000]	ug/L	07:25:40
3	Be 313.107†	2328001.6	2335062.8	[1000]	ug/L	07:25:40
3	Cd 226.502†	67767.9	67992.1	[1000]	ug/L	07:25:40
3	Co 228.616†	37677.5	37773.3	[1000]	ug/L	07:26:00
3	Cr 267.716†	73534.1	73546.2	[1000]	ug/L	07:25:40
3	Cu 324.752†	307820.0	302638.3	[1000]	ug/L	07:25:40
3	Mn 257.610†	750095.6	750548.3	[1000]	ug/L	07:25:40
3	Mo 202.031†	11126.4	11126.0	[1000]	ug/L	07:26:00
3	Ni 231.604†	30865.0	30826.9	[1000]	ug/L	07:26:00
3	P 214.914†	6780.5	6587.4	[5000]	ug/L	07:26:00
3	Pb 220.353†	6338.7	6394.7	[1000]	ug/L	07:26:00
3	S 181.975 Axial†	1132.8	1104.2	[2000]	ug/L	07:26:00
3	Sb 206.836†	2367.5	2344.7	[1000]	ug/L	07:26:00
3	Se 196.026†	1180.8	1204.3	[1000]	ug/L	07:26:00
3	Si 251.611†	131136.3	130764.1	[5000]	ug/L	07:25:40
3	Sn 189.927†	4337.9	4339.0	[1000]	ug/L	07:26:00
3	Ti 334.940†	578119.3	579811.5	[1000]	ug/L	07:25:40
3	Tl 190.801†	2500.3	2532.2	[1000]	ug/L	07:26:00
3	U 409.014†	31839.0	33817.8	[1000]	ug/L	07:25:40
3	V 292.402†	123654.5	125143.5	[1000]	ug/L	07:25:40
3	Zn 213.857†	81519.6	81006.5	[1000]	ug/L	07:25:40
3	SiO2†	131535.6	131146.4	[10695]	ug/L	07:26:16

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	843571.0	5291.79	0.63%	99.795 %
Sc Radial	4516.6	13.68	0.30%	99.2 %
Y 371.029	699573.0	4668.10	0.67%	98.124 %
Y RADIAL	4818.5	4.74	0.10%	98.00 %
Ag 328.068†	194873.8	126.03	0.06%	[1000] ug/L
Al 396.153Radial†	9936.4	35.21	0.35%	[10000] ug/L
As 188.979†	1773.8	12.75	0.72%	[1000] ug/L
B 249.677†	35513.0	91.26	0.26%	[1000] ug/L
Ba 233.527†	105387.3	146.49	0.14%	[1000] ug/L
Be 313.107†	2338690.9	3442.96	0.15%	[1000] ug/L
Ca 317.933Radial†	5386.3	41.18	0.76%	[10000] ug/L
Cd 226.502†	68128.1	118.12	0.17%	[1000] ug/L
Co 228.616†	37885.2	226.30	0.60%	[1000] ug/L
Cr 267.716†	73666.4	156.65	0.21%	[1000] ug/L
Cu 324.752†	302990.1	305.77	0.10%	[1000] ug/L
Fe 238.204 Radial†	895.4	2.56	0.29%	[10000] ug/L
K 766.490 Radial†	52548.4	197.92	0.38%	[10000] ug/L

Mg 279.077 IEC†	250.4	1.66	0.66%	[10000]	ug/L
Mn 257.610†	751485.2	919.65	0.12%	[1000]	ug/L
Mo 202.031†	11159.0	82.39	0.74%	[1000]	ug/L
Na 589.592 Radial†	29148.6	234.44	0.80%	[10000]	ug/L
Ni 231.604†	30889.4	214.97	0.70%	[1000]	ug/L
P 214.914†	6610.4	47.81	0.72%	[5000]	ug/L
Pb 220.353†	6397.7	43.47	0.68%	[1000]	ug/L
S 181.975 Axial†	1107.8	6.53	0.59%	[2000]	ug/L
Sb 206.836†	2355.7	16.94	0.72%	[1000]	ug/L
Se 196.026†	1201.9	11.87	0.99%	[1000]	ug/L
Si 251.611†	130937.4	188.72	0.14%	[5000]	ug/L
Sn 189.927†	4356.1	26.48	0.61%	[1000]	ug/L
Sr 421.552†	127887.9	447.60	0.35%	[1000]	ug/L
Ti 334.940†	580163.3	351.94	0.06%	[1000]	ug/L
Tl 190.801†	2538.5	13.36	0.53%	[1000]	ug/L
U 409.014†	33651.8	143.73	0.43%	[1000]	ug/L
V 292.402†	125124.8	166.92	0.13%	[1000]	ug/L
Zn 213.857†	81197.2	201.13	0.25%	[1000]	ug/L
SiO2†	131670.8	765.36	0.58%	[10695]	ug/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 3/22/2010 07:28:26
 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	4386.9	4386.9	96.4 %	07:30:40
1	Y RADIAL	4680.0	4680.0	95.18 %	07:30:40
1	Al 396.153Radial†	49485.8	51421.7	[50000] ug/L	07:30:20
1	Ca 317.933Radial†	25905.8	26862.6	[50000] ug/L	07:30:20
1	Fe 238.204 Radial†	1681.3	1738.0	[20000] ug/L	07:30:40
1	Mg 279.077 IEC†	1162.8	1206.1	[50000] ug/L	07:30:40
1	Na 589.592 Radial†	55380.6	58183.1	[20000] ug/L	07:30:20
1	Sc 361.383	830639.6	830639.6	98.265 %	07:31:37
1	Y 371.029	687317.0	687317.0	96.405 %	07:31:37
2	Sc Radial	4387.5	4387.5	96.4 %	07:31:05
2	Y RADIAL	4702.4	4702.4	95.64 %	07:31:05
2	Al 396.153Radial†	48037.9	49911.9	[50000] ug/L	07:30:45
2	Ca 317.933Radial†	25301.2	26231.3	[50000] ug/L	07:30:45
2	Fe 238.204 Radial†	1674.9	1731.0	[20000] ug/L	07:31:05
2	Mg 279.077 IEC†	1161.0	1204.2	[50000] ug/L	07:31:05
2	Na 589.592 Radial†	53607.9	56335.3	[20000] ug/L	07:30:45
2	Sc 361.383	828236.8	828236.8	97.981 %	07:31:43
2	Y 371.029	684614.2	684614.2	96.026 %	07:31:43
3	Sc Radial	4440.2	4440.2	97.5 %	07:31:30
3	Y RADIAL	4734.4	4734.4	96.29 %	07:31:30
3	Al 396.153Radial†	49093.1	50402.3	[50000] ug/L	07:31:10
3	Ca 317.933Radial†	25713.8	26342.8	[50000] ug/L	07:31:10
3	Fe 238.204 Radial†	1686.5	1722.4	[20000] ug/L	07:31:30
3	Mg 279.077 IEC†	1165.9	1194.9	[50000] ug/L	07:31:30
3	Na 589.592 Radial†	54465.9	56555.0	[20000] ug/L	07:31:10
3	Sc 361.383	828944.0	828944.0	98.064 %	07:31:48
3	Y 371.029	685463.2	685463.2	96.145 %	07:31:48

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	829273.5	1234.81	0.15%	98.103 %
Sc Radial	4404.9	30.61	0.69%	96.8 %
Y 371.029	685798.1	1382.16	0.20%	96.192 %
Y RADIAL	4705.6	27.31	0.58%	95.70 %
Al 396.153Radial†	50578.6	770.21	1.52%	[50000] ug/L
Ca 317.933Radial†	26478.9	336.91	1.27%	[50000] ug/L
Fe 238.204 Radial†	1730.4	7.82	0.45%	[20000] ug/L
Mg 279.077 IEC†	1201.7	6.00	0.50%	[50000] ug/L
Na 589.592 Radial†	57024.5	1009.39	1.77%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	194.0	0.00000	0.999956	
Al 396.153Radial	3	Lin Thru 0	0.0	1.011	0.00000	0.999993	
As 188.979	3	Lin Thru 0	0.0	1.775	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	35.38	0.00000	0.999971	
Ba 233.527	3	Lin Thru 0	0.0	105.2	0.00000	0.999987	
Be 313.107	3	Lin Thru 0	0.0	2342	0.00000	0.999995	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5299	0.00000	0.999995	
Cd 226.502	3	Lin Thru 0	0.0	68.07	0.00000	0.999998	
Co 228.616	3	Lin Thru 0	0.0	37.98	0.00000	0.999985	
Cr 267.716	3	Lin Thru 0	0.0	73.55	0.00000	0.999990	
Cu 324.752	3	Lin Thru 0	0.0	301.8	0.00000	0.999968	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0871	0.00000	0.999904	
K 766.490 Radial	3	Lin Thru 0	0.0	5.256	0.00000	0.999999	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0241	0.00000	0.999953
Mn 257.610	3	Lin Thru 0	0.0	752.0	0.00000	0.999994
Mo 202.031	3	Lin Thru 0	0.0	11.11	0.00000	0.999963
Na 589.592 Radia	2	Lin Thru 0	0.0	2.864	0.00000	0.999961
Ni 231.604	3	Lin Thru 0	0.0	30.95	0.00000	0.999990
P 214.914	3	Lin Thru 0	0.0	1.319	0.00000	0.999992
Pb 220.353	3	Lin Thru 0	0.0	6.393	0.00000	0.999996
S 181.975 Axial	3	Lin Thru 0	0.0	0.5519	0.00000	0.999952
Sb 206.836	3	Lin Thru 0	0.0	2.347	0.00000	0.999971
Se 196.026	3	Lin Thru 0	0.0	1.201	0.00000	0.999974
Si 251.611	3	Lin Thru 0	0.0	26.18	0.00000	0.999999
Sn 189.927	3	Lin Thru 0	0.0	4.339	0.00000	0.999967
Sr 421.552	3	Lin Thru 0	0.0	127.6	0.00000	0.999992
Ti 334.940	3	Lin Thru 0	0.0	574.9	0.00000	0.999824
Tl 190.801	3	Lin Thru 0	0.0	2.534	0.00000	0.999993
U 409.014	3	Lin Thru 0	0.0	33.80	0.00000	0.999944
V 292.402	3	Lin Thru 0	0.0	124.8	0.00000	0.999988
Zn 213.857	3	Lin Thru 0	0.0	81.14	0.00000	0.999993
SiO2	3	Lin Thru 0	0.0	12.32	0.00000	0.999999

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 3/22/2010 07:34:00
 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	4636.1	4636.1	102 %		07:35:52
1	Y RADIAL	4948.2	4948.2	100.6 %		07:35:52
1	Al 396.153Radial†	5096.3	5077.0	4996.5 ug/L	4996.5 ppb	07:35:52
1	Ca 317.933Radial†	2719.5	2651.8	5004.0 ug/L	5004.0 ppb	07:36:12
1	Fe 238.204 Radial†	463.8	448.8	5166.6 ug/L	5166.6 ppb	07:36:12
1	K 766.490 Radial†	15903.2	13104.2	2489.8 ug/L	2489.8 ppb	07:35:52
1	Mg 279.077 IEC†	134.4	131.6	5462.6 ug/L	5462.6 ppb	07:36:12
1	Na 589.592 Radial†	6744.0	7339.4	2562.7 ug/L	2562.7 ppb	07:35:52
1	Sr 421.552†	69268.5	67974.5	532.53 ug/L	532.53 ppb	07:35:52
1	Sc 361.383	853000.0	853000.0	100.91 %		07:37:10
1	Y 371.029	712184.7	712184.7	99.893 %		07:37:10
1	Ag 328.068†	51887.2	51262.5	267.43 ug/L	267.43 ppb	07:37:10
1	As 188.979†	842.1	856.5	486.98 ug/L	486.98 ppb	07:37:30
1	B 249.677†	18387.1	18668.7	525.39 ug/L	525.39 ppb	07:37:10
1	Ba 233.527†	54995.1	54487.1	519.26 ug/L	519.26 ppb	07:37:10
1	Be 313.107†	626907.9	625710.4	268.28 ug/L	268.28 ppb	07:37:10
1	Cd 226.502†	34645.6	34481.5	506.49 ug/L	506.49 ppb	07:37:10
1	Co 228.616†	19995.0	19868.2	523.24 ug/L	523.24 ppb	07:37:10
1	Cr 267.716†	36901.1	36498.1	497.33 ug/L	497.33 ppb	07:37:10
1	Cu 324.752†	163063.2	156066.3	517.03 ug/L	517.03 ppb	07:37:10
1	Mn 257.610†	398416.6	394436.5	524.79 ug/L	524.79 ppb	07:37:10
1	Mo 202.031†	6157.3	6088.9	548.39 ug/L	548.39 ppb	07:37:30
1	Ni 231.604†	16338.4	16118.4	520.46 ug/L	520.46 ppb	07:37:10
1	P 214.914†	3592.6	3359.6	2445.8 ug/L	2445.8 ppb	07:37:30
1	Pb 220.353†	3206.4	3226.4	506.23 ug/L	506.23 ppb	07:37:30
1	S 181.975 Axial†	1461.4	1418.4	2569.1 ug/L	2569.1 ppb	07:37:30
1	Sb 206.836†	1246.3	1209.6	535.10 ug/L	535.10 ppb	07:37:30
1	Se 196.026†	3117.2	3111.2	2609.6 ug/L	2609.6 ppb	07:37:30
1	Si 251.611†	129969.5	128278.3	4892.3 ug/L	4892.3 ppb	07:37:10
1	Sn 189.927†	2397.6	2372.2	547.31 ug/L	547.31 ppb	07:37:30
1	Ti 334.940†	294987.7	293372.4	510.14 ug/L	510.14 ppb	07:37:10
1	Tl 190.801†	1351.8	1368.7	543.60 ug/L	543.60 ppb	07:37:30
1	U 409.014†	15567.1	17369.8	512.23 ug/L	512.23 ppb	07:37:10
1	V 292.402†	64353.1	65123.3	529.00 ug/L	529.00 ppb	07:37:10
1	Zn 213.857†	43541.2	42544.1	519.54 ug/L	519.54 ppb	07:37:10
1	SiO2†	132281.6	130552.0	10584 ug/L	10584 ppb	07:38:28
2	Sc Radial	4601.9	4601.9	101 %		07:36:18
2	Y RADIAL	4920.4	4920.4	100.1 %		07:36:18
2	Al 396.153Radial†	5043.7	5062.2	4982.0 ug/L	4982.0 ppb	07:36:18
2	Ca 317.933Radial†	2694.6	2647.0	4994.9 ug/L	4994.9 ppb	07:36:38
2	Fe 238.204 Radial†	459.7	448.1	5158.5 ug/L	5158.5 ppb	07:36:38
2	K 766.490 Radial†	15952.1	13268.8	2521.2 ug/L	2521.2 ppb	07:36:18
2	Mg 279.077 IEC†	131.1	129.3	5368.7 ug/L	5368.7 ppb	07:36:38
2	Na 589.592 Radial†	6580.8	7227.3	2523.5 ug/L	2523.5 ppb	07:36:18
2	Sr 421.552†	68682.0	67900.3	531.95 ug/L	531.95 ppb	07:36:18
2	Sc 361.383	850343.8	850343.8	100.60 %		07:37:36
2	Y 371.029	709816.6	709816.6	99.561 %		07:37:36
2	Ag 328.068†	51703.7	51240.7	267.32 ug/L	267.32 ppb	07:37:36
2	As 188.979†	828.9	846.0	481.07 ug/L	481.07 ppb	07:37:56
2	B 249.677†	18450.4	18788.5	528.78 ug/L	528.78 ppb	07:37:36
2	Ba 233.527†	54861.9	54524.9	519.62 ug/L	519.62 ppb	07:37:36
2	Be 313.107†	625164.7	625918.1	268.37 ug/L	268.37 ppb	07:37:36
2	Cd 226.502†	34634.5	34577.8	507.90 ug/L	507.90 ppb	07:37:36
2	Co 228.616†	19935.0	19870.5	523.29 ug/L	523.29 ppb	07:37:36
2	Cr 267.716†	36839.3	36550.9	498.05 ug/L	498.05 ppb	07:37:36
2	Cu 324.752†	162151.3	155664.6	515.70 ug/L	515.70 ppb	07:37:36
2	Mn 257.610†	397810.9	395067.6	525.63 ug/L	525.63 ppb	07:37:36
2	Mo 202.031†	6102.3	6053.2	545.18 ug/L	545.18 ppb	07:37:56
2	Ni 231.604†	16312.5	16143.2	521.26 ug/L	521.26 ppb	07:37:36

2	P 214.914†	3562.0	3340.2	2431.4 ug/L	2431.4 ppb	07:37:56
2	Pb 220.353†	3191.8	3221.8	505.50 ug/L	505.50 ppb	07:37:56
2	S 181.975 Axial†	1429.0	1390.7	2519.0 ug/L	2519.0 ppb	07:37:56
2	Sb 206.836†	1247.8	1215.0	537.27 ug/L	537.27 ppb	07:37:56
2	Se 196.026†	3089.7	3093.5	2594.9 ug/L	2594.9 ppb	07:37:56
2	Si 251.611†	129465.4	128179.6	4888.5 ug/L	4888.5 ppb	07:37:36
2	Sn 189.927†	2378.4	2360.6	544.62 ug/L	544.62 ppb	07:37:56
2	Ti 334.940†	294024.9	293328.4	510.07 ug/L	510.07 ppb	07:37:36
2	Tl 190.801†	1353.3	1374.3	545.84 ug/L	545.84 ppb	07:37:56
2	U 409.014†	15295.1	17147.7	505.66 ug/L	505.66 ppb	07:37:36
2	V 292.402†	64046.6	65017.9	528.10 ug/L	528.10 ppb	07:37:36
2	Zn 213.857†	43469.3	42607.4	520.32 ug/L	520.32 ppb	07:37:36
2	SiO2†	130761.0	129450.0	10495 ug/L	10495 ppb	07:38:33
3	Sc Radial	4573.4	4573.4	100 %		07:36:43
3	Y RADIAL	4923.4	4923.4	100.1 %		07:36:43
3	Al 396.153Radial†	5072.8	5122.2	5041.7 ug/L	5041.7 ppb	07:36:43
3	Ca 317.933Radial†	2692.4	2661.4	5022.1 ug/L	5022.1 ppb	07:37:03
3	Fe 238.204 Radial†	460.1	451.4	5196.1 ug/L	5196.1 ppb	07:37:03
3	K 766.490 Radial†	15864.2	13279.6	2523.2 ug/L	2523.2 ppb	07:36:43
3	Mg 279.077 IEC†	131.1	130.1	5401.1 ug/L	5401.1 ppb	07:37:03
3	Na 589.592 Radial†	6609.1	7296.0	2547.5 ug/L	2547.5 ppb	07:36:43
3	Sr 421.552†	68535.7	68177.9	534.13 ug/L	534.13 ppb	07:36:43
3	Sc 361.383	864231.6	864231.6	102.24 %		07:38:02
3	Y 371.029	722475.9	722475.9	101.34 %		07:38:02
3	Ag 328.068†	52505.0	51198.5	267.11 ug/L	267.11 ppb	07:38:02
3	As 188.979†	843.0	846.7	481.44 ug/L	481.44 ppb	07:38:22
3	B 249.677†	18688.4	18726.6	527.03 ug/L	527.03 ppb	07:38:02
3	Ba 233.527†	55726.9	54494.6	519.33 ug/L	519.33 ppb	07:38:02
3	Be 313.107†	637246.6	627748.8	269.15 ug/L	269.15 ppb	07:38:02
3	Cd 226.502†	35139.8	34518.7	507.03 ug/L	507.03 ppb	07:38:02
3	Co 228.616†	20185.8	19797.4	521.35 ug/L	521.35 ppb	07:38:02
3	Cr 267.716†	37424.1	36534.4	497.83 ug/L	497.83 ppb	07:38:02
3	Cu 324.752†	164479.7	155351.7	514.66 ug/L	514.66 ppb	07:38:02
3	Mn 257.610†	403976.0	394743.0	525.20 ug/L	525.20 ppb	07:38:02
3	Mo 202.031†	6128.4	5981.3	538.71 ug/L	538.71 ppb	07:38:22
3	Ni 231.604†	16609.8	16173.4	522.24 ug/L	522.24 ppb	07:38:02
3	P 214.914†	3549.1	3270.7	2378.8 ug/L	2378.8 ppb	07:38:22
3	Pb 220.353†	3196.6	3175.5	498.25 ug/L	498.25 ppb	07:38:22
3	S 181.975 Axial†	1430.3	1369.1	2479.8 ug/L	2479.8 ppb	07:38:22
3	Sb 206.836†	1241.8	1189.1	526.03 ug/L	526.03 ppb	07:38:22
3	Se 196.026†	3090.8	3045.3	2554.8 ug/L	2554.8 ppb	07:38:22
3	Si 251.611†	131307.9	127913.6	4878.4 ug/L	4878.4 ppb	07:38:02
3	Sn 189.927†	2390.2	2334.1	538.53 ug/L	538.53 ppb	07:38:22
3	Ti 334.940†	298630.7	293136.5	509.74 ug/L	509.74 ppb	07:38:02
3	Tl 190.801†	1341.8	1341.5	532.90 ug/L	532.90 ppb	07:38:22
3	U 409.014†	15703.7	17302.9	510.25 ug/L	510.25 ppb	07:38:02
3	V 292.402†	65354.3	65273.8	530.06 ug/L	530.06 ppb	07:38:02
3	Zn 213.857†	44089.1	42519.2	519.22 ug/L	519.22 ppb	07:38:02
3	SiO2†	130839.3	127437.7	10331 ug/L	10331 ppb	07:38:38

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	855858.5	101.25 %		0.872			0.86%
Sc Radial	4603.8	101 %		0.7			0.68%
Y 371.029	714825.7	100.26 %		0.944			0.94%
Y RADIAL	4930.7	100.3 %		0.31			0.31%
Ag 328.068†	51233.9	267.29 ug/L		0.159	267.29 ppb	0.159	0.06%
QC value within limits for Ag 328.068 Recovery = 106.91%							
Al 396.153Radial†	5087.1	5006.7 ug/L		31.16	5006.7 ppb	31.16	0.62%
QC value within limits for Al 396.153Radial Recovery = 100.13%							
As 188.979†	849.7	483.16 ug/L		3.311	483.16 ppb	3.311	0.69%
QC value within limits for As 188.979 Recovery = 96.63%							
B 249.677†	18727.9	527.07 ug/L		1.694	527.07 ppb	1.694	0.32%
QC value within limits for B 249.677 Recovery = 105.41%							
Ba 233.527†	54502.2	519.40 ug/L		0.189	519.40 ppb	0.189	0.04%
QC value within limits for Ba 233.527 Recovery = 103.88%							
Be 313.107†	626459.1	268.60 ug/L		0.478	268.60 ppb	0.478	0.18%
QC value within limits for Be 313.107 Recovery = 107.44%							
Ca 317.933Radial†	2653.4	5007.0 ug/L		13.84	5007.0 ppb	13.84	0.28%

QC value within limits for Ca 317.933 Radial Recovery = 100.14%							
Cd 226.502†	34526.0	507.14 ug/L	0.714	507.14 ppb	0.714	0.14%	
QC value within limits for Cd 226.502 Recovery = 101.43%							
Co 228.616†	19845.4	522.63 ug/L	1.105	522.63 ppb	1.105	0.21%	
QC value within limits for Co 228.616 Recovery = 104.53%							
Cr 267.716†	36527.8	497.74 ug/L	0.368	497.74 ppb	0.368	0.07%	
QC value within limits for Cr 267.716 Recovery = 99.55%							
Cu 324.752†	155694.2	515.80 ug/L	1.185	515.80 ppb	1.185	0.23%	
QC value within limits for Cu 324.752 Recovery = 103.16%							
Fe 238.204 Radial†	449.4	5173.7 ug/L	19.81	5173.7 ppb	19.81	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 103.47%							
K 766.490 Radial†	13217.5	2511.4 ug/L	18.71	2511.4 ppb	18.71	0.75%	
QC value within limits for K 766.490 Radial Recovery = 100.46%							
Mg 279.077 IEC†	130.3	5410.8 ug/L	47.68	5410.8 ppb	47.68	0.88%	
QC value within limits for Mg 279.077 IEC Recovery = 108.22%							
Mn 257.610†	394749.0	525.21 ug/L	0.421	525.21 ppb	0.421	0.08%	
QC value within limits for Mn 257.610 Recovery = 105.04%							
Mo 202.031†	6041.1	544.09 ug/L	4.930	544.09 ppb	4.930	0.91%	
QC value within limits for Mo 202.031 Recovery = 108.82%							
Na 589.592 Radial†	7287.5	2544.6 ug/L	19.74	2544.6 ppb	19.74	0.78%	
QC value within limits for Na 589.592 Radial Recovery = 101.78%							
Ni 231.604†	16145.0	521.32 ug/L	0.891	521.32 ppb	0.891	0.17%	
QC value within limits for Ni 231.604 Recovery = 104.26%							
P 214.914†	3323.5	2418.7 ug/L	35.26	2418.7 ppb	35.26	1.46%	
QC value within limits for P 214.914 Recovery = 96.75%							
Pb 220.353†	3207.9	503.32 ug/L	4.408	503.32 ppb	4.408	0.88%	
QC value within limits for Pb 220.353 Recovery = 100.66%							
S 181.975 Axial†	1392.7	2522.6 ug/L	44.76	2522.6 ppb	44.76	1.77%	
QC value within limits for S 181.975 Axial Recovery = 100.90%							
Sb 206.836†	1204.6	532.80 ug/L	5.963	532.80 ppb	5.963	1.12%	
QC value within limits for Sb 206.836 Recovery = 106.56%							
Se 196.026†	3083.3	2586.4 ug/L	28.39	2586.4 ppb	28.39	1.10%	
QC value within limits for Se 196.026 Recovery = 103.46%							
Si 251.611†	128123.8	4886.4 ug/L	7.14	4886.4 ppb	7.14	0.15%	
QC value within limits for Si 251.611 Recovery = 97.73%							
Sn 189.927†	2355.7	543.48 ug/L	4.499	543.48 ppb	4.499	0.83%	
QC value within limits for Sn 189.927 Recovery = 108.70%							
Sr 421.552†	68017.5	532.87 ug/L	1.126	532.87 ppb	1.126	0.21%	
QC value within limits for Sr 421.552 Recovery = 106.57%							
Ti 334.940†	293279.1	509.98 ug/L	0.215	509.98 ppb	0.215	0.04%	
QC value within limits for Ti 334.940 Recovery = 102.00%							
Tl 190.801†	1361.5	540.78 ug/L	6.916	540.78 ppb	6.916	1.28%	
QC value within limits for Tl 190.801 Recovery = 108.16%							
U 409.014†	17273.5	509.38 ug/L	3.372	509.38 ppb	3.372	0.66%	
QC value within limits for U 409.014 Recovery = 101.88%							
V 292.402†	65138.3	529.05 ug/L	0.982	529.05 ppb	0.982	0.19%	
QC value within limits for V 292.402 Recovery = 105.81%							
Zn 213.857†	42556.9	519.69 ug/L	0.565	519.69 ppb	0.565	0.11%	
QC value within limits for Zn 213.857 Recovery = 103.94%							
SiO2†	129146.6	10470 ug/L	128.1	10470 ppb	128.1	1.22%	
QC value within limits for SiO2 Recovery = 97.90%							
All analyte(s) passed QC.							

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 3/22/2010 07:40:49
 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	4615.1	4615.1	101 %		07:42:42
1	Y RADIAL	4953.8	4953.8	100.8 %		07:42:42
1	Al 396.153Radial†	-75.5	-1.3	-1.3073 ug/L	-1.3073 ppb	07:43:02
1	Ca 317.933Radial†	22.2	3.5	6.6558 ug/L	6.6558 ppb	07:43:02
1	Fe 238.204 Radial†	11.5	4.7	53.507 ug/L	53.507 ppb	07:43:02
1	K 766.490 Radial†	2436.2	-107.5	-20.453 ug/L	-20.453 ppb	07:42:42
1	Mg 279.077 IEC†	4.1	3.7	151.59 ug/L	151.59 ppb	07:43:02
1	Na 589.592 Radial†	-753.8	-25.7	-8.9798 ug/L	-8.9798 ppb	07:42:42
1	Sr 421.552†	34.9	-3.1	-0.0241 ug/L	-0.0241 ppb	07:42:42
1	Sc 361.383	845450.6	845450.6	100.02 %		07:43:59
1	Y 371.029	713368.7	713368.7	100.06 %		07:43:59
1	Ag 328.068†	173.3	16.6	0.1044 ug/L	0.1044 ppb	07:43:59
1	As 188.979†	-23.9	-1.8	-0.9924 ug/L	-0.9924 ppb	07:44:19
1	B 249.677†	-52.6	394.8	11.152 ug/L	11.152 ppb	07:44:19
1	Ba 233.527†	20.3	8.3	0.0813 ug/L	0.0813 ppb	07:44:19
1	Be 313.107†	-4325.6	132.5	0.0563 ug/L	0.0563 ppb	07:43:59
1	Cd 226.502†	-161.5	-13.0	-0.1970 ug/L	-0.1970 ppb	07:44:19
1	Co 228.616†	-56.3	-2.6	-0.0677 ug/L	-0.0677 ppb	07:44:19
1	Cr 267.716†	77.7	7.5	0.1092 ug/L	0.1092 ppb	07:44:19
1	Cu 324.752†	5490.7	-36.2	-0.1166 ug/L	-0.1166 ppb	07:43:59
1	Mn 257.610†	437.9	51.5	0.0676 ug/L	0.0676 ppb	07:44:19
1	Mo 202.031†	23.8	10.9	0.9815 ug/L	0.9815 ppb	07:44:19
1	Ni 231.604†	90.1	17.5	0.5643 ug/L	0.5643 ppb	07:44:19
1	P 214.914†	196.7	-4.0	-3.0302 ug/L	-3.0302 ppb	07:44:19
1	Pb 220.353†	-43.0	5.9	0.9164 ug/L	0.9164 ppb	07:44:19
1	S 181.975 Axial†	32.9	3.0	5.4652 ug/L	5.4652 ppb	07:44:19
1	Sb 206.836†	28.6	3.1	1.3910 ug/L	1.3910 ppb	07:44:19
1	Se 196.026†	-25.4	-3.2	-2.5011 ug/L	-2.5011 ppb	07:44:19
1	Si 251.611†	547.3	28.4	1.0736 ug/L	1.0736 ppb	07:44:19
1	Sn 189.927†	12.5	8.8	2.0148 ug/L	2.0148 ppb	07:44:19
1	Ti 334.940†	-1113.8	-68.1	-0.1295 ug/L	-0.1295 ppb	07:43:59
1	Tl 190.801†	-37.8	-8.7	-3.4446 ug/L	-3.4446 ppb	07:44:19
1	U 409.014†	-1980.2	-36.7	-1.0929 ug/L	-1.0929 ppb	07:43:59
1	V 292.402†	-1304.2	46.8	0.3815 ug/L	0.3815 ppb	07:43:59
1	Zn 213.857†	626.2	21.8	0.2566 ug/L	0.2566 ppb	07:44:19
1	SiO2†	575.1	38.7	3.1159 ug/L	3.1159 ppb	07:45:30
2	Sc Radial	4575.7	4575.7	101 %		07:43:07
2	Y RADIAL	4918.4	4918.4	100.0 %		07:43:07
2	Al 396.153Radial†	-78.8	-5.3	-5.1930 ug/L	-5.1930 ppb	07:43:27
2	Ca 317.933Radial†	18.8	0.3	0.6508 ug/L	0.6508 ppb	07:43:27
2	Fe 238.204 Radial†	8.2	1.5	17.559 ug/L	17.559 ppb	07:43:27
2	K 766.490 Radial†	2401.5	-121.4	-23.098 ug/L	-23.098 ppb	07:43:07
2	Mg 279.077 IEC†	-0.5	-0.9	-37.747 ug/L	-37.747 ppb	07:43:27
2	Na 589.592 Radial†	-728.9	-7.4	-2.5732 ug/L	-2.5732 ppb	07:43:07
2	Sr 421.552†	58.6	20.9	0.1634 ug/L	0.1634 ppb	07:43:07
2	Sc 361.383	850024.8	850024.8	100.56 %		07:44:24
2	Y 371.029	717782.7	717782.7	100.68 %		07:44:24
2	Ag 328.068†	161.5	4.0	0.0237 ug/L	0.0237 ppb	07:44:24
2	As 188.979†	-19.9	2.3	1.3175 ug/L	1.3175 ppb	07:44:44
2	B 249.677†	-18.8	428.8	12.116 ug/L	12.116 ppb	07:44:44
2	Ba 233.527†	17.9	5.8	0.0576 ug/L	0.0576 ppb	07:44:44
2	Be 313.107†	-4374.0	107.6	0.0461 ug/L	0.0461 ppb	07:44:24
2	Cd 226.502†	-143.5	5.8	0.0848 ug/L	0.0848 ppb	07:44:44
2	Co 228.616†	-43.7	10.1	0.2663 ug/L	0.2663 ppb	07:44:44
2	Cr 267.716†	61.0	-9.6	-0.1296 ug/L	-0.1296 ppb	07:44:44
2	Cu 324.752†	5548.1	-8.8	-0.0316 ug/L	-0.0316 ppb	07:44:24
2	Mn 257.610†	504.8	115.7	0.1572 ug/L	0.1572 ppb	07:44:44
2	Mo 202.031†	11.5	-1.5	-0.1311 ug/L	-0.1311 ppb	07:44:44
2	Ni 231.604†	83.9	10.8	0.3491 ug/L	0.3491 ppb	07:44:44

2	P 214.914†	183.5	-18.2	-13.800 ug/L	-13.800 ppb	07:44:44
2	Pb 220.353†	-51.8	-2.6	-0.4171 ug/L	-0.4171 ppb	07:44:44
2	S 181.975 Axial†	29.0	-1.1	-1.9182 ug/L	-1.9182 ppb	07:44:44
2	Sb 206.836†	27.7	2.1	0.8978 ug/L	0.8978 ppb	07:44:44
2	Se 196.026†	-12.3	10.0	8.3634 ug/L	8.3634 ppb	07:44:44
2	Si 251.611†	557.6	35.7	1.3637 ug/L	1.3637 ppb	07:44:44
2	Sn 189.927†	7.3	3.6	0.8263 ug/L	0.8263 ppb	07:44:44
2	Ti 334.940†	-1015.7	35.5	0.0621 ug/L	0.0621 ppb	07:44:24
2	Tl 190.801†	-31.8	-2.5	-0.9809 ug/L	-0.9809 ppb	07:44:44
2	U 409.014†	-1735.6	217.2	6.4251 ug/L	6.4251 ppb	07:44:24
2	V 292.402†	-1261.2	96.5	0.7802 ug/L	0.7802 ppb	07:44:24
2	Zn 213.857†	652.9	45.0	0.5492 ug/L	0.5492 ppb	07:44:44
2	SiO2†	581.6	42.0	3.4137 ug/L	3.4137 ppb	07:45:50
3	Sc Radial	4555.0	4555.0	100 %		07:43:32
3	Y RADIAL	4912.6	4912.6	99.91 %		07:43:32
3	Al 396.153Radial†	-67.7	5.5	5.4157 ug/L	5.4157 ppb	07:43:52
3	Ca 317.933Radial†	22.5	4.1	7.7487 ug/L	7.7487 ppb	07:43:52
3	Fe 238.204 Radial†	8.1	1.5	16.800 ug/L	16.800 ppb	07:43:52
3	K 766.490 Radial†	2409.5	-102.6	-19.512 ug/L	-19.512 ppb	07:43:32
3	Mg 279.077 IEC†	1.5	1.1	44.170 ug/L	44.170 ppb	07:43:52
3	Na 589.592 Radial†	-762.9	-44.6	-15.574 ug/L	-15.574 ppb	07:43:32
3	Sr 421.552†	57.6	20.2	0.1578 ug/L	0.1578 ppb	07:43:32
3	Sc 361.383	854137.6	854137.6	101.04 %		07:44:49
3	Y 371.029	721804.6	721804.6	101.24 %		07:44:49
3	Ag 328.068†	147.3	-10.9	-0.0507 ug/L	-0.0507 ppb	07:44:49
3	As 188.979†	-26.3	-3.9	-2.2209 ug/L	-2.2209 ppb	07:45:09
3	B 249.677†	-43.2	404.7	11.436 ug/L	11.436 ppb	07:45:09
3	Ba 233.527†	11.8	-0.3	-0.0009 ug/L	-0.0009 ppb	07:45:09
3	Be 313.107†	-4398.5	104.3	0.0449 ug/L	0.0449 ppb	07:44:49
3	Cd 226.502†	-146.3	3.7	0.0525 ug/L	0.0525 ppb	07:45:09
3	Co 228.616†	-40.4	13.6	0.3599 ug/L	0.3599 ppb	07:45:09
3	Cr 267.716†	59.3	-11.5	-0.1550 ug/L	-0.1550 ppb	07:45:09
3	Cu 324.752†	5659.8	75.3	0.2489 ug/L	0.2489 ppb	07:44:49
3	Mn 257.610†	538.7	146.8	0.1951 ug/L	0.1951 ppb	07:45:09
3	Mo 202.031†	20.4	7.3	0.6553 ug/L	0.6553 ppb	07:45:09
3	Ni 231.604†	73.6	0.2	0.0076 ug/L	0.0076 ppb	07:45:09
3	P 214.914†	191.8	-10.8	-8.2300 ug/L	-8.2300 ppb	07:45:09
3	Pb 220.353†	-39.7	9.7	1.5110 ug/L	1.5110 ppb	07:45:09
3	S 181.975 Axial†	21.8	-8.3	-15.058 ug/L	-15.058 ppb	07:45:09
3	Sb 206.836†	35.1	9.3	4.0012 ug/L	4.0012 ppb	07:45:09
3	Se 196.026†	-17.8	4.6	3.8690 ug/L	3.8690 ppb	07:45:09
3	Si 251.611†	570.6	45.9	1.7452 ug/L	1.7452 ppb	07:45:09
3	Sn 189.927†	12.0	8.2	1.8864 ug/L	1.8864 ppb	07:45:09
3	Ti 334.940†	-964.6	91.0	0.1545 ug/L	0.1545 ppb	07:44:49
3	Tl 190.801†	-30.9	-1.5	-0.5993 ug/L	-0.5993 ppb	07:45:09
3	U 409.014†	-1868.2	94.3	2.7883 ug/L	2.7883 ppb	07:44:49
3	V 292.402†	-1282.1	81.9	0.6686 ug/L	0.6686 ppb	07:44:49
3	Zn 213.857†	652.4	41.4	0.5068 ug/L	0.5068 ppb	07:45:09
3	SiO2†	567.6	25.4	2.0421 ug/L	2.0421 ppb	07:46:10

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	849871.0	100.54 %	0.514			0.51%
Sc Radial	4581.9	101 %	0.7			0.67%
Y 371.029	717652.0	100.66 %	0.592			0.59%
Y RADIAL	4928.3	100.2 %	0.45			0.45%
Ag 328.068†	3.2	0.0258 ug/L	0.07755	0.0258 ppb	0.07755	300.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.3	-0.3615 ug/L	5.36724	-0.3615 ppb	5.36724	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.6320 ug/L	1.79653	-0.6320 ppb	1.79653	284.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	409.4	11.568 ug/L	0.4956	11.568 ppb	0.4956	4.28%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.6	0.0460 ug/L	0.04231	0.0460 ppb	0.04231	91.97%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	114.8	0.0491 ug/L	0.00626	0.0491 ppb	0.00626	12.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.7	5.0184 ug/L	3.82175	5.0184 ppb	3.82175	76.15%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-1.2	-0.0199 ug/L	0.15423	-0.0199 ppb	0.15423	773.55%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	7.0	0.1862 ug/L	0.22476	0.1862 ppb	0.22476	120.74%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-4.5	-0.0585 ug/L	0.14579	-0.0585 ppb	0.14579	249.32%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	10.1	0.0336 ug/L	0.19123	0.0336 ppb	0.19123	569.96%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.6	29.289 ug/L	20.9770	29.289 ppb	20.9770	71.62%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-110.5	-21.021 ug/L	1.8591	-21.021 ppb	1.8591	8.84%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.3	52.670 ug/L	94.9533	52.670 ppb	94.9533	180.28%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	104.7	0.1399 ug/L	0.06546	0.1399 ppb	0.06546	46.77%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.6	0.5019 ug/L	0.57199	0.5019 ppb	0.57199	113.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-25.9	-9.0422 ug/L	6.50042	-9.0422 ppb	6.50042	71.89%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.5	0.3070 ug/L	0.28075	0.3070 ppb	0.28075	91.45%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-11.0	-8.3535 ug/L	5.38609	-8.3535 ppb	5.38609	64.48%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	4.3	0.6701 ug/L	0.98735	0.6701 ppb	0.98735	147.35%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.1	-3.8370 ug/L	10.39536	-3.8370 ppb	10.39536	270.92%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	4.8	2.0967 ug/L	1.66769	2.0967 ppb	1.66769	79.54%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.8	3.2437 ug/L	5.45919	3.2437 ppb	5.45919	168.30%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	36.7	1.3942 ug/L	0.33686	1.3942 ppb	0.33686	24.16%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.8	1.5758 ug/L	0.65227	1.5758 ppb	0.65227	41.39%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	12.6	0.0990 ug/L	0.10670	0.0990 ppb	0.10670	107.74%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	19.5	0.0290 ug/L	0.14483	0.0290 ppb	0.14483	498.65%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-4.2	-1.6749 ug/L	1.54442	-1.6749 ppb	1.54442	92.21%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	91.6	2.7069 ug/L	3.75967	2.7069 ppb	3.75967	138.89%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	75.0	0.6101 ug/L	0.20568	0.6101 ppb	0.20568	33.71%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	36.0	0.4375 ug/L	0.15809	0.4375 ppb	0.15809	36.13%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	35.4	2.8572 ug/L	0.72148	2.8572 ppb	0.72148	25.25%
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: 3/22/2010 07:48:21

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	4647.0	4647.0	102 %		07:50:15
1	Y RADIAL	5007.9	5007.9	101.9 %		07:50:15
1	Al 396.153Radial†	133.8	204.2	201.56 ug/L	201.56 ppb	07:50:35
1	Ca 317.933Radial†	129.9	108.8	205.40 ug/L	205.40 ppb	07:50:35
1	Fe 238.204 Radial†	17.7	10.7	122.90 ug/L	122.90 ppb	07:50:35
1	K 766.490 Radial†	3224.0	647.6	123.03 ug/L	123.03 ppb	07:50:15
1	Mg 279.077 IEC†	9.6	9.0	374.20 ug/L	374.20 ppb	07:50:35
1	Na 589.592 Radial†	101.2	816.8	285.21 ug/L	285.21 ppb	07:50:15
1	Sr 421.552†	657.3	606.4	4.7494 ug/L	4.7494 ppb	07:50:15
1	Sc 361.383	854408.6	854408.6	101.08 %		07:51:31
1	Y 371.029	721763.1	721763.1	101.24 %		07:51:31
1	Ag 328.068†	1079.2	911.1	4.7063 ug/L	4.7063 ppb	07:51:31
1	As 188.979†	22.3	44.2	24.948 ug/L	24.948 ppb	07:51:51
1	B 249.677†	1613.6	2043.8	57.739 ug/L	57.739 ppb	07:51:31
1	Ba 233.527†	566.0	548.0	5.2247 ug/L	5.2247 ppb	07:51:51
1	Be 313.107†	7305.5	11685.0	5.0001 ug/L	5.0001 ppb	07:51:31
1	Cd 226.502†	189.4	335.9	4.9365 ug/L	4.9365 ppb	07:51:51
1	Co 228.616†	152.2	204.2	5.3868 ug/L	5.3868 ppb	07:51:51
1	Cr 267.716†	435.2	360.3	4.8975 ug/L	4.8975 ppb	07:51:51
1	Cu 324.752†	8654.8	3036.5	10.035 ug/L	10.035 ppb	07:51:31
1	Mn 257.610†	8280.5	7806.0	10.377 ug/L	10.377 ppb	07:51:31
1	Mo 202.031†	125.0	110.8	9.9831 ug/L	9.9831 ppb	07:51:51
1	Ni 231.604†	247.5	172.3	5.5626 ug/L	5.5626 ppb	07:51:51
1	P 214.914†	392.9	188.1	140.60 ug/L	140.60 ppb	07:51:51
1	Pb 220.353†	9.3	58.1	9.1332 ug/L	9.1332 ppb	07:51:51
1	S 181.975 Axial†	88.0	57.2	103.62 ug/L	103.62 ppb	07:51:51
1	Sb 206.836†	49.3	23.3	10.322 ug/L	10.322 ppb	07:51:51
1	Se 196.026†	22.9	44.8	37.776 ug/L	37.776 ppb	07:51:51
1	Si 251.611†	3106.9	2555.0	97.453 ug/L	97.453 ppb	07:51:51
1	Sn 189.927†	55.9	51.6	11.928 ug/L	11.928 ppb	07:51:51
1	Ti 334.940†	1930.5	2955.5	5.1114 ug/L	5.1114 ppb	07:51:31
1	Tl 190.801†	22.0	50.8	20.118 ug/L	20.118 ppb	07:51:51
1	U 409.014†	-25.8	1917.7	56.714 ug/L	56.714 ppb	07:51:31
1	V 292.402†	-686.2	671.8	5.6130 ug/L	5.6130 ppb	07:51:31
1	Zn 213.857†	1532.6	912.0	11.172 ug/L	11.172 ppb	07:51:51
1	SiO2†	3215.4	2644.8	214.45 ug/L	214.45 ppb	07:52:48
2	Sc Radial	4614.4	4614.4	101 %		07:50:40
2	Y RADIAL	4976.1	4976.1	101.2 %		07:50:40
2	Al 396.153Radial†	133.8	205.1	202.50 ug/L	202.50 ppb	07:51:00
2	Ca 317.933Radial†	128.2	108.1	203.94 ug/L	203.94 ppb	07:51:00
2	Fe 238.204 Radial†	18.2	11.3	130.28 ug/L	130.28 ppb	07:51:00
2	K 766.490 Radial†	3154.0	600.9	114.13 ug/L	114.13 ppb	07:50:40
2	Mg 279.077 IEC†	8.1	7.6	313.88 ug/L	313.88 ppb	07:51:00
2	Na 589.592 Radial†	176.8	892.1	311.50 ug/L	311.50 ppb	07:50:40
2	Sr 421.552†	641.0	594.9	4.6597 ug/L	4.6597 ppb	07:50:40
2	Sc 361.383	859116.4	859116.4	101.63 %		07:51:57
2	Y 371.029	725809.8	725809.8	101.80 %		07:51:57
2	Ag 328.068†	1202.8	1026.7	5.3060 ug/L	5.3060 ppb	07:51:57
2	As 188.979†	25.0	46.7	26.382 ug/L	26.382 ppb	07:52:17
2	B 249.677†	1560.1	1982.4	56.003 ug/L	56.003 ppb	07:51:57
2	Ba 233.527†	558.9	537.9	5.1305 ug/L	5.1305 ppb	07:52:17
2	Be 313.107†	7455.8	11793.3	5.0460 ug/L	5.0460 ppb	07:51:57
2	Cd 226.502†	187.3	332.7	4.8901 ug/L	4.8901 ppb	07:52:17
2	Co 228.616†	142.1	193.4	5.1025 ug/L	5.1025 ppb	07:52:17
2	Cr 267.716†	459.6	382.1	5.1937 ug/L	5.1937 ppb	07:52:17
2	Cu 324.752†	8787.9	3120.6	10.313 ug/L	10.313 ppb	07:51:57
2	Mn 257.610†	8334.3	7814.0	10.391 ug/L	10.391 ppb	07:51:57
2	Mo 202.031†	119.3	104.5	9.4156 ug/L	9.4156 ppb	07:52:17
2	Ni 231.604†	256.0	179.2	5.7876 ug/L	5.7876 ppb	07:52:17

2	P 214.914†	381.2	174.4	130.20 ug/L	130.20 ppb	07:52:17
2	Pb 220.353†	26.1	74.6	11.719 ug/L	11.719 ppb	07:52:17
2	S 181.975 Axial†	89.5	58.2	105.35 ug/L	105.35 ppb	07:52:17
2	Sb 206.836†	55.1	28.8	12.615 ug/L	12.615 ppb	07:52:17
2	Se 196.026†	21.7	43.6	36.751 ug/L	36.751 ppb	07:52:17
2	Si 251.611†	3103.9	2535.1	96.702 ug/L	96.702 ppb	07:52:17
2	Sn 189.927†	48.0	43.5	10.051 ug/L	10.051 ppb	07:52:17
2	Ti 334.940†	1845.0	2860.9	4.9508 ug/L	4.9508 ppb	07:51:57
2	Tl 190.801†	17.9	46.7	18.478 ug/L	18.478 ppb	07:52:17
2	U 409.014†	25.5	1968.2	58.209 ug/L	58.209 ppb	07:51:57
2	V 292.402†	-618.0	742.6	6.1728 ug/L	6.1728 ppb	07:51:57
2	Zn 213.857†	1538.5	909.5	11.139 ug/L	11.139 ppb	07:52:17
2	SiO2†	3203.2	2615.4	212.07 ug/L	212.07 ppb	07:52:53
3	Sc Radial	4490.2	4490.2	98.6 %		07:51:05
3	Y RADIAL	4879.3	4879.3	99.24 %		07:51:05
3	Al 396.153Radial†	131.3	206.2	203.57 ug/L	203.57 ppb	07:51:25
3	Ca 317.933Radial†	131.0	114.5	215.99 ug/L	215.99 ppb	07:51:25
3	Fe 238.204 Radial†	16.5	10.1	116.15 ug/L	116.15 ppb	07:51:25
3	K 766.490 Radial†	3228.7	762.7	144.92 ug/L	144.92 ppb	07:51:05
3	Mg 279.077 IEC†	11.9	11.6	482.22 ug/L	482.22 ppb	07:51:25
3	Na 589.592 Radial†	134.6	854.3	298.28 ug/L	298.28 ppb	07:51:05
3	Sr 421.552†	637.5	608.8	4.7685 ug/L	4.7685 ppb	07:51:05
3	Sc 361.383	853009.6	853009.6	100.91 %		07:52:22
3	Y 371.029	719565.2	719565.2	100.93 %		07:52:22
3	Ag 328.068†	1183.9	1016.5	5.2481 ug/L	5.2481 ppb	07:52:22
3	As 188.979†	32.3	54.1	30.554 ug/L	30.554 ppb	07:52:42
3	B 249.677†	1547.6	1981.1	55.966 ug/L	55.966 ppb	07:52:22
3	Ba 233.527†	565.3	548.2	5.2270 ug/L	5.2270 ppb	07:52:42
3	Be 313.107†	7466.1	11856.0	5.0729 ug/L	5.0729 ppb	07:52:22
3	Cd 226.502†	205.1	351.7	5.1699 ug/L	5.1699 ppb	07:52:42
3	Co 228.616†	160.6	212.8	5.6130 ug/L	5.6130 ppb	07:52:42
3	Cr 267.716†	446.7	372.5	5.0626 ug/L	5.0626 ppb	07:52:42
3	Cu 324.752†	8661.0	3056.8	10.101 ug/L	10.101 ppb	07:52:22
3	Mn 257.610†	8329.0	7867.5	10.454 ug/L	10.454 ppb	07:52:22
3	Mo 202.031†	121.9	107.9	9.7210 ug/L	9.7210 ppb	07:52:42
3	Ni 231.604†	262.1	187.2	6.0433 ug/L	6.0433 ppb	07:52:42
3	P 214.914†	402.1	197.8	147.99 ug/L	147.99 ppb	07:52:42
3	Pb 220.353†	20.2	68.9	10.833 ug/L	10.833 ppb	07:52:42
3	S 181.975 Axial†	87.6	56.9	103.15 ug/L	103.15 ppb	07:52:42
3	Sb 206.836†	50.9	25.0	11.034 ug/L	11.034 ppb	07:52:42
3	Se 196.026†	18.0	40.0	33.736 ug/L	33.736 ppb	07:52:42
3	Si 251.611†	3119.3	2572.3	98.117 ug/L	98.117 ppb	07:52:42
3	Sn 189.927†	53.3	49.1	11.353 ug/L	11.353 ppb	07:52:42
3	Ti 334.940†	1864.0	2892.7	4.9944 ug/L	4.9944 ppb	07:52:22
3	Tl 190.801†	24.0	52.9	20.934 ug/L	20.934 ppb	07:52:42
3	U 409.014†	-8.0	1935.3	57.236 ug/L	57.236 ppb	07:52:22
3	V 292.402†	-656.8	699.8	5.8376 ug/L	5.8376 ppb	07:52:22
3	Zn 213.857†	1555.9	937.6	11.486 ug/L	11.486 ppb	07:52:42
3	SiO2†	3257.0	2691.2	218.22 ug/L	218.22 ppb	07:52:58

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	855511.5	101.21 %		0.378			0.37%
Sc Radial	4583.9	101 %		1.8			1.81%
Y 371.029	722379.4	101.32 %		0.444			0.44%
Y RADIAL	4954.5	100.8 %		1.36			1.35%
Ag 328.068†	984.8	5.0868 ug/L		0.33077	5.0868 ppb	0.33077	6.50%
QC value within limits for Ag 328.068 Recovery = 101.74%							
Al 396.153Radial†	205.2	202.54 ug/L		1.008	202.54 ppb	1.008	0.50%
QC value within limits for Al 396.153Radial Recovery = 101.27%							
As 188.979†	48.3	27.295 ug/L		2.9125	27.295 ppb	2.9125	10.67%
QC value within limits for As 188.979 Recovery = 90.98%							
B 249.677†	2002.5	56.570 ug/L		1.0130	56.570 ppb	1.0130	1.79%
QC value within limits for B 249.677 Recovery = 113.14%							
Ba 233.527†	544.7	5.1941 ug/L		0.05504	5.1941 ppb	0.05504	1.06%
QC value within limits for Ba 233.527 Recovery = 103.88%							
Be 313.107†	11778.1	5.0396 ug/L		0.03680	5.0396 ppb	0.03680	0.73%
QC value within limits for Be 313.107 Recovery = 100.79%							
Ca 317.933Radial†	110.5	208.44 ug/L		6.576	208.44 ppb	6.576	3.15%

QC value within limits for Ca 317.933 Radial Recovery = 104.22%							
Cd 226.502†	340.1	4.9989 ug/L	0.14995	4.9989 ppb	0.14995	3.00%	
QC value within limits for Cd 226.502 Recovery = 99.98%							
Co 228.616†	203.5	5.3675 ug/L	0.25582	5.3675 ppb	0.25582	4.77%	
QC value within limits for Co 228.616 Recovery = 107.35%							
Cr 267.716†	371.6	5.0513 ug/L	0.14844	5.0513 ppb	0.14844	2.94%	
QC value within limits for Cr 267.716 Recovery = 101.03%							
Cu 324.752†	3071.3	10.150 ug/L	0.1452	10.150 ppb	0.1452	1.43%	
QC value within limits for Cu 324.752 Recovery = 101.50%							
Fe 238.204 Radial†	10.7	123.11 ug/L	7.069	123.11 ppb	7.069	5.74%	
QC value within limits for Fe 238.204 Radial Recovery = 123.11%							
K 766.490 Radial†	670.4	127.36 ug/L	15.846	127.36 ppb	15.846	12.44%	
QC value within limits for K 766.490 Radial Recovery = 84.91%							
Mg 279.077 IEC†	9.4	390.10 ug/L	85.287	390.10 ppb	85.287	21.86%	
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 130.03%							
Mn 257.610†	7829.2	10.407 ug/L	0.0409	10.407 ppb	0.0409	0.39%	
QC value within limits for Mn 257.610 Recovery = 104.07%							
Mo 202.031†	107.7	9.7066 ug/L	0.28399	9.7066 ppb	0.28399	2.93%	
QC value within limits for Mo 202.031 Recovery = 97.07%							
Na 589.592 Radial†	854.4	298.33 ug/L	13.145	298.33 ppb	13.145	4.41%	
QC value within limits for Na 589.592 Radial Recovery = 99.44%							
Ni 231.604†	179.5	5.7979 ug/L	0.24055	5.7979 ppb	0.24055	4.15%	
QC value within limits for Ni 231.604 Recovery = 115.96%							
P 214.914†	186.8	139.60 ug/L	8.937	139.60 ppb	8.937	6.40%	
QC value within limits for P 214.914 Recovery = 93.07%							
Pb 220.353†	67.2	10.562 ug/L	1.3139	10.562 ppb	1.3139	12.44%	
QC value within limits for Pb 220.353 Recovery = 105.62%							
S 181.975 Axial†	57.4	104.04 ug/L	1.161	104.04 ppb	1.161	1.12%	
QC value within limits for S 181.975 Axial Recovery = 104.04%							
Sb 206.836†	25.7	11.324 ug/L	1.1736	11.324 ppb	1.1736	10.36%	
QC value within limits for Sb 206.836 Recovery = 113.24%							
Se 196.026†	42.8	36.088 ug/L	2.0999	36.088 ppb	2.0999	5.82%	
QC value within limits for Se 196.026 Recovery = 120.29%							
Si 251.611†	2554.1	97.424 ug/L	0.7079	97.424 ppb	0.7079	0.73%	
QC value within limits for Si 251.611 Recovery = 97.42%							
Sn 189.927†	48.1	11.110 ug/L	0.9616	11.110 ppb	0.9616	8.66%	
QC value within limits for Sn 189.927 Recovery = 111.10%							
Sr 421.552†	603.4	4.7259 ug/L	0.05812	4.7259 ppb	0.05812	1.23%	
QC value within limits for Sr 421.552 Recovery = 94.52%							
Ti 334.940†	2903.0	5.0188 ug/L	0.08304	5.0188 ppb	0.08304	1.65%	
QC value within limits for Ti 334.940 Recovery = 100.38%							
Tl 190.801†	50.1	19.843 ug/L	1.2507	19.843 ppb	1.2507	6.30%	
QC value within limits for Tl 190.801 Recovery = 99.22%							
U 409.014†	1940.4	57.386 ug/L	0.7586	57.386 ppb	0.7586	1.32%	
QC value within limits for U 409.014 Recovery = 114.77%							
V 292.402†	704.8	5.8745 ug/L	0.28171	5.8745 ppb	0.28171	4.80%	
QC value within limits for V 292.402 Recovery = 117.49%							
Zn 213.857†	919.7	11.265 ug/L	0.1915	11.265 ppb	0.1915	1.70%	
QC value within limits for Zn 213.857 Recovery = 112.65%							
SiO2†	2650.5	214.92 ug/L	3.101	214.92 ppb	3.101	1.44%	
QC value within limits for SiO2 Recovery = 100.90%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: ICSCA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/22/2010 07:55:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSCA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4162.6	4162.6	91.4 %		07:57:22
1	Y RADIAL	4458.5	4458.5	90.68 %		07:57:22
1	Al 396.153Radial†	470749.0	514860.4	509390 ug/L	509390 ppb	07:57:02
1	Ca 317.933Radial†	228889.3	250283.3	472280 ug/L	472280 ppb	07:57:02
1	Fe 238.204 Radial†	14759.0	16133.0	185170 ug/L	185170 ppb	07:57:22
1	K 766.490 Radial†	2154.4	-154.5	-187.37 ug/L	-187.37 ppb	07:57:02
1	Mg 279.077 IEC†	10734.3	11738.0	487140 ug/L	487140 ppb	07:57:22
1	Na 589.592 Radial†	-641.3	16.4	5.7372 ug/L	5.7372 ppb	07:57:22
1	Sr 421.552†	462.6	468.4	0.1435 ug/L	0.1435 ppb	07:57:22
1	Sc 361.383	744053.2	744053.2	88.022 %		07:58:20
1	Y 371.029	613797.8	613797.8	86.093 %		07:58:20
1	Ag 328.068†	-8719.5	-10062.8	-0.9918 ug/L	-0.9918 ppb	07:58:20
1	As 188.979†	-63.1	-49.7	15.239 ug/L	15.239 ppb	07:58:40
1	B 249.677†	491.6	1005.9	-1.6400 ug/L	-1.6400 ppb	07:58:20
1	Ba 233.527†	-471.2	-547.3	0.4667 ug/L	0.4667 ppb	07:58:40
1	Be 313.107†	-4691.6	-872.7	-0.4250 ug/L	-0.4250 ppb	07:58:20
1	Cd 226.502†	1068.6	1362.5	0.9016 ug/L	0.9016 ppb	07:58:40
1	Co 228.616†	9.2	64.1	-0.9782 ug/L	-0.9782 ppb	07:58:40
1	Cr 267.716†	-1249.5	-1489.7	-0.6312 ug/L	-0.6312 ppb	07:58:40
1	Cu 324.752†	3042.8	-2069.1	2.9221 ug/L	2.9221 ppb	07:58:40
1	Mn 257.610†	78.3	-297.3	-2.0322 ug/L	-2.0322 ppb	07:58:20
1	Mo 202.031†	-180.1	-217.6	0.4163 ug/L	0.4163 ppb	07:58:40
1	Ni 231.604†	160.2	109.4	3.5326 ug/L	3.5326 ppb	07:58:40
1	P 214.914†	173.2	-3.9	-24.548 ug/L	-24.548 ppb	07:58:40
1	Pb 220.353†	-597.6	-630.0	-5.6374 ug/L	-5.6374 ppb	07:58:40
1	S 181.975 Axial†	26.4	0.1	-95.362 ug/L	-95.362 ppb	07:58:40
1	Sb 206.836†	60.0	42.7	0.7839 ug/L	0.7839 ppb	07:58:40
1	Se 196.026†	-706.2	-780.2	44.708 ug/L	44.708 ppb	07:58:40
1	Si 251.611†	463.2	7.4	0.5232 ug/L	0.5232 ppb	07:58:40
1	Sn 189.927†	-323.0	-370.7	-12.164 ug/L	-12.164 ppb	07:58:40
1	Ti 334.940†	-12603.6	-13273.2	0.4406 ug/L	0.4406 ppb	07:58:20
1	Tl 190.801†	-82.6	-64.7	-25.776 ug/L	-25.776 ppb	07:58:40
1	U 409.014†	-407.6	1480.1	22.727 ug/L	22.727 ppb	07:58:20
1	V 292.402†	593.4	2024.9	-1.4987 ug/L	-1.4987 ppb	07:58:40
1	Zn 213.857†	2557.8	2301.6	0.6416 ug/L	0.6416 ppb	07:58:40
1	SiO2†	534.5	70.8	6.2845 ug/L	6.2845 ppb	07:59:36
2	Sc Radial	4127.6	4127.6	90.7 %		07:57:48
2	Y RADIAL	4431.9	4431.9	90.13 %		07:57:48
2	Al 396.153Radial†	465468.1	513401.8	507950 ug/L	507950 ppb	07:57:28
2	Ca 317.933Radial†	226486.8	249756.3	471290 ug/L	471290 ppb	07:57:28
2	Fe 238.204 Radial†	14694.0	16198.2	185920 ug/L	185920 ppb	07:57:48
2	K 766.490 Radial†	2129.0	-162.5	-188.56 ug/L	-188.56 ppb	07:57:28
2	Mg 279.077 IEC†	10681.5	11779.4	488850 ug/L	488850 ppb	07:57:48
2	Na 589.592 Radial†	-605.4	50.2	17.515 ug/L	17.515 ppb	07:57:48
2	Sr 421.552†	473.3	484.6	0.2774 ug/L	0.2774 ppb	07:57:48
2	Sc 361.383	744334.2	744334.2	88.055 %		07:58:45
2	Y 371.029	613994.5	613994.5	86.121 %		07:58:45
2	Ag 328.068†	-8603.2	-9926.9	-0.0437 ug/L	-0.0437 ppb	07:58:45
2	As 188.979†	-56.2	-41.7	19.897 ug/L	19.897 ppb	07:59:05
2	B 249.677†	494.2	1008.7	-1.6826 ug/L	-1.6826 ppb	07:58:45
2	Ba 233.527†	-475.8	-552.3	0.4424 ug/L	0.4424 ppb	07:59:05
2	Be 313.107†	-4591.7	-757.3	-0.3773 ug/L	-0.3773 ppb	07:58:45
2	Cd 226.502†	1070.9	1364.6	0.8553 ug/L	0.8553 ppb	07:59:05
2	Co 228.616†	1.7	55.6	-1.2153 ug/L	-1.2153 ppb	07:59:05
2	Cr 267.716†	-1241.5	-1480.1	-0.4196 ug/L	-0.4196 ppb	07:59:05
2	Cu 324.752†	3126.8	-1975.0	3.2749 ug/L	3.2749 ppb	07:59:05
2	Mn 257.610†	121.2	-248.6	-1.9638 ug/L	-1.9638 ppb	07:58:45
2	Mo 202.031†	-196.2	-235.7	-1.1716 ug/L	-1.1716 ppb	07:59:05
2	Ni 231.604†	178.9	130.5	4.2168 ug/L	4.2168 ppb	07:59:05

2	P 214.914†	143.5	-37.7	-51.183 ug/L	-51.183 ppb	07:59:05
2	Pb 220.353†	-631.3	-668.1	-12.029 ug/L	-12.029 ppb	07:59:05
2	S 181.975 Axial†	36.6	11.6	-74.139 ug/L	-74.139 ppb	07:59:05
2	Sb 206.836†	59.0	41.6	0.3434 ug/L	0.3434 ppb	07:59:05
2	Se 196.026†	-707.5	-781.3	45.439 ug/L	45.439 ppb	07:59:05
2	Si 251.611†	479.0	25.1	1.2198 ug/L	1.2198 ppb	07:59:05
2	Sn 189.927†	-314.2	-360.5	-10.033 ug/L	-10.033 ppb	07:59:05
2	Ti 334.940†	-12954.9	-13666.7	-0.5166 ug/L	-0.5166 ppb	07:58:45
2	Tl 190.801†	-74.7	-55.8	-22.244 ug/L	-22.244 ppb	07:59:05
2	U 409.014†	-484.8	1392.6	20.055 ug/L	20.055 ppb	07:58:45
2	V 292.402†	622.2	2057.3	-1.3416 ug/L	-1.3416 ppb	07:59:05
2	Zn 213.857†	2591.7	2339.0	0.9857 ug/L	0.9857 ppb	07:59:05
2	SiO2†	437.1	-39.9	-2.6654 ug/L	-2.6654 ppb	07:59:41
3	Sc Radial	4140.8	4140.8	91.0 %		07:58:13
3	Y RADIAL	4422.8	4422.8	89.95 %		07:58:13
3	Al 396.153Radial†	460902.5	506750.6	501370 ug/L	501370 ppb	07:57:53
3	Ca 317.933Radial†	224967.0	247291.5	466640 ug/L	466640 ppb	07:57:53
3	Fe 238.204 Radial†	14614.7	16059.5	184330 ug/L	184330 ppb	07:58:13
3	K 766.490 Radial†	2270.2	-14.8	-158.89 ug/L	-158.89 ppb	07:57:53
3	Mg 279.077 IEC†	10630.2	11685.6	484960 ug/L	484960 ppb	07:58:13
3	Na 589.592 Radial†	-626.6	28.9	10.085 ug/L	10.085 ppb	07:58:13
3	Sr 421.552†	471.7	481.1	0.2851 ug/L	0.2851 ppb	07:58:13
3	Sc 361.383	738904.1	738904.1	87.413 %		07:59:10
3	Y 371.029	609891.2	609891.2	85.545 %		07:59:10
3	Ag 328.068†	-8644.4	-10045.9	-1.0828 ug/L	-1.0828 ppb	07:59:10
3	As 188.979†	-69.8	-57.8	10.478 ug/L	10.478 ppb	07:59:31
3	B 249.677†	478.8	995.2	-1.8066 ug/L	-1.8066 ppb	07:59:10
3	Ba 233.527†	-449.8	-526.5	0.6409 ug/L	0.6409 ppb	07:59:31
3	Be 313.107†	-4508.7	-700.7	-0.3512 ug/L	-0.3512 ppb	07:59:10
3	Cd 226.502†	1057.7	1358.5	0.9297 ug/L	0.9297 ppb	07:59:31
3	Co 228.616†	-2.4	50.8	-1.3159 ug/L	-1.3159 ppb	07:59:31
3	Cr 267.716†	-1270.5	-1523.7	-1.1799 ug/L	-1.1799 ppb	07:59:31
3	Cu 324.752†	3057.2	-2028.6	3.0130 ug/L	3.0130 ppb	07:59:31
3	Mn 257.610†	103.1	-268.3	-1.9879 ug/L	-1.9879 ppb	07:59:10
3	Mo 202.031†	-183.2	-222.5	-0.1586 ug/L	-0.1586 ppb	07:59:31
3	Ni 231.604†	162.3	113.1	3.6527 ug/L	3.6527 ppb	07:59:31
3	P 214.914†	124.8	-57.9	-66.803 ug/L	-66.803 ppb	07:59:31
3	Pb 220.353†	-609.8	-648.7	-10.297 ug/L	-10.297 ppb	07:59:31
3	S 181.975 Axial†	46.9	23.8	-50.911 ug/L	-50.911 ppb	07:59:31
3	Sb 206.836†	43.1	23.9	-7.0249 ug/L	-7.0249 ppb	07:59:31
3	Se 196.026†	-712.7	-793.2	28.860 ug/L	28.860 ppb	07:59:31
3	Si 251.611†	460.1	7.5	0.5327 ug/L	0.5327 ppb	07:59:31
3	Sn 189.927†	-323.0	-373.2	-13.698 ug/L	-13.698 ppb	07:59:31
3	Ti 334.940†	-12449.4	-13196.5	-0.0043 ug/L	-0.0043 ppb	07:59:10
3	Tl 190.801†	-86.6	-69.9	-27.824 ug/L	-27.824 ppb	07:59:31
3	U 409.014†	-474.7	1400.1	20.459 ug/L	20.459 ppb	07:59:10
3	V 292.402†	701.3	2152.9	-0.4027 ug/L	-0.4027 ppb	07:59:31
3	Zn 213.857†	2559.7	2323.9	1.0421 ug/L	1.0421 ppb	07:59:31
3	SiO2†	410.7	-66.5	-4.8502 ug/L	-4.8502 ppb	07:59:46

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	742430.5	87.830 %	0.3617			0.41%
Sc Radial	4143.6	91.0 %	0.39			0.43%
Y 371.029	612561.2	85.920 %	0.3246			0.38%
Y RADIAL	4437.7	90.25 %	0.378			0.42%
Ag 328.068†	-10011.8	-0.7061 ug/L	0.57543	-0.7061 ppb	0.57543	81.50%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	511670.9	506240 ug/L	4277.2	506240 ppb	4277.2	0.84%
QC value within limits for Al 396.153Radial Recovery = 101.25%						
As 188.979†	-49.7	15.205 ug/L	4.7097	15.205 ppb	4.7097	30.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1003.3	-1.7097 ug/L	0.08655	-1.7097 ppb	0.08655	5.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-542.1	0.5167 ug/L	0.10827	0.5167 ppb	0.10827	20.96%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-776.9	-0.3845 ug/L	0.03741	-0.3845 ppb	0.03741	9.73%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	249110.4	470070 ug/L	3013.8	470070 ppb	3013.8	0.64%

QC value within limits for Ca 317.933 Radial Recovery = 94.01%							
Cd 226.502†	1361.9	0.8955 ug/L	0.03756	0.8955 ppb	0.03756	4.19%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	56.8	-1.1698 ug/L	0.17341	-1.1698 ppb	0.17341	14.82%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1497.8	-0.7436 ug/L	0.39245	-0.7436 ppb	0.39245	52.78%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-2024.2	3.0700 ug/L	0.18316	3.0700 ppb	0.18316	5.97%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	16130.3	185140 ug/L	796.4	185140 ppb	796.4	0.43%	
QC value within limits for Fe 238.204 Radial Recovery = 92.57%							
K 766.490 Radial†	-110.6	-178.27 ug/L	16.796	-178.27 ppb	16.796	9.42%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	11734.4	486980 ug/L	1951.8	486980 ppb	1951.8	0.40%	
QC value within limits for Mg 279.077 IEC Recovery = 97.40%							
Mn 257.610†	-271.4	-1.9946 ug/L	0.03471	-1.9946 ppb	0.03471	1.74%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-225.2	-0.3046 ug/L	0.80395	-0.3046 ppb	0.80395	263.89%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	31.8	11.113 ug/L	5.9560	11.113 ppb	5.9560	53.60%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	117.7	3.8007 ug/L	0.36534	3.8007 ppb	0.36534	9.61%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-33.2	-47.511 ug/L	21.3653	-47.511 ppb	21.3653	44.97%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-649.0	-9.3212 ug/L	3.30571	-9.3212 ppb	3.30571	35.46%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	11.8	-73.471 ug/L	22.2328	-73.471 ppb	22.2328	30.26%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	36.0	-1.9659 ug/L	4.38677	-1.9659 ppb	4.38677	223.15%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-784.9	39.669 ug/L	9.3682	39.669 ppb	9.3682	23.62%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	13.3	0.7586 ug/L	0.39942	0.7586 ppb	0.39942	52.65%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-368.2	-11.965 ug/L	1.8404	-11.965 ppb	1.8404	15.38%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	478.0	0.2353 ug/L	0.07960	0.2353 ppb	0.07960	33.83%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-13378.8	-0.0268 ug/L	0.47898	-0.0268 ppb	0.47898	>999.9%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-63.5	-25.281 ug/L	2.8231	-25.281 ppb	2.8231	11.17%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	1424.3	21.081 ug/L	1.4405	21.081 ppb	1.4405	6.83%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	2078.4	-1.0810 ug/L	0.59264	-1.0810 ppb	0.59264	54.82%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	2321.5	0.8898 ug/L	0.21681	0.8898 ppb	0.21681	24.37%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-11.9	-0.4104 ug/L	5.89997	-0.4104 ppb	5.89997	>999.9%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/22/2010 08:01:58
 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	4095.5	4095.5	90.0 %		08:04:10
1	Y RADIAL	4399.6	4399.6	89.48 %		08:04:10
1	Al 396.153Radial†	478690.4	532113.3	526440 ug/L	526440 ppb	08:03:50
1	Ca 317.933Radial†	232462.9	258352.3	487510 ug/L	487510 ppb	08:03:50
1	Fe 238.204 Radial†	14747.2	16384.1	188070 ug/L	188070 ppb	08:04:10
1	K 766.490 Radial†	28793.3	29491.8	5445.4 ug/L	5445.4 ppb	08:03:50
1	Mg 279.077 IEC†	10694.1	11885.5	493260 ug/L	493260 ppb	08:04:10
1	Na 589.592 Radial†	14053.1	16337.1	5704.4 ug/L	5704.4 ppb	08:03:50
1	Sr 421.552†	60562.3	67274.5	523.45 ug/L	523.45 ppb	08:03:50
1	Sc 361.383	748853.0	748853.0	88.590 %		08:05:08
1	Y 371.029	617027.2	617027.2	86.546 %		08:05:08
1	Ag 328.068†	38471.5	43270.0	276.23 ug/L	276.23 ppb	08:05:08
1	As 188.979†	711.6	825.3	512.23 ug/L	512.23 ppb	08:05:29
1	B 249.677†	16946.0	19576.1	521.57 ug/L	521.57 ppb	08:05:08
1	Ba 233.527†	45242.4	51057.7	492.23 ug/L	492.23 ppb	08:05:08
1	Be 313.107†	505600.1	575179.0	246.65 ug/L	246.65 ppb	08:05:08
1	Cd 226.502†	28684.6	32527.7	458.85 ug/L	458.85 ppb	08:05:29
1	Co 228.616†	14902.5	16875.6	441.66 ug/L	441.66 ppb	08:05:29
1	Cr 267.716†	30454.0	34306.3	486.90 ug/L	486.90 ppb	08:05:08
1	Cu 324.752†	151524.0	165514.3	558.00 ug/L	558.00 ppb	08:05:08
1	Mn 257.610†	318727.3	359393.2	476.30 ug/L	476.30 ppb	08:05:08
1	Mo 202.031†	4574.9	5151.3	483.95 ug/L	483.95 ppb	08:05:29
1	Ni 231.604†	12389.5	13912.6	449.24 ug/L	449.24 ppb	08:05:29
1	P 214.914†	3058.7	3252.0	2339.5 ug/L	2339.5 ppb	08:05:29
1	Pb 220.353†	1998.8	2305.1	457.98 ug/L	457.98 ppb	08:05:29
1	S 181.975 Axial†	1302.8	1440.6	2511.8 ug/L	2511.8 ppb	08:05:29
1	Sb 206.836†	1164.6	1289.2	549.00 ug/L	549.00 ppb	08:05:29
1	Se 196.026†	1901.1	2168.1	2515.7 ug/L	2515.7 ppb	08:05:29
1	Si 251.611†	122062.6	137265.5	5236.5 ug/L	5236.5 ppb	08:05:08
1	Sn 189.927†	1567.9	1766.1	482.84 ug/L	482.84 ppb	08:05:29
1	Ti 334.940†	246917.0	279765.6	511.33 ug/L	511.33 ppb	08:05:08
1	Tl 190.801†	929.6	1078.4	428.98 ug/L	428.98 ppb	08:05:29
1	U 409.014†	14366.0	18159.6	514.81 ug/L	514.81 ppb	08:05:08
1	V 292.402†	56710.7	65365.7	512.62 ug/L	512.62 ppb	08:05:08
1	Zn 213.857†	38311.1	42641.3	493.78 ug/L	493.78 ppb	08:05:08
1	SiO2†	120509.9	135495.3	10988 ug/L	10988 ppb	08:06:26
2	Sc Radial	4115.2	4115.2	90.4 %		08:04:36
2	Y RADIAL	4416.9	4416.9	89.83 %		08:04:36
2	Al 396.153Radial†	468505.0	518306.7	512780 ug/L	512780 ppb	08:04:16
2	Ca 317.933Radial†	227675.1	251822.8	475190 ug/L	475190 ppb	08:04:16
2	Fe 238.204 Radial†	14854.6	16424.7	188530 ug/L	188530 ppb	08:04:36
2	K 766.490 Radial†	28322.1	28817.9	5321.4 ug/L	5321.4 ppb	08:04:16
2	Mg 279.077 IEC†	10778.8	11922.5	494800 ug/L	494800 ppb	08:04:36
2	Na 589.592 Radial†	13729.1	15904.1	5553.2 ug/L	5553.2 ppb	08:04:16
2	Sr 421.552†	59019.8	65246.9	507.65 ug/L	507.65 ppb	08:04:16
2	Sc 361.383	750801.9	750801.9	88.820 %		08:05:34
2	Y 371.029	619138.5	619138.5	86.842 %		08:05:34
2	Ag 328.068†	38446.4	43129.0	275.80 ug/L	275.80 ppb	08:05:34
2	As 188.979†	743.9	859.6	531.64 ug/L	531.64 ppb	08:05:55
2	B 249.677†	16817.6	19381.8	515.99 ug/L	515.99 ppb	08:05:34
2	Ba 233.527†	45300.6	50990.7	491.60 ug/L	491.60 ppb	08:05:34
2	Be 313.107†	506410.2	574609.6	246.41 ug/L	246.41 ppb	08:05:34
2	Cd 226.502†	28915.6	32703.7	461.39 ug/L	461.39 ppb	08:05:55
2	Co 228.616†	15044.4	16991.7	444.71 ug/L	444.71 ppb	08:05:55
2	Cr 267.716†	30362.7	34114.2	484.34 ug/L	484.34 ppb	08:05:34
2	Cu 324.752†	151200.5	164706.2	555.34 ug/L	555.34 ppb	08:05:34
2	Mn 257.610†	318829.8	358574.8	475.20 ug/L	475.20 ppb	08:05:34
2	Mo 202.031†	4614.1	5182.0	486.61 ug/L	486.61 ppb	08:05:55
2	Ni 231.604†	12496.4	13996.7	451.95 ug/L	451.95 ppb	08:05:55

2	P 214.914†	3077.5	3264.2	2345.4 ug/L	2345.4 ppb	08:05:55
2	Pb 220.353†	1991.4	2291.0	452.52 ug/L	452.52 ppb	08:05:55
2	S 181.975 Axial†	1325.7	1462.7	2554.2 ug/L	2554.2 ppb	08:05:55
2	Sb 206.836†	1157.5	1277.8	544.48 ug/L	544.48 ppb	08:05:55
2	Se 196.026†	1935.8	2201.7	2540.7 ug/L	2540.7 ppb	08:05:55
2	Si 251.611†	122090.0	136938.7	5224.0 ug/L	5224.0 ppb	08:05:34
2	Sn 189.927†	1550.8	1742.3	475.13 ug/L	475.13 ppb	08:05:55
2	Ti 334.940†	247482.0	279678.2	509.40 ug/L	509.40 ppb	08:05:34
2	Tl 190.801†	949.8	1098.5	436.87 ug/L	436.87 ppb	08:05:55
2	U 409.014†	14400.6	18156.4	514.67 ug/L	514.67 ppb	08:05:34
2	V 292.402†	56684.0	65169.5	511.05 ug/L	511.05 ppb	08:05:34
2	Zn 213.857†	38358.6	42582.6	492.97 ug/L	492.97 ppb	08:05:34
2	SiO2†	121728.7	136514.4	11070 ug/L	11070 ppb	08:06:31
3	Sc Radial	4116.4	4116.4	90.4 %		08:05:01
3	Y RADIAL	4412.0	4412.0	89.73 %		08:05:01
3	Al 396.153Radial†	481416.1	532434.2	526750 ug/L	526750 ppb	08:04:41
3	Ca 317.933Radial†	233610.7	258313.8	487440 ug/L	487440 ppb	08:04:41
3	Fe 238.204 Radial†	14752.4	16306.9	187180 ug/L	187180 ppb	08:05:01
3	K 766.490 Radial†	28996.7	29554.8	5457.4 ug/L	5457.4 ppb	08:04:41
3	Mg 279.077 IEC†	10700.4	11832.3	491060 ug/L	491060 ppb	08:05:01
3	Na 589.592 Radial†	14182.4	16400.9	5726.7 ug/L	5726.7 ppb	08:04:41
3	Sr 421.552†	60829.0	67228.7	523.09 ug/L	523.09 ppb	08:04:41
3	Sc 361.383	753182.4	753182.4	89.102 %		08:06:00
3	Y 371.029	619761.5	619761.5	86.930 %		08:06:00
3	Ag 328.068†	38478.0	43027.6	274.71 ug/L	274.71 ppb	08:06:00
3	As 188.979†	734.1	846.0	523.65 ug/L	523.65 ppb	08:06:21
3	B 249.677†	17020.9	19550.2	520.96 ug/L	520.96 ppb	08:06:00
3	Ba 233.527†	45591.5	51155.9	493.13 ug/L	493.13 ppb	08:06:00
3	Be 313.107†	508561.6	575222.2	246.67 ug/L	246.67 ppb	08:06:00
3	Cd 226.502†	29103.2	32811.4	463.11 ug/L	463.11 ppb	08:06:21
3	Co 228.616†	15144.0	17049.9	446.27 ug/L	446.27 ppb	08:06:21
3	Cr 267.716†	30577.6	34247.4	486.01 ug/L	486.01 ppb	08:06:00
3	Cu 324.752†	151828.0	164872.4	555.83 ug/L	555.83 ppb	08:06:00
3	Mn 257.610†	320908.7	359773.5	476.81 ug/L	476.81 ppb	08:06:00
3	Mo 202.031†	4644.2	5199.3	488.20 ug/L	488.20 ppb	08:06:21
3	Ni 231.604†	12588.8	14056.0	453.87 ug/L	453.87 ppb	08:06:21
3	P 214.914†	3107.9	3287.4	2367.5 ug/L	2367.5 ppb	08:06:21
3	Pb 220.353†	2005.8	2300.0	457.38 ug/L	457.38 ppb	08:06:21
3	S 181.975 Axial†	1340.4	1474.4	2572.9 ug/L	2572.9 ppb	08:06:21
3	Sb 206.836†	1191.9	1312.2	558.89 ug/L	558.89 ppb	08:06:21
3	Se 196.026†	1950.0	2210.6	2548.7 ug/L	2548.7 ppb	08:06:21
3	Si 251.611†	122809.6	137311.8	5238.2 ug/L	5238.2 ppb	08:06:00
3	Sn 189.927†	1568.5	1756.7	480.70 ug/L	480.70 ppb	08:06:21
3	Ti 334.940†	248682.4	280144.8	512.16 ug/L	512.16 ppb	08:06:00
3	Tl 190.801†	974.2	1122.5	446.34 ug/L	446.34 ppb	08:06:21
3	U 409.014†	14267.6	17955.9	508.89 ug/L	508.89 ppb	08:06:00
3	V 292.402†	57101.7	65436.6	513.32 ug/L	513.32 ppb	08:06:00
3	Zn 213.857†	38551.6	42662.7	494.15 ug/L	494.15 ppb	08:06:00
3	SiO2†	121702.3	136051.6	11033 ug/L	11033 ppb	08:06:36

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	750945.8	88.837 %		0.2565			0.29%
Sc Radial	4109.0	90.3 %		0.26			0.28%
Y 371.029	618642.4	86.773 %		0.2010			0.23%
Y RADIAL	4409.5	89.68 %		0.181			0.20%
Ag 328.068†	43142.2	275.58 ug/L		0.782	275.58 ppb	0.782	0.28%
QC value within limits for Ag 328.068 Recovery = 110.23%							
Al 396.153Radial†	527618.1	521990 ug/L		7979.8	521990 ppb	7979.8	1.53%
QC value within limits for Al 396.153Radial Recovery = 104.40%							
As 188.979†	843.6	522.50 ug/L		9.756	522.50 ppb	9.756	1.87%
QC value within limits for As 188.979 Recovery = 104.50%							
B 249.677†	19502.7	519.51 ug/L		3.061	519.51 ppb	3.061	0.59%
QC value within limits for B 249.677 Recovery = 103.90%							
Ba 233.527†	51068.1	492.32 ug/L		0.771	492.32 ppb	0.771	0.16%
QC value within limits for Ba 233.527 Recovery = 98.46%							
Be 313.107†	575003.6	246.58 ug/L		0.147	246.58 ppb	0.147	0.06%
QC value within limits for Be 313.107 Recovery = 98.63%							
Ca 317.933Radial†	256162.9	483380 ug/L		7092.7	483380 ppb	7092.7	1.47%

QC value within limits for Ca 317.933 Radial Recovery = 96.68%							
Cd	226.502†	32680.9	461.12 ug/L	2.144	461.12 ppb	2.144	0.46%
QC value within limits for Cd 226.502 Recovery = 92.22%							
Co	228.616†	16972.4	444.21 ug/L	2.346	444.21 ppb	2.346	0.53%
QC value within limits for Co 228.616 Recovery = 88.84%							
Cr	267.716†	34222.6	485.75 ug/L	1.302	485.75 ppb	1.302	0.27%
QC value within limits for Cr 267.716 Recovery = 97.15%							
Cu	324.752†	165030.9	556.39 ug/L	1.413	556.39 ppb	1.413	0.25%
QC value within limits for Cu 324.752 Recovery = 111.28%							
Fe	238.204 Radial†	16371.9	187930 ug/L	686.7	187930 ppb	686.7	0.37%
QC value within limits for Fe 238.204 Radial Recovery = 93.96%							
K	766.490 Radial†	29288.2	5408.1 ug/L	75.32	5408.1 ppb	75.32	1.39%
QC value within limits for K 766.490 Radial Recovery = 108.16%							
Mg	279.077 IEC†	11880.1	493040 ug/L	1881.2	493040 ppb	1881.2	0.38%
QC value within limits for Mg 279.077 IEC Recovery = 98.61%							
Mn	257.610†	359247.2	476.10 ug/L	0.825	476.10 ppb	0.825	0.17%
QC value within limits for Mn 257.610 Recovery = 95.22%							
Mo	202.031†	5177.5	486.25 ug/L	2.148	486.25 ppb	2.148	0.44%
QC value within limits for Mo 202.031 Recovery = 97.25%							
Na	589.592 Radial†	16214.1	5661.4 ug/L	94.38	5661.4 ppb	94.38	1.67%
QC value within limits for Na 589.592 Radial Recovery = 113.23%							
Ni	231.604†	13988.4	451.69 ug/L	2.326	451.69 ppb	2.326	0.51%
QC value within limits for Ni 231.604 Recovery = 90.34%							
P	214.914†	3267.8	2350.8 ug/L	14.78	2350.8 ppb	14.78	0.63%
QC value within limits for P 214.914 Recovery = 94.03%							
Pb	220.353†	2298.7	455.96 ug/L	2.997	455.96 ppb	2.997	0.66%
QC value within limits for Pb 220.353 Recovery = 91.19%							
S	181.975 Axial†	1459.2	2546.3 ug/L	31.32	2546.3 ppb	31.32	1.23%
QC value within limits for S 181.975 Axial Recovery = 101.85%							
Sb	206.836†	1293.1	550.79 ug/L	7.368	550.79 ppb	7.368	1.34%
QC value within limits for Sb 206.836 Recovery = 110.16%							
Se	196.026†	2193.5	2535.0 ug/L	17.20	2535.0 ppb	17.20	0.68%
QC value within limits for Se 196.026 Recovery = 101.40%							
Si	251.611†	137172.0	5232.9 ug/L	7.77	5232.9 ppb	7.77	0.15%
QC value within limits for Si 251.611 Recovery = 104.66%							
Sn	189.927†	1755.0	479.56 ug/L	3.983	479.56 ppb	3.983	0.83%
QC value within limits for Sn 189.927 Recovery = 95.91%							
Sr	421.552†	66583.4	518.06 ug/L	9.017	518.06 ppb	9.017	1.74%
QC value within limits for Sr 421.552 Recovery = 103.61%							
Ti	334.940†	279862.8	510.96 ug/L	1.417	510.96 ppb	1.417	0.28%
QC value within limits for Ti 334.940 Recovery = 102.19%							
Tl	190.801†	1099.8	437.39 ug/L	8.695	437.39 ppb	8.695	1.99%
QC value within limits for Tl 190.801 Recovery = 87.48%							
U	409.014†	18090.6	512.79 ug/L	3.380	512.79 ppb	3.380	0.66%
QC value within limits for U 409.014 Recovery = 102.56%							
V	292.402†	65324.0	512.33 ug/L	1.164	512.33 ppb	1.164	0.23%
QC value within limits for V 292.402 Recovery = 102.47%							
Zn	213.857†	42628.8	493.63 ug/L	0.602	493.63 ppb	0.602	0.12%
QC value within limits for Zn 213.857 Recovery = 98.73%							
SiO2†		136020.4	11030 ug/L	41.4	11030 ppb	41.4	0.38%
QC value within limits for SiO2 Recovery = 103.13%							

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 3/22/2010 08:08:46

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	4032.5	4032.5	88.6 %		08:10:59
1	Y RADIAL	4330.3	4330.3	88.07 %		08:10:59
1	Al 396.153Radial†	455115.3	513813.8	508360 ug/L	508360 ppb	08:10:39
1	Ca 317.933Radial†	222639.0	251299.8	474200 ug/L	474200 ppb	08:10:39
1	Fe 238.204 Radial†	33157.4	37421.9	429520 ug/L	429520 ppb	08:10:59
1	K 766.490 Radial†	2624.1	451.7	-274.15 ug/L	-274.15 ppb	08:10:39
1	Mg 279.077 IEC†	10392.5	11730.8	486580 ug/L	486580 ppb	08:10:59
1	Na 589.592 Radial†	1310121.8	1479602.0	516630 ug/L	516630 ppb	08:10:39
1	Sr 421.552†	1409.1	1553.2	8.6282 ug/L	8.6282 ppb	08:10:59
1	Sc 361.383	724624.5	724624.5	85.723 %		08:11:57
1	Y 371.029	598410.6	598410.6	83.935 %		08:11:57
1	Ag 328.068†	-19981.1	-23465.4	-6.6067 ug/L	-6.6067 ppb	08:11:57
1	As 188.979†	-149.5	-152.3	14.724 ug/L	14.724 ppb	08:12:17
1	B 249.677†	1129.9	1765.5	-19.870 ug/L	-19.870 ppb	08:11:57
1	Ba 233.527†	-1333.8	-1567.9	-1.7800 ug/L	-1.7800 ppb	08:12:17
1	Be 313.107†	-10325.3	-7587.5	-3.2886 ug/L	-3.2886 ppb	08:11:57
1	Cd 226.502†	2703.4	3302.0	7.0477 ug/L	7.0477 ppb	08:12:17
1	Co 228.616†	222.4	313.0	1.9891 ug/L	1.9891 ppb	08:12:17
1	Cr 267.716†	-1104.2	-1358.3	21.174 ug/L	21.174 ppb	08:12:17
1	Cu 324.752†	803.5	-4588.7	-0.7058 ug/L	-0.7058 ppb	08:11:57
1	Mn 257.610†	-18761.2	-22272.1	-7.1075 ug/L	-7.1075 ppb	08:11:57
1	Mo 202.031†	-378.5	-454.5	-1.9140 ug/L	-1.9140 ppb	08:12:17
1	Ni 231.604†	222.5	187.0	6.0362 ug/L	6.0362 ppb	08:12:17
1	P 214.914†	476.3	355.0	52.001 ug/L	52.001 ppb	08:12:17
1	Pb 220.353†	-437.4	-461.3	-14.263 ug/L	-14.263 ppb	08:12:17
1	S 181.975 Axial†	58.9	38.8	-24.899 ug/L	-24.899 ppb	08:12:17
1	Sb 206.836†	40.9	22.3	-11.087 ug/L	-11.087 ppb	08:12:17
1	Se 196.026†	-1691.9	-1951.5	-228.83 ug/L	-228.83 ppb	08:12:17
1	Si 251.611†	-405.4	-991.7	-37.369 ug/L	-37.369 ppb	08:12:17
1	Sn 189.927†	-335.8	-395.4	-31.537 ug/L	-31.537 ppb	08:12:17
1	Ti 334.940†	-11615.1	-12503.9	-4.4559 ug/L	-4.4559 ppb	08:11:57
1	Tl 190.801†	-86.7	-72.1	-28.847 ug/L	-28.847 ppb	08:12:17
1	U 409.014†	429485.4	502956.3	14832 ug/L	14832 ppb	08:11:57
1	V 292.402†	1588.7	3203.9	0.4450 ug/L	0.4450 ppb	08:12:17
1	Zn 213.857†	4624.0	4789.8	-5.2650 ug/L	-5.2650 ppb	08:12:17
1	SiO2†	-497.1	-1116.2	-89.505 ug/L	-89.505 ppb	08:13:14
2	Sc Radial	4050.1	4050.1	89.0 %		08:11:25
2	Y RADIAL	4351.3	4351.3	88.50 %		08:11:25
2	Al 396.153Radial†	462295.7	519658.7	514140 ug/L	514140 ppb	08:11:05
2	Ca 317.933Radial†	224647.9	252469.0	476410 ug/L	476410 ppb	08:11:05
2	Fe 238.204 Radial†	33314.8	37436.7	429690 ug/L	429690 ppb	08:11:25
2	K 766.490 Radial†	2665.4	485.3	-269.69 ug/L	-269.69 ppb	08:11:05
2	Mg 279.077 IEC†	10454.0	11749.1	487340 ug/L	487340 ppb	08:11:25
2	Na 589.592 Radial†	1323598.2	1488342.4	519680 ug/L	519680 ppb	08:11:05
2	Sr 421.552†	1416.5	1554.6	8.6225 ug/L	8.6225 ppb	08:11:25
2	Sc 361.383	723369.3	723369.3	85.575 %		08:12:23
2	Y 371.029	597439.4	597439.4	83.799 %		08:12:23
2	Ag 328.068†	-19678.5	-23152.3	-4.9275 ug/L	-4.9275 ppb	08:12:23
2	As 188.979†	-134.8	-135.5	24.227 ug/L	24.227 ppb	08:12:43
2	B 249.677†	1257.4	1916.8	-15.617 ug/L	-15.617 ppb	08:12:23
2	Ba 233.527†	-1288.6	-1517.7	-1.2992 ug/L	-1.2992 ppb	08:12:43
2	Be 313.107†	-10307.5	-7587.6	-3.2894 ug/L	-3.2894 ppb	08:12:23
2	Cd 226.502†	2688.5	3290.2	6.8460 ug/L	6.8460 ppb	08:12:43
2	Co 228.616†	205.4	293.6	1.4754 ug/L	1.4754 ppb	08:12:43
2	Cr 267.716†	-1074.5	-1325.8	21.656 ug/L	21.656 ppb	08:12:43
2	Cu 324.752†	818.4	-4569.6	-0.6026 ug/L	-0.6026 ppb	08:12:23
2	Mn 257.610†	-18764.0	-22313.3	-7.1766 ug/L	-7.1766 ppb	08:12:23
2	Mo 202.031†	-382.1	-459.4	-2.3170 ug/L	-2.3170 ppb	08:12:43
2	Ni 231.604†	250.8	220.4	7.1171 ug/L	7.1171 ppb	08:12:43

2	P 214.914†	456.0	332.2	36.050 ug/L	36.050 ppb	08:12:43
2	Pb 220.353†	-429.2	-452.7	-11.624 ug/L	-11.624 ppb	08:12:43
2	S 181.975 Axial†	57.2	36.9	-29.417 ug/L	-29.417 ppb	08:12:43
2	Sb 206.836†	50.3	33.4	-6.5566 ug/L	-6.5566 ppb	08:12:43
2	Se 196.026†	-1682.8	-1944.3	-220.58 ug/L	-220.58 ppb	08:12:43
2	Si 251.611†	-401.0	-987.4	-37.199 ug/L	-37.199 ppb	08:12:43
2	Sn 189.927†	-338.2	-398.9	-31.962 ug/L	-31.962 ppb	08:12:43
2	Ti 334.940†	-11774.3	-12713.5	-4.5623 ug/L	-4.5623 ppb	08:12:23
2	Tl 190.801†	-80.4	-64.9	-26.008 ug/L	-26.008 ppb	08:12:43
2	U 409.014†	427120.2	501061.8	14776 ug/L	14776 ppb	08:12:23
2	V 292.402†	1507.5	3112.4	-0.4118 ug/L	-0.4118 ppb	08:12:43
2	Zn 213.857†	4574.9	4741.8	-5.8884 ug/L	-5.8884 ppb	08:12:43
2	SiO2†	-382.3	-983.1	-78.688 ug/L	-78.688 ppb	08:13:19
3	Sc Radial	4032.3	4032.3	88.6 %		08:11:50
3	Y RADIAL	4344.1	4344.1	88.35 %		08:11:50
3	Al 396.153Radial†	458746.3	517944.4	512440 ug/L	512440 ppb	08:11:30
3	Ca 317.933Radial†	223331.9	252097.4	475710 ug/L	475710 ppb	08:11:30
3	Fe 238.204 Radial†	33207.0	37480.2	430190 ug/L	430190 ppb	08:11:50
3	K 766.490 Radial†	2716.7	556.3	-255.65 ug/L	-255.65 ppb	08:11:30
3	Mg 279.077 IEC†	10405.3	11745.9	487210 ug/L	487210 ppb	08:11:50
3	Na 589.592 Radial†	1315942.7	1486264.3	518960 ug/L	518960 ppb	08:11:30
3	Sr 421.552†	1408.5	1552.6	8.6119 ug/L	8.6119 ppb	08:11:50
3	Sc 361.383	724887.8	724887.8	85.755 %		08:12:49
3	Y 371.029	598776.7	598776.7	83.986 %		08:12:49
3	Ag 328.068†	-19710.4	-23141.4	-4.7095 ug/L	-4.7095 ppb	08:12:49
3	As 188.979†	-143.7	-145.5	18.707 ug/L	18.707 ppb	08:13:09
3	B 249.677†	1239.1	1892.4	-16.387 ug/L	-16.387 ppb	08:12:49
3	Ba 233.527†	-1324.2	-1556.2	-1.6494 ug/L	-1.6494 ppb	08:13:09
3	Be 313.107†	-10269.8	-7518.5	-3.2601 ug/L	-3.2601 ppb	08:12:49
3	Cd 226.502†	2667.4	3259.0	6.3349 ug/L	6.3349 ppb	08:13:09
3	Co 228.616†	184.7	269.0	0.8166 ug/L	0.8166 ppb	08:13:09
3	Cr 267.716†	-1052.8	-1297.9	22.086 ug/L	22.086 ppb	08:13:09
3	Cu 324.752†	823.9	-4565.3	-0.5635 ug/L	-0.5635 ppb	08:12:49
3	Mn 257.610†	-18753.6	-22255.2	-7.0447 ug/L	-7.0447 ppb	08:12:49
3	Mo 202.031†	-396.5	-475.3	-3.7133 ug/L	-3.7133 ppb	08:13:09
3	Ni 231.604†	204.0	165.3	5.3359 ug/L	5.3359 ppb	08:13:09
3	P 214.914†	477.1	355.7	52.988 ug/L	52.988 ppb	08:13:09
3	Pb 220.353†	-434.0	-457.2	-12.791 ug/L	-12.791 ppb	08:13:09
3	S 181.975 Axial†	58.6	38.5	-26.354 ug/L	-26.354 ppb	08:13:09
3	Sb 206.836†	44.5	26.4	-9.5027 ug/L	-9.5027 ppb	08:13:09
3	Se 196.026†	-1685.8	-1943.6	-219.09 ug/L	-219.09 ppb	08:13:09
3	Si 251.611†	-353.7	-931.2	-35.038 ug/L	-35.038 ppb	08:13:09
3	Sn 189.927†	-339.7	-399.9	-32.341 ug/L	-32.341 ppb	08:13:09
3	Ti 334.940†	-11825.1	-12743.9	-4.7000 ug/L	-4.7000 ppb	08:12:49
3	Tl 190.801†	-80.6	-64.9	-26.021 ug/L	-26.021 ppb	08:13:09
3	U 409.014†	428112.1	501173.0	14779 ug/L	14779 ppb	08:12:49
3	V 292.402†	1516.8	3119.4	-0.4444 ug/L	-0.4444 ppb	08:13:09
3	Zn 213.857†	4606.6	4767.6	-5.6346 ug/L	-5.6346 ppb	08:13:09
3	SiO2†	-461.8	-1074.8	-86.095 ug/L	-86.095 ppb	08:13:24

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	724293.9	85.684 %		0.0960			0.11%
Sc Radial	4038.3	88.7 %		0.22			0.25%
Y 371.029	598208.9	83.907 %		0.0969			0.12%
Y RADIAL	4341.9	88.31 %		0.217			0.25%
Ag 328.068†	-23253.0	-5.4146 ug/L		1.03816	-5.4146 ppb	1.03816	19.17%
Al 396.153Radial†	517139.0	511650 ug/L		2972.6	511650 ppb	2972.6	0.58%
QC value within limits for Al 396.153Radial Recovery = 102.33%							
As 188.979†	-144.4	19.219 ug/L		4.7720	19.219 ppb	4.7720	24.83%
B 249.677†	1858.2	-17.292 ug/L		2.2659	-17.292 ppb	2.2659	13.10%
Ba 233.527†	-1547.3	-1.5762 ug/L		0.24862	-1.5762 ppb	0.24862	15.77%
Be 313.107†	-7564.6	-3.2793 ug/L		0.01672	-3.2793 ppb	0.01672	0.51%
Ca 317.933Radial†	251955.4	475440 ug/L		1127.3	475440 ppb	1127.3	0.24%
QC value within limits for Ca 317.933Radial Recovery = 95.09%							
Cd 226.502†	3283.7	6.7429 ug/L		0.36745	6.7429 ppb	0.36745	5.45%
Co 228.616†	291.9	1.4270 ug/L		0.58774	1.4270 ppb	0.58774	41.19%
Cr 267.716†	-1327.3	21.639 ug/L		0.4563	21.639 ppb	0.4563	2.11%
Cu 324.752†	-4574.6	-0.6240 ug/L		0.07349	-0.6240 ppb	0.07349	11.78%

Fe 238.204 Radial†	37446.3	429800 ug/L	347.9	429800 ppb	347.9	0.08%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 85.96%						
K 766.490 Radial†	497.8	-266.50 ug/L	9.659	-266.50 ppb	9.659	3.62%
Mg 279.077 IEC†	11741.9	487040 ug/L	406.8	487040 ppb	406.8	0.08%
QC value within limits for Mg 279.077 IEC Recovery = 97.41%						
Mn 257.610†	-22280.2	-7.1096 ug/L	0.06599	-7.1096 ppb	0.06599	0.93%
Mo 202.031†	-463.1	-2.6481 ug/L	0.94423	-2.6481 ppb	0.94423	35.66%
Na 589.592 Radial†	1484736.2	518420 ug/L	1594.4	518420 ppb	1594.4	0.31%
QC value within limits for Na 589.592 Radial Recovery = 103.68%						
Ni 231.604†	190.9	6.1631 ug/L	0.89739	6.1631 ppb	0.89739	14.56%
P 214.914†	347.6	47.013 ug/L	9.5069	47.013 ppb	9.5069	20.22%
Pb 220.353†	-457.1	-12.893 ug/L	1.3223	-12.893 ppb	1.3223	10.26%
S 181.975 Axial†	38.1	-26.890 ug/L	2.3064	-26.890 ppb	2.3064	8.58%
Sb 206.836†	27.4	-9.0488 ug/L	2.29916	-9.0488 ppb	2.29916	25.41%
Se 196.026†	-1946.5	-222.83 ug/L	5.248	-222.83 ppb	5.248	2.35%
Si 251.611†	-970.1	-36.535 ug/L	1.2997	-36.535 ppb	1.2997	3.56%
Sn 189.927†	-398.1	-31.946 ug/L	0.4023	-31.946 ppb	0.4023	1.26%
Sr 421.552†	1553.4	8.6209 ug/L	0.00823	8.6209 ppb	0.00823	0.10%
Ti 334.940†	-12653.8	-4.5727 ug/L	0.12240	-4.5727 ppb	0.12240	2.68%
Tl 190.801†	-67.3	-26.959 ug/L	1.6357	-26.959 ppb	1.6357	6.07%
U 409.014†	501730.4	14796 ug/L	31.5	14796 ppb	31.5	0.21%
QC value within limits for U 409.014 Recovery = 98.64%						
V 292.402†	3145.2	-0.1371 ug/L	0.50434	-0.1371 ppb	0.50434	367.94%
Zn 213.857†	4766.4	-5.5960 ug/L	0.31348	-5.5960 ppb	0.31348	5.60%
SiO2†	-1058.0	-84.763 ug/L	5.5300	-84.763 ppb	5.5300	6.52%

QC Failed. Continue with analysis.

Sequence No.: 12
 Sample ID: LR2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 16
 Date Collected: 3/22/2010 08:15:34
 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	4635.1	4635.1	102 %		08:17:32
1	Y RADIAL	4924.5	4924.5	100.2 %		08:17:32
1	Al 396.153Radial†	379.8	446.1	-24.373 ug/L	-24.373 ppb	08:17:32
1	Ca 317.933Radial†	30.4	11.5	21.773 ug/L	21.773 ppb	08:17:52
1	Fe 238.204 Radial†	-15.1	-21.5	33.458 ug/L	33.458 ppb	08:17:52
1	K 766.490 Radial†	1581932.8	1551055.1	295110 ug/L	295110 ppb	08:17:27
1	Mg 279.077 IEC†	-5.0	-5.3	-118.20 ug/L	-118.20 ppb	08:17:52
1	Na 589.592 Radial†	-154.4	566.2	197.69 ug/L	197.69 ppb	08:17:32
1	Sr 421.552†	1265429.5	1242700.2	9736.4 ug/L	9736.4 ppb	08:17:27
1	Sc 361.383	856560.6	856560.6	101.33 %		08:19:09
1	Y 371.029	704197.6	704197.6	98.773 %		08:19:09
1	Ag 328.068†	-6565.6	-6636.0	6.3088 ug/L	6.3088 ppb	08:19:15
1	As 188.979†	17482.6	17274.9	9795.9 ug/L	9795.9 ppb	08:19:15
1	B 249.677†	179738.0	177823.7	5000.0 ug/L	5000.0 ppb	08:19:09
1	Ba 233.527†	1497512.4	1477823.7	14070 ug/L	14070 ppb	08:19:09
1	Be 313.107†	6755010.6	6670709.7	2869.9 ug/L	2869.9 ppb	08:19:03
1	Cd 226.502†	666695.9	658084.2	9674.5 ug/L	9674.5 ppb	08:19:09
1	Co 228.616†	359846.8	355172.1	9348.7 ug/L	9348.7 ppb	08:19:15
1	Cr 267.716†	1794616.0	1770965.3	24093 ug/L	24093 ppb	08:19:09
1	Cu 324.752†	6143712.4	6057460.4	20068 ug/L	20068 ppb	08:19:03
1	Mn 257.610†	7087508.2	6993994.8	9300.3 ug/L	9300.3 ppb	08:19:03
1	Mo 202.031†	108161.6	106727.5	9604.2 ug/L	9604.2 ppb	08:19:15
1	Ni 231.604†	302674.4	298624.8	9642.7 ug/L	9642.7 ppb	08:19:15
1	P 214.914†	23847.8	23333.8	13793 ug/L	13793 ppb	08:19:15
1	Pb 220.353†	153716.2	151745.3	23750 ug/L	23750 ppb	08:19:15
1	S 181.975 Axial†	28513.4	28108.8	50932 ug/L	50932 ppb	08:19:15
1	Sb 206.836†	24581.9	24233.4	10680 ug/L	10680 ppb	08:19:15
1	Se 196.026†	11971.5	11836.4	9888.3 ug/L	9888.3 ppb	08:19:15
1	Si 251.611†	1249026.4	1232095.9	46936 ug/L	46936 ppb	08:19:09
1	Sn 189.927†	43695.9	43118.0	9937.1 ug/L	9937.1 ppb	08:19:15
1	Ti 334.940†	5675132.6	5601609.1	9735.3 ug/L	9735.3 ppb	08:19:03
1	Tl 190.801†	24366.4	24075.3	9566.5 ug/L	9566.5 ppb	08:19:15
1	U 409.014†	-635.5	1316.0	-14.921 ug/L	-14.921 ppb	08:19:15
1	V 292.402†	1269304.0	1253976.6	10161 ug/L	10161 ppb	08:19:09
1	Zn 213.857†	1151918.8	1136178.7	13914 ug/L	13914 ppb	08:19:09
1	SiO2†	1257411.5	1240353.2	100440 ug/L	100440 ppb	08:20:00
2	Sc Radial	4640.2	4640.2	102 %		08:18:03
2	Y RADIAL	4926.9	4926.9	100.2 %		08:18:03
2	Al 396.153Radial†	398.4	464.0	-8.9142 ug/L	-8.9142 ppb	08:18:03
2	Ca 317.933Radial†	38.6	19.5	36.850 ug/L	36.850 ppb	08:18:23
2	Fe 238.204 Radial†	-15.3	-21.7	32.216 ug/L	32.216 ppb	08:18:23
2	K 766.490 Radial†	1563355.8	1531124.2	291320 ug/L	291320 ppb	08:17:57
2	Mg 279.077 IEC†	-2.1	-2.5	-1.3356 ug/L	-1.3356 ppb	08:18:23
2	Na 589.592 Radial†	-152.5	568.1	198.37 ug/L	198.37 ppb	08:18:03
2	Sr 421.552†	1244722.1	1221021.1	9566.5 ug/L	9566.5 ppb	08:17:57
2	Sc 361.383	860084.3	860084.3	101.75 %		08:19:29
2	Y 371.029	708436.6	708436.6	99.367 %		08:19:29
2	Ag 328.068†	-6715.0	-6756.3	5.7365 ug/L	5.7365 ppb	08:19:34
2	As 188.979†	17688.7	17406.8	9870.3 ug/L	9870.3 ppb	08:19:34
2	B 249.677†	181294.7	178627.0	5022.6 ug/L	5022.6 ppb	08:19:29
2	Ba 233.527†	1500564.6	1474768.8	14041 ug/L	14041 ppb	08:19:29
2	Be 313.107†	6798878.2	6686512.3	2876.7 ug/L	2876.7 ppb	08:19:23
2	Cd 226.502†	669160.9	657811.4	9670.5 ug/L	9670.5 ppb	08:19:29
2	Co 228.616†	363020.8	356836.7	9392.6 ug/L	9392.6 ppb	08:19:34
2	Cr 267.716†	1801707.2	1770678.8	24090 ug/L	24090 ppb	08:19:29
2	Cu 324.752†	6182153.5	6070401.2	20111 ug/L	20111 ppb	08:19:23
2	Mn 257.610†	7130764.7	7007852.5	9318.7 ug/L	9318.7 ppb	08:19:23
2	Mo 202.031†	109134.1	107246.0	9650.8 ug/L	9650.8 ppb	08:19:34
2	Ni 231.604†	305514.5	300192.3	9693.3 ug/L	9693.3 ppb	08:19:34

2	P 214.914†	24110.7	23495.7	13908 ug/L	13908 ppb	08:19:34
2	Pb 220.353†	155086.2	152470.3	23864 ug/L	23864 ppb	08:19:34
2	S 181.975 Axial†	28763.3	28239.2	51169 ug/L	51169 ppb	08:19:34
2	Sb 206.836†	24916.6	24463.0	10779 ug/L	10779 ppb	08:19:34
2	Se 196.026†	12088.0	11902.5	9943.4 ug/L	9943.4 ppb	08:19:34
2	Si 251.611†	1256833.1	1234718.5	47036 ug/L	47036 ppb	08:19:29
2	Sn 189.927†	44120.6	43358.7	9992.6 ug/L	9992.6 ppb	08:19:34
2	Ti 334.940†	5713318.0	5616193.2	9760.6 ug/L	9760.6 ppb	08:19:23
2	Tl 190.801†	24558.6	24165.7	9602.3 ug/L	9602.3 ppb	08:19:34
2	U 409.014†	-738.3	1217.6	-17.824 ug/L	-17.824 ppb	08:19:34
2	V 292.402†	1275984.2	1255410.0	10173 ug/L	10173 ppb	08:19:29
2	Zn 213.857†	1156623.5	1136145.3	13913 ug/L	13913 ppb	08:19:29
2	SiO2†	1254702.6	1232607.0	99807 ug/L	99807 ppb	08:20:06
3	Sc Radial	4592.3	4592.3	101 %		08:18:33
3	Y RADIAL	4868.3	4868.3	99.01 %		08:18:33
3	Al 396.153Radial†	380.1	449.9	-22.990 ug/L	-22.990 ppb	08:18:33
3	Ca 317.933Radial†	36.2	17.5	33.052 ug/L	33.052 ppb	08:18:53
3	Fe 238.204 Radial†	-15.9	-22.4	24.489 ug/L	24.489 ppb	08:18:53
3	K 766.490 Radial†	1574721.4	1558399.6	296500 ug/L	296500 ppb	08:18:28
3	Mg 279.077 IEC†	-4.5	-4.9	-101.80 ug/L	-101.80 ppb	08:18:53
3	Na 589.592 Radial†	-133.0	585.9	204.59 ug/L	204.59 ppb	08:18:33
3	Sr 421.552†	1257025.3	1245963.0	9761.9 ug/L	9761.9 ppb	08:18:28
3	Sc 361.383	862892.5	862892.5	102.08 %		08:19:49
3	Y 371.029	709889.1	709889.1	99.571 %		08:19:49
3	Ag 328.068†	-6745.4	-6764.6	5.6729 ug/L	5.6729 ppb	08:19:54
3	As 188.979†	17795.5	17454.9	9897.5 ug/L	9897.5 ppb	08:19:54
3	B 249.677†	182013.0	178750.8	5026.0 ug/L	5026.0 ppb	08:19:49
3	Ba 233.527†	1505388.3	1474694.7	14041 ug/L	14041 ppb	08:19:49
3	Be 313.107†	6830963.9	6696198.1	2880.9 ug/L	2880.9 ppb	08:19:42
3	Cd 226.502†	671253.3	657720.9	9669.2 ug/L	9669.2 ppb	08:19:49
3	Co 228.616†	365294.4	357902.9	9420.6 ug/L	9420.6 ppb	08:19:54
3	Cr 267.716†	1807193.6	1770290.6	24084 ug/L	24084 ppb	08:19:49
3	Cu 324.752†	6229338.7	6096851.4	20199 ug/L	20199 ppb	08:19:42
3	Mn 257.610†	7161259.4	7014918.2	9328.1 ug/L	9328.1 ppb	08:19:42
3	Mo 202.031†	109517.4	107272.4	9653.2 ug/L	9653.2 ppb	08:19:54
3	Ni 231.604†	306985.0	300655.7	9708.3 ug/L	9708.3 ppb	08:19:54
3	P 214.914†	24300.0	23604.1	13972 ug/L	13972 ppb	08:19:54
3	Pb 220.353†	155850.3	152722.8	23903 ug/L	23903 ppb	08:19:54
3	S 181.975 Axial†	28985.8	28365.1	51397 ug/L	51397 ppb	08:19:54
3	Sb 206.836†	25014.1	24478.8	10786 ug/L	10786 ppb	08:19:54
3	Se 196.026†	12128.2	11903.1	9944.0 ug/L	9944.0 ppb	08:19:54
3	Si 251.611†	1263813.0	1237536.2	47143 ug/L	47143 ppb	08:19:49
3	Sn 189.927†	44349.5	43441.9	10012 ug/L	10012 ppb	08:19:54
3	Ti 334.940†	5741429.6	5625458.1	9776.8 ug/L	9776.8 ppb	08:19:42
3	Tl 190.801†	24619.9	24147.3	9595.0 ug/L	9595.0 ppb	08:19:54
3	U 409.014†	-681.2	1275.9	-16.086 ug/L	-16.086 ppb	08:19:54
3	V 292.402†	1279612.5	1254883.2	10169 ug/L	10169 ppb	08:19:49
3	Zn 213.857†	1160389.7	1136135.3	13913 ug/L	13913 ppb	08:19:49
3	SiO2†	1266697.7	1240344.6	100440 ug/L	100440 ppb	08:20:12

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859845.8	101.72 %	0.375			0.37%
Sc Radial	4622.5	102 %	0.6			0.57%
Y 371.029	707507.8	99.237 %	0.4148			0.42%
Y RADIAL	4906.6	99.79 %	0.675			0.68%
Ag 328.068†	-6719.0	5.9061 ug/L	0.35022	5.9061 ppb	0.35022	5.93%
Al 396.153Radial†	453.4	-18.759 ug/L	8.5540	-18.759 ppb	8.5540	45.60%
As 188.979†	17378.9	9854.6 ug/L	52.61	9854.6 ppb	52.61	0.53%
QC value within limits for As 188.979 Recovery = 98.55%						
B 249.677†	178400.5	5016.2 ug/L	14.13	5016.2 ppb	14.13	0.28%
QC value within limits for B 249.677 Recovery = 100.32%						
Ba 233.527†	1475762.4	14051 ug/L	17.0	14051 ppb	17.0	0.12%
QC value within limits for Ba 233.527 Recovery = 93.67%						
Be 313.107†	6684473.4	2875.8 ug/L	5.54	2875.8 ppb	5.54	0.19%
QC value within limits for Be 313.107 Recovery = 95.86%						
Ca 317.933Radial†	16.2	30.558 ug/L	7.8414	30.558 ppb	7.8414	25.66%
Cd 226.502†	657872.2	9671.4 ug/L	2.76	9671.4 ppb	2.76	0.03%
QC value within limits for Cd 226.502 Recovery = 96.71%						

Co 228.616†	356637.3	9387.3 ug/L	36.24	9387.3 ppb	36.24	0.39%
QC value within limits for Co 228.616 Recovery = 93.87%						
Cr 267.716†	1770644.9	24089 ug/L	4.6	24089 ppb	4.6	0.02%
QC value within limits for Cr 267.716 Recovery = 96.36%						
Cu 324.752†	6074904.4	20126 ug/L	66.5	20126 ppb	66.5	0.33%
QC value within limits for Cu 324.752 Recovery = 100.63%						
Fe 238.204 Radial†	-21.9	30.054 ug/L	4.8594	30.054 ppb	4.8594	16.17%
K 766.490 Radial†	1546859.6	294310 ug/L	2685.4	294310 ppb	2685.4	0.91%
QC value within limits for K 766.490 Radial Recovery = 98.10%						
Mg 279.077 IEC†	-4.2	-73.781 ug/L	63.2733	-73.781 ppb	63.2733	85.76%
Mn 257.610†	7005588.5	9315.7 ug/L	14.15	9315.7 ppb	14.15	0.15%
QC value within limits for Mn 257.610 Recovery = 93.16%						
Mo 202.031†	107081.9	9636.1 ug/L	27.65	9636.1 ppb	27.65	0.29%
QC value within limits for Mo 202.031 Recovery = 96.36%						
Na 589.592 Radial†	573.4	200.22 ug/L	3.806	200.22 ppb	3.806	1.90%
Ni 231.604†	299824.2	9681.4 ug/L	34.37	9681.4 ppb	34.37	0.35%
QC value within limits for Ni 231.604 Recovery = 96.81%						
P 214.914†	23477.9	13891 ug/L	90.9	13891 ppb	90.9	0.65%
QC value within limits for P 214.914 Recovery = 92.61%						
Pb 220.353†	152312.8	23839 ug/L	79.4	23839 ppb	79.4	0.33%
QC value within limits for Pb 220.353 Recovery = 95.36%						
S 181.975 Axial†	28237.7	51166 ug/L	232.2	51166 ppb	232.2	0.45%
QC value within limits for S 181.975 Axial Recovery = 102.33%						
Sb 206.836†	24391.8	10748 ug/L	59.7	10748 ppb	59.7	0.55%
QC value within limits for Sb 206.836 Recovery = 107.48%						
Se 196.026†	11880.7	9925.2 ug/L	32.00	9925.2 ppb	32.00	0.32%
QC value within limits for Se 196.026 Recovery = 99.25%						
Si 251.611†	1234783.5	47038 ug/L	103.6	47038 ppb	103.6	0.22%
QC value within limits for Si 251.611 Recovery = 94.08%						
Sn 189.927†	43306.2	9980.5 ug/L	38.77	9980.5 ppb	38.77	0.39%
QC value within limits for Sn 189.927 Recovery = 99.80%						
Sr 421.552†	1236561.4	9688.3 ug/L	106.22	9688.3 ppb	106.22	1.10%
QC value within limits for Sr 421.552 Recovery = 96.88%						
Ti 334.940†	5614420.1	9757.6 ug/L	20.92	9757.6 ppb	20.92	0.21%
QC value within limits for Ti 334.940 Recovery = 97.58%						
Tl 190.801†	24129.4	9587.9 ug/L	18.92	9587.9 ppb	18.92	0.20%
QC value within limits for Tl 190.801 Recovery = 95.88%						
U 409.014†	1269.8	-16.277 ug/L	1.4605	-16.277 ppb	1.4605	8.97%
V 292.402†	1254756.6	10168 ug/L	6.2	10168 ppb	6.2	0.06%
QC value within limits for V 292.402 Recovery = 101.68%						
Zn 213.857†	1136153.1	13913 ug/L	0.6	13913 ppb	0.6	0.00%
QC value within limits for Zn 213.857 Recovery = 92.76%						
SiO2†	1237768.3	100230 ug/L	363.2	100230 ppb	363.2	0.36%
QC value within limits for SiO2 Recovery = 93.67%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/22/2010 08:22:22

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	4747.5	4747.5	104 %		08:24:15
1	Y RADIAL	5121.1	5121.1	104.2 %		08:24:15
1	Al 396.153Radial†	5108.7	4971.4	4894.9 ug/L	4894.9 ppb	08:24:15
1	Ca 317.933Radial†	2809.2	2675.1	5048.0 ug/L	5048.0 ppb	08:24:35
1	Fe 238.204 Radial†	475.9	449.6	5175.7 ug/L	5175.7 ppb	08:24:35
1	K 766.490 Radial†	31853.0	28030.5	5326.9 ug/L	5326.9 ppb	08:24:15
1	Mg 279.077 IEC†	131.3	125.5	5208.8 ug/L	5208.8 ppb	08:24:35
1	Na 589.592 Radial†	30292.1	29762.1	10392 ug/L	10392 ppb	08:24:15
1	Sr 421.552†	67044.4	64245.3	503.32 ug/L	503.32 ppb	08:24:15
1	Sc 361.383	891260.6	891260.6	105.44 %		08:25:32
1	Y 371.029	740418.8	740418.8	103.85 %		08:25:32
1	Ag 328.068†	100495.9	95157.5	493.57 ug/L	493.57 ppb	08:25:37
1	As 188.979†	939.2	912.9	518.62 ug/L	518.62 ppb	08:25:58
1	B 249.677†	19316.7	18768.1	528.26 ug/L	528.26 ppb	08:25:37
1	Ba 233.527†	54795.0	51957.7	495.16 ug/L	495.16 ppb	08:25:37
1	Be 313.107†	1230452.6	1171465.7	501.20 ug/L	501.20 ppb	08:25:32
1	Cd 226.502†	35337.2	33663.6	494.46 ug/L	494.46 ppb	08:25:37
1	Co 228.616†	20001.8	19024.1	500.93 ug/L	500.93 ppb	08:25:37
1	Cr 267.716†	38491.7	36436.8	496.46 ug/L	496.46 ppb	08:25:37
1	Cu 324.752†	163121.7	149184.9	494.23 ug/L	494.23 ppb	08:25:37
1	Mn 257.610†	393882.1	373186.6	496.54 ug/L	496.54 ppb	08:25:32
1	Mo 202.031†	5749.2	5439.8	489.98 ug/L	489.98 ppb	08:25:58
1	Ni 231.604†	16443.2	15522.8	501.23 ug/L	501.23 ppb	08:25:37
1	P 214.914†	3604.6	3218.1	2342.5 ug/L	2342.5 ppb	08:25:58
1	Pb 220.353†	3272.4	3152.5	494.52 ug/L	494.52 ppb	08:25:58
1	S 181.975 Axial†	601.4	540.5	978.36 ug/L	978.36 ppb	08:25:58
1	Sb 206.836†	1278.1	1186.7	523.25 ug/L	523.25 ppb	08:25:58
1	Se 196.026†	599.6	590.8	510.06 ug/L	510.06 ppb	08:25:58
1	Si 251.611†	69589.1	65482.1	2494.8 ug/L	2494.8 ppb	08:25:37
1	Sn 189.927†	2239.5	2120.3	489.25 ug/L	489.25 ppb	08:25:58
1	Ti 334.940†	290934.6	276979.1	481.65 ug/L	481.65 ppb	08:25:37
1	Tl 190.801†	1308.2	1269.9	504.38 ug/L	504.38 ppb	08:25:58
1	U 409.014†	16132.0	17243.4	508.49 ug/L	508.49 ppb	08:25:37
1	V 292.402†	63886.2	61942.8	502.72 ug/L	502.72 ppb	08:25:37
1	Zn 213.857†	43057.7	40233.3	491.21 ug/L	491.21 ppb	08:25:37
1	SiO2†	69958.1	65814.6	5329.9 ug/L	5329.9 ppb	08:27:05
2	Sc Radial	4753.2	4753.2	104 %		08:24:40
2	Y RADIAL	5078.2	5078.2	103.3 %		08:24:40
2	Al 396.153Radial†	5054.6	4913.8	4837.7 ug/L	4837.7 ppb	08:24:40
2	Ca 317.933Radial†	2794.3	2657.6	5014.8 ug/L	5014.8 ppb	08:25:00
2	Fe 238.204 Radial†	476.4	449.6	5175.4 ug/L	5175.4 ppb	08:25:00
2	K 766.490 Radial†	31647.5	27797.2	5282.5 ug/L	5282.5 ppb	08:24:40
2	Mg 279.077 IEC†	131.1	125.2	5197.2 ug/L	5197.2 ppb	08:25:00
2	Na 589.592 Radial†	30073.3	29517.8	10307 ug/L	10307 ppb	08:24:40
2	Sr 421.552†	66682.5	63821.9	500.00 ug/L	500.00 ppb	08:24:40
2	Sc 361.383	885860.8	885860.8	104.80 %		08:26:03
2	Y 371.029	737014.9	737014.9	103.38 %		08:26:03
2	Ag 328.068†	101305.2	96510.7	500.58 ug/L	500.58 ppb	08:26:09
2	As 188.979†	936.2	915.5	520.14 ug/L	520.14 ppb	08:26:29
2	B 249.677†	19412.0	18970.7	533.98 ug/L	533.98 ppb	08:26:09
2	Ba 233.527†	55136.8	52600.6	501.29 ug/L	501.29 ppb	08:26:09
2	Be 313.107†	1225146.4	1173516.0	502.09 ug/L	502.09 ppb	08:26:03
2	Cd 226.502†	35647.9	34164.4	501.82 ug/L	501.82 ppb	08:26:09
2	Co 228.616†	20121.6	19254.1	506.97 ug/L	506.97 ppb	08:26:09
2	Cr 267.716†	38832.4	36984.4	503.92 ug/L	503.92 ppb	08:26:09
2	Cu 324.752†	164723.5	151656.4	502.42 ug/L	502.42 ppb	08:26:09
2	Mn 257.610†	391205.3	372909.4	496.18 ug/L	496.18 ppb	08:26:03
2	Mo 202.031†	5740.2	5464.5	492.20 ug/L	492.20 ppb	08:26:29
2	Ni 231.604†	16611.5	15778.4	509.48 ug/L	509.48 ppb	08:26:09

2	P 214.914†	3624.8	3258.2	2371.3 ug/L	2371.3 ppb	08:26:29
2	Pb 220.353†	3277.5	3176.4	498.24 ug/L	498.24 ppb	08:26:29
2	S 181.975 Axial†	600.4	543.0	983.01 ug/L	983.01 ppb	08:26:29
2	Sb 206.836†	1265.2	1181.8	521.21 ug/L	521.21 ppb	08:26:29
2	Se 196.026†	603.7	598.3	516.22 ug/L	516.22 ppb	08:26:29
2	Si 251.611†	70087.0	66359.6	2528.2 ug/L	2528.2 ppb	08:26:09
2	Sn 189.927†	2230.7	2124.8	490.29 ug/L	490.29 ppb	08:26:29
2	Ti 334.940†	293333.7	280950.3	488.55 ug/L	488.55 ppb	08:26:09
2	Tl 190.801†	1297.4	1267.1	503.29 ug/L	503.29 ppb	08:26:29
2	U 409.014†	16059.0	17267.0	509.17 ug/L	509.17 ppb	08:26:09
2	V 292.402†	64510.0	62907.4	510.47 ug/L	510.47 ppb	08:26:09
2	Zn 213.857†	43461.7	40867.7	498.97 ug/L	498.97 ppb	08:26:09
2	SiO2†	69081.5	65382.6	5294.7 ug/L	5294.7 ppb	08:27:10
3	Sc Radial	4791.3	4791.3	105 %		08:25:05
3	Y RADIAL	5104.4	5104.4	103.8 %		08:25:05
3	Al 396.153Radial†	5113.8	4931.6	4855.7 ug/L	4855.7 ppb	08:25:05
3	Ca 317.933Radial†	2790.9	2633.1	4968.7 ug/L	4968.7 ppb	08:25:25
3	Fe 238.204 Radial†	473.6	443.3	5102.9 ug/L	5102.9 ppb	08:25:25
3	K 766.490 Radial†	31796.8	27698.4	5263.8 ug/L	5263.8 ppb	08:25:05
3	Mg 279.077 IEC†	132.0	125.0	5188.7 ug/L	5188.7 ppb	08:25:25
3	Na 589.592 Radial†	30347.6	29549.8	10318 ug/L	10318 ppb	08:25:05
3	Sr 421.552†	67277.0	63879.7	500.45 ug/L	500.45 ppb	08:25:05
3	Sc 361.383	890698.8	890698.8	105.37 %		08:26:34
3	Y 371.029	740624.5	740624.5	103.88 %		08:26:34
3	Ag 328.068†	100448.2	95172.4	493.64 ug/L	493.64 ppb	08:26:40
3	As 188.979†	925.8	900.7	511.77 ug/L	511.77 ppb	08:27:00
3	B 249.677†	19305.3	18768.9	528.29 ug/L	528.29 ppb	08:26:40
3	Ba 233.527†	55013.4	52197.7	497.44 ug/L	497.44 ppb	08:26:40
3	Be 313.107†	1229823.3	1171604.6	501.26 ug/L	501.26 ppb	08:26:34
3	Cd 226.502†	35518.8	33857.1	497.31 ug/L	497.31 ppb	08:26:40
3	Co 228.616†	20063.1	19094.2	502.76 ug/L	502.76 ppb	08:26:40
3	Cr 267.716†	38650.2	36610.3	498.82 ug/L	498.82 ppb	08:26:40
3	Cu 324.752†	162766.4	148945.2	493.44 ug/L	493.44 ppb	08:26:40
3	Mn 257.610†	393623.2	373176.5	496.52 ug/L	496.52 ppb	08:26:34
3	Mo 202.031†	5690.0	5387.1	485.23 ug/L	485.23 ppb	08:27:00
3	Ni 231.604†	16474.4	15562.2	502.50 ug/L	502.50 ppb	08:26:40
3	P 214.914†	3600.0	3215.8	2341.0 ug/L	2341.0 ppb	08:27:00
3	Pb 220.353†	3264.6	3147.1	493.66 ug/L	493.66 ppb	08:27:00
3	S 181.975 Axial†	594.1	533.9	966.53 ug/L	966.53 ppb	08:27:00
3	Sb 206.836†	1262.2	1172.5	517.04 ug/L	517.04 ppb	08:27:00
3	Se 196.026†	604.9	596.2	514.29 ug/L	514.29 ppb	08:27:00
3	Si 251.611†	69716.6	65644.8	2501.0 ug/L	2501.0 ppb	08:26:40
3	Sn 189.927†	2227.5	2110.3	486.93 ug/L	486.93 ppb	08:27:00
3	Ti 334.940†	291119.4	277328.5	482.25 ug/L	482.25 ppb	08:26:40
3	Tl 190.801†	1282.4	1246.1	495.01 ug/L	495.01 ppb	08:27:00
3	U 409.014†	15952.0	17082.2	503.73 ug/L	503.73 ppb	08:26:40
3	V 292.402†	64006.5	62095.2	503.87 ug/L	503.87 ppb	08:26:40
3	Zn 213.857†	43242.3	40434.2	493.69 ug/L	493.69 ppb	08:26:40
3	SiO2†	69936.9	65836.3	5331.8 ug/L	5331.8 ppb	08:27:15

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	889273.4	105.20 %	0.351			0.33%
Sc Radial	4764.0	105 %	0.5			0.50%
Y 371.029	739352.7	103.70 %	0.284			0.27%
Y RADIAL	5101.2	103.7 %	0.44			0.42%
Ag 328.068†	95613.5	495.93 ug/L	4.026	495.93 ppb	4.026	0.81%
QC value within limits for Ag 328.068 Recovery = 99.19%						
Al 396.153Radial†	4938.9	4862.8 ug/L	29.23	4862.8 ppb	29.23	0.60%
QC value within limits for Al 396.153Radial Recovery = 97.26%						
As 188.979†	909.7	516.85 ug/L	4.458	516.85 ppb	4.458	0.86%
QC value within limits for As 188.979 Recovery = 103.37%						
B 249.677†	18835.9	530.18 ug/L	3.289	530.18 ppb	3.289	0.62%
QC value within limits for B 249.677 Recovery = 106.04%						
Ba 233.527†	52252.0	497.96 ug/L	3.097	497.96 ppb	3.097	0.62%
QC value within limits for Ba 233.527 Recovery = 99.59%						
Be 313.107†	1172195.4	501.52 ug/L	0.498	501.52 ppb	0.498	0.10%
QC value within limits for Be 313.107 Recovery = 100.30%						
Ca 317.933Radial†	2655.3	5010.5 ug/L	39.81	5010.5 ppb	39.81	0.79%

QC value within limits for Ca 317.933 Radial Recovery = 100.21%

Cd	226.502†	33895.0	497.86 ug/L	3.712	497.86 ppb	3.712	0.75%
QC value within limits for Cd 226.502 Recovery = 99.57%							
Co	228.616†	19124.1	503.55 ug/L	3.099	503.55 ppb	3.099	0.62%
QC value within limits for Co 228.616 Recovery = 100.71%							
Cr	267.716†	36677.2	499.73 ug/L	3.812	499.73 ppb	3.812	0.76%
QC value within limits for Cr 267.716 Recovery = 99.95%							
Cu	324.752†	149928.8	496.70 ug/L	4.973	496.70 ppb	4.973	1.00%
QC value within limits for Cu 324.752 Recovery = 99.34%							
Fe	238.204 Radial†	447.5	5151.3 ug/L	41.92	5151.3 ppb	41.92	0.81%
QC value within limits for Fe 238.204 Radial Recovery = 103.03%							
K	766.490 Radial†	27842.0	5291.1 ug/L	32.42	5291.1 ppb	32.42	0.61%
QC value within limits for K 766.490 Radial Recovery = 105.82%							
Mg	279.077 IEC†	125.2	5198.2 ug/L	10.09	5198.2 ppb	10.09	0.19%
QC value within limits for Mg 279.077 IEC Recovery = 103.96%							
Mn	257.610†	373090.8	496.42 ug/L	0.207	496.42 ppb	0.207	0.04%
QC value within limits for Mn 257.610 Recovery = 99.28%							
Mo	202.031†	5430.5	489.14 ug/L	3.560	489.14 ppb	3.560	0.73%
QC value within limits for Mo 202.031 Recovery = 97.83%							
Na	589.592 Radial†	29609.9	10339 ug/L	46.4	10339 ppb	46.4	0.45%
QC value within limits for Na 589.592 Radial Recovery = 103.39%							
Ni	231.604†	15621.1	504.40 ug/L	4.445	504.40 ppb	4.445	0.88%
QC value within limits for Ni 231.604 Recovery = 100.88%							
P	214.914†	3230.7	2351.6 ug/L	17.05	2351.6 ppb	17.05	0.73%
QC value within limits for P 214.914 Recovery = 94.06%							
Pb	220.353†	3158.7	495.47 ug/L	2.434	495.47 ppb	2.434	0.49%
QC value within limits for Pb 220.353 Recovery = 99.09%							
S	181.975 Axial†	539.1	975.97 ug/L	8.498	975.97 ppb	8.498	0.87%
QC value within limits for S 181.975 Axial Recovery = 97.60%							
Sb	206.836†	1180.3	520.50 ug/L	3.165	520.50 ppb	3.165	0.61%
QC value within limits for Sb 206.836 Recovery = 104.10%							
Se	196.026†	595.1	513.52 ug/L	3.151	513.52 ppb	3.151	0.61%
QC value within limits for Se 196.026 Recovery = 102.70%							
Si	251.611†	65828.8	2508.0 ug/L	17.80	2508.0 ppb	17.80	0.71%
QC value within limits for Si 251.611 Recovery = 100.32%							
Sn	189.927†	2118.5	488.82 ug/L	1.718	488.82 ppb	1.718	0.35%
QC value within limits for Sn 189.927 Recovery = 97.76%							
Sr	421.552†	63982.3	501.25 ug/L	1.799	501.25 ppb	1.799	0.36%
QC value within limits for Sr 421.552 Recovery = 100.25%							
Ti	334.940†	278419.3	484.15 ug/L	3.823	484.15 ppb	3.823	0.79%
QC value within limits for Ti 334.940 Recovery = 96.83%							
Tl	190.801†	1261.0	500.89 ug/L	5.124	500.89 ppb	5.124	1.02%
QC value within limits for Tl 190.801 Recovery = 100.18%							
U	409.014†	17197.5	507.13 ug/L	2.967	507.13 ppb	2.967	0.59%
QC value within limits for U 409.014 Recovery = 101.43%							
V	292.402†	62315.1	505.69 ug/L	4.181	505.69 ppb	4.181	0.83%
QC value within limits for V 292.402 Recovery = 101.14%							
Zn	213.857†	40511.7	494.62 ug/L	3.960	494.62 ppb	3.960	0.80%
QC value within limits for Zn 213.857 Recovery = 98.92%							
SiO2†		65677.8	5318.8 ug/L	20.85	5318.8 ppb	20.85	0.39%
QC value within limits for SiO2 Recovery = 99.46%							

All analyte(s) passed QC.

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/22/2010 08:29:27
 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	4889.9	4889.9	107 %		08:31:20
1	Y RADIAL	5254.6	5254.6	106.9 %		08:31:20
1	Al 396.153Radial†	-79.7	-1.0	-1.0125 ug/L	-1.0125 ppb	08:31:40
1	Ca 317.933Radial†	26.3	6.1	11.498 ug/L	11.498 ppb	08:31:40
1	Fe 238.204 Radial†	7.3	0.1	1.3819 ug/L	1.3819 ppb	08:31:40
1	K 766.490 Radial†	3250.7	515.6	98.081 ug/L	98.081 ppb	08:31:20
1	Mg 279.077 IEC†	0.1	-0.3	-12.366 ug/L	-12.366 ppb	08:31:40
1	Na 589.592 Radial†	-586.3	172.0	60.044 ug/L	60.044 ppb	08:31:20
1	Sr 421.552†	35.8	-4.1	-0.0323 ug/L	-0.0323 ppb	08:31:20
1	Sc 361.383	900897.2	900897.2	106.58 %		08:32:37
1	Y 371.029	760094.2	760094.2	106.61 %		08:32:37
1	Ag 328.068†	170.2	3.0	0.0178 ug/L	0.0178 ppb	08:32:42
1	As 188.979†	-5.4	17.0	9.5962 ug/L	9.5962 ppb	08:33:02
1	B 249.677†	501.9	918.4	25.959 ug/L	25.959 ppb	08:33:02
1	Ba 233.527†	30.6	16.8	0.1622 ug/L	0.1622 ppb	08:33:02
1	Be 313.107†	-4300.5	422.2	0.1808 ug/L	0.1808 ppb	08:32:42
1	Cd 226.502†	-152.0	5.8	0.0860 ug/L	0.0860 ppb	08:33:02
1	Co 228.616†	-36.3	19.6	0.5149 ug/L	0.5149 ppb	08:33:02
1	Cr 267.716†	90.9	15.1	0.2061 ug/L	0.2061 ppb	08:33:02
1	Cu 324.752†	5757.5	-123.8	-0.4121 ug/L	-0.4121 ppb	08:32:42
1	Mn 257.610†	440.8	27.3	0.0369 ug/L	0.0369 ppb	08:33:02
1	Mo 202.031†	16.1	2.2	0.1993 ug/L	0.1993 ppb	08:33:02
1	Ni 231.604†	86.1	8.2	0.2634 ug/L	0.2634 ppb	08:33:02
1	P 214.914†	185.4	-26.7	-20.128 ug/L	-20.128 ppb	08:33:02
1	Pb 220.353†	-38.7	12.6	1.9684 ug/L	1.9684 ppb	08:33:02
1	S 181.975 Axial†	32.6	0.7	1.2593 ug/L	1.2593 ppb	08:33:02
1	Sb 206.836†	42.3	14.3	6.1083 ug/L	6.1083 ppb	08:33:02
1	Se 196.026†	-18.9	4.5	3.7231 ug/L	3.7231 ppb	08:33:02
1	Si 251.611†	652.8	93.7	3.5742 ug/L	3.5742 ppb	08:33:02
1	Sn 189.927†	10.0	5.7	1.3094 ug/L	1.3094 ppb	08:33:02
1	Ti 334.940†	-981.2	124.9	0.2183 ug/L	0.2183 ppb	08:32:42
1	Tl 190.801†	-25.7	5.0	1.9811 ug/L	1.9811 ppb	08:33:02
1	U 409.014†	-1943.0	120.0	3.5511 ug/L	3.5511 ppb	08:32:37
1	V 292.402†	-1280.2	149.5	1.2067 ug/L	1.2067 ppb	08:32:42
1	Zn 213.857†	710.3	62.2	0.7654 ug/L	0.7654 ppb	08:33:02
1	SiO2†	648.5	72.1	5.8498 ug/L	5.8498 ppb	08:34:23
2	Sc Radial	4914.6	4914.6	108 %		08:31:45
2	Y RADIAL	5282.1	5282.1	107.4 %		08:31:45
2	Al 396.153Radial†	-73.6	5.0	4.9510 ug/L	4.9510 ppb	08:32:05
2	Ca 317.933Radial†	24.9	4.7	8.9107 ug/L	8.9107 ppb	08:32:05
2	Fe 238.204 Radial†	8.4	1.1	13.134 ug/L	13.134 ppb	08:32:05
2	K 766.490 Radial†	3236.5	487.2	92.669 ug/L	92.669 ppb	08:31:45
2	Mg 279.077 IEC†	2.8	2.2	89.747 ug/L	89.747 ppb	08:32:05
2	Na 589.592 Radial†	-542.1	215.7	75.304 ug/L	75.304 ppb	08:31:45
2	Sr 421.552†	39.8	-0.6	-0.0049 ug/L	-0.0049 ppb	08:31:45
2	Sc 361.383	887340.0	887340.0	104.97 %		08:33:07
2	Y 371.029	747973.6	747973.6	104.91 %		08:33:07
2	Ag 328.068†	146.4	-17.2	-0.0843 ug/L	-0.0843 ppb	08:33:12
2	As 188.979†	-5.5	16.9	9.5029 ug/L	9.5029 ppb	08:33:32
2	B 249.677†	467.7	892.9	25.238 ug/L	25.238 ppb	08:33:32
2	Ba 233.527†	17.9	5.1	0.0516 ug/L	0.0516 ppb	08:33:32
2	Be 313.107†	-4256.2	402.7	0.1724 ug/L	0.1724 ppb	08:33:12
2	Cd 226.502†	-134.9	20.0	0.2930 ug/L	0.2930 ppb	08:33:32
2	Co 228.616†	-32.4	22.8	0.5978 ug/L	0.5978 ppb	08:33:32
2	Cr 267.716†	94.0	19.3	0.2639 ug/L	0.2639 ppb	08:33:32
2	Cu 324.752†	5729.1	-68.3	-0.2291 ug/L	-0.2291 ppb	08:33:12
2	Mn 257.610†	438.0	31.0	0.0388 ug/L	0.0388 ppb	08:33:32
2	Mo 202.031†	9.5	-3.8	-0.3433 ug/L	-0.3433 ppb	08:33:32
2	Ni 231.604†	75.5	-0.7	-0.0242 ug/L	-0.0242 ppb	08:33:32

2	P 214.914†	182.6	-26.7	-20.210 ug/L	-20.210 ppb	08:33:32
2	Pb 220.353†	-52.9	-1.4	-0.2275 ug/L	-0.2275 ppb	08:33:32
2	S 181.975 Axial†	35.8	4.2	7.5670 ug/L	7.5670 ppb	08:33:32
2	Sb 206.836†	37.2	10.0	4.2782 ug/L	4.2782 ppb	08:33:32
2	Se 196.026†	-15.8	7.1	5.9337 ug/L	5.9337 ppb	08:33:32
2	Si 251.611†	638.1	89.1	3.4065 ug/L	3.4065 ppb	08:33:32
2	Sn 189.927†	10.2	6.0	1.3841 ug/L	1.3841 ppb	08:33:32
2	Ti 334.940†	-986.8	105.5	0.1746 ug/L	0.1746 ppb	08:33:12
2	Tl 190.801†	-21.1	9.0	3.5410 ug/L	3.5410 ppb	08:33:32
2	U 409.014†	-1825.5	204.2	6.0389 ug/L	6.0389 ppb	08:33:07
2	V 292.402†	-1244.6	165.1	1.3283 ug/L	1.3283 ppb	08:33:12
2	Zn 213.857†	713.3	75.3	0.9259 ug/L	0.9259 ppb	08:33:32
2	SiO2†	646.3	79.3	6.4474 ug/L	6.4474 ppb	08:34:43
3	Sc Radial	4827.2	4827.2	106 %		08:32:10
3	Y RADIAL	5183.8	5183.8	105.4 %		08:32:10
3	Al 396.153Radial†	-61.9	14.8	14.570 ug/L	14.570 ppb	08:32:30
3	Ca 317.933Radial†	22.1	2.5	4.7350 ug/L	4.7350 ppb	08:32:30
3	Fe 238.204 Radial†	8.4	1.3	14.908 ug/L	14.908 ppb	08:32:30
3	K 766.490 Radial†	3179.3	487.6	92.740 ug/L	92.740 ppb	08:32:10
3	Mg 279.077 IEC†	1.5	1.0	40.899 ug/L	40.899 ppb	08:32:30
3	Na 589.592 Radial†	-533.1	215.1	75.093 ug/L	75.093 ppb	08:32:10
3	Sr 421.552†	36.8	-2.7	-0.0216 ug/L	-0.0216 ppb	08:32:10
3	Sc 361.383	883333.6	883333.6	104.50 %		08:33:37
3	Y 371.029	744262.8	744262.8	104.39 %		08:33:37
3	Ag 328.068†	232.2	65.5	0.3445 ug/L	0.3445 ppb	08:33:42
3	As 188.979†	-9.6	12.9	7.2768 ug/L	7.2768 ppb	08:34:02
3	B 249.677†	465.7	893.1	25.242 ug/L	25.242 ppb	08:34:02
3	Ba 233.527†	2.8	-9.3	-0.0848 ug/L	-0.0848 ppb	08:34:02
3	Be 313.107†	-4291.8	350.3	0.1501 ug/L	0.1501 ppb	08:33:42
3	Cd 226.502†	-138.9	15.6	0.2283 ug/L	0.2283 ppb	08:34:02
3	Co 228.616†	-44.2	11.3	0.2996 ug/L	0.2996 ppb	08:34:02
3	Cr 267.716†	82.1	8.3	0.1155 ug/L	0.1155 ppb	08:34:02
3	Cu 324.752†	5757.1	-16.8	-0.0567 ug/L	-0.0567 ppb	08:33:42
3	Mn 257.610†	414.5	10.4	0.0136 ug/L	0.0136 ppb	08:34:02
3	Mo 202.031†	23.6	9.7	0.8761 ug/L	0.8761 ppb	08:34:02
3	Ni 231.604†	98.4	21.5	0.6960 ug/L	0.6960 ppb	08:34:02
3	P 214.914†	189.1	-19.7	-14.923 ug/L	-14.923 ppb	08:34:02
3	Pb 220.353†	-54.1	-2.9	-0.4506 ug/L	-0.4506 ppb	08:34:02
3	S 181.975 Axial†	31.4	0.1	0.2563 ug/L	0.2563 ppb	08:34:02
3	Sb 206.836†	47.3	19.8	8.4591 ug/L	8.4591 ppb	08:34:02
3	Se 196.026†	-15.5	7.3	6.1613 ug/L	6.1613 ppb	08:34:02
3	Si 251.611†	630.4	84.4	3.2143 ug/L	3.2143 ppb	08:34:02
3	Sn 189.927†	5.5	1.5	0.3466 ug/L	0.3466 ppb	08:34:02
3	Ti 334.940†	-950.6	135.8	0.2320 ug/L	0.2320 ppb	08:33:42
3	Tl 190.801†	-26.3	4.0	1.5581 ug/L	1.5581 ppb	08:34:02
3	U 409.014†	-1910.5	114.9	3.3972 ug/L	3.3972 ppb	08:33:37
3	V 292.402†	-1249.2	155.3	1.2610 ug/L	1.2610 ppb	08:33:42
3	Zn 213.857†	718.0	82.8	1.0137 ug/L	1.0137 ppb	08:34:02
3	SiO2†	656.1	91.5	7.4072 ug/L	7.4072 ppb	08:35:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	890523.6	105.35 %		1.089			1.03%
Sc Radial	4877.3	107 %		1.0			0.92%
Y 371.029	750776.9	105.31 %		1.161			1.10%
Y RADIAL	5240.2	106.6 %		1.03			0.97%
Ag 328.068†	17.1	0.0927 ug/L		0.22401	0.0927 ppb	0.22401	241.68%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	6.2	6.1694 ug/L		7.86221	6.1694 ppb	7.86221	127.44%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	15.6	8.7920 ug/L		1.31303	8.7920 ppb	1.31303	14.93%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	901.5	25.479 ug/L		0.4154	25.479 ppb	0.4154	1.63%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	4.2	0.0430 ug/L		0.12373	0.0430 ppb	0.12373	287.74%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	391.8	0.1677 ug/L		0.01585	0.1677 ppb	0.01585	9.45%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.4	8.3813 ug/L		3.41248	8.3813 ppb	3.41248	40.72%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	13.8	0.2024 ug/L	0.10585	0.2024 ppb	0.10585	52.29%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	17.9	0.4708 ug/L	0.15393	0.4708 ppb	0.15393	32.70%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	14.3	0.1952 ug/L	0.07484	0.1952 ppb	0.07484	38.35%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-69.7	-0.2326 ug/L	0.17772	-0.2326 ppb	0.17772	76.39%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.9	9.8078 ug/L	7.35075	9.8078 ppb	7.35075	74.95%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	496.8	94.497 ug/L	3.1042	94.497 ppb	3.1042	3.29%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	0.9	39.427 ug/L	51.0726	39.427 ppb	51.0726	129.54%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	22.9	0.0298 ug/L	0.01403	0.0298 ppb	0.01403	47.08%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	2.7	0.2440 ug/L	0.61089	0.2440 ppb	0.61089	250.32%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	200.9	70.147 ug/L	8.7502	70.147 ppb	8.7502	12.47%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	9.7	0.3117 ug/L	0.36253	0.3117 ppb	0.36253	116.31%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-24.4	-18.420 ug/L	3.0286	-18.420 ppb	3.0286	16.44%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	2.7	0.4301 ug/L	1.33688	0.4301 ppb	1.33688	310.83%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	1.7	3.0275 ug/L	3.96317	3.0275 ppb	3.96317	130.90%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	14.7	6.2819 ug/L	2.09585	6.2819 ppb	2.09585	33.36%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	6.3	5.2727 ug/L	1.34682	5.2727 ppb	1.34682	25.54%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	89.1	3.3983 ug/L	0.18011	3.3983 ppb	0.18011	5.30%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	4.4	1.0134 ug/L	0.57865	1.0134 ppb	0.57865	57.10%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-2.5	-0.0196 ug/L	0.01382	-0.0196 ppb	0.01382	70.46%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	122.1	0.2083 ug/L	0.02996	0.2083 ppb	0.02996	14.38%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	6.0	2.3601 ug/L	1.04436	2.3601 ppb	1.04436	44.25%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	146.4	4.3291 ug/L	1.48277	4.3291 ppb	1.48277	34.25%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	156.6	1.2653 ug/L	0.06093	1.2653 ppb	0.06093	4.82%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	73.4	0.9017 ug/L	0.12594	0.9017 ppb	0.12594	13.97%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		81.0	6.5681 ug/L	0.78568	6.5681 ppb	0.78568	11.96%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/22/2010 08:44:40

Plasma On Time: 3/22/2010 06:16:18

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\032210.sif

Batch ID:

Results Data Set: 032210

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/22/2010 07:06:18

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 37

Sample ID: LR1

Date Collected: 3/22/2010 08:44:41

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4603.0	4603.0	101 %		08:46:35
1	Y RADIAL	4938.6	4938.6	100.4 %		08:46:35
1	Al 396.153Radial†	-87.6	-13.5	-12.079 ug/L	-12.079 ppb	08:46:55

1	Ca 317.933Radial†	32.5	13.8	25.985 ug/L	25.985 ppb	08:46:55
1	Fe 238.204 Radial†	33791.1	33409.9	383470 ug/L	383470 ppb	08:46:35
1	K 766.490 Radial†	2399.0	-138.0	-26.226 ug/L	-26.226 ppb	08:46:35
1	Mg 279.077 IEC†	8.5	8.0	-68.321 ug/L	-68.321 ppb	08:46:55
1	Na 589.592 Radial†	-716.3	9.4	3.2783 ug/L	3.2783 ppb	08:46:35
1	Sr 421.552†	96.7	58.1	0.4553 ug/L	0.4553 ppb	08:46:35
1	Sc 361.383	848131.6	848131.6	100.33 %		08:47:52
1	Y 371.029	711754.5	711754.5	99.833 %		08:47:52
1	Ag 328.068†	-23026.1	-23106.0	-0.3413 ug/L	-0.3413 ppb	08:47:52
1	As 188.979†	-173.7	-151.0	4.8018 ug/L	4.8018 ppb	08:48:12
1	B 249.677†	1778.5	2220.1	0.4304 ug/L	0.4304 ppb	08:47:52
1	Ba 233.527†	-1623.2	-1629.8	-3.7095 ug/L	-3.7095 ppb	08:47:52
1	Be 313.107†	-4305.1	166.6	0.0711 ug/L	0.0711 ppb	08:47:52
1	Cd 226.502†	2608.1	2747.9	0.7757 ug/L	0.7757 ppb	08:47:52
1	Co 228.616†	635.6	687.1	12.488 ug/L	12.488 ppb	08:48:12
1	Cr 267.716†	-460.0	-528.6	33.490 ug/L	33.490 ppb	08:48:12
1	Cu 324.752†	-1495.7	-7016.7	-2.9831 ug/L	-2.9831 ppb	08:47:52
1	Mn 257.610†	-32278.7	-32557.5	-5.4330 ug/L	-5.4330 ppb	08:47:52
1	Mo 202.031†	-275.0	-287.0	3.9446 ug/L	3.9446 ppb	08:47:52
1	Ni 231.604†	212.7	139.3	4.4913 ug/L	4.4913 ppb	08:48:12
1	P 214.914†	606.3	403.7	1.6326 ug/L	1.6326 ppb	08:48:12
1	Pb 220.353†	195.2	243.4	-16.539 ug/L	-16.539 ppb	08:48:12
1	S 181.975 Axial†	39.4	9.4	16.976 ug/L	16.976 ppb	08:48:12
1	Sb 206.836†	12.4	-13.0	-10.305 ug/L	-10.305 ppb	08:48:12
1	Se 196.026†	-1614.3	-1586.8	-219.31 ug/L	-219.31 ppb	08:48:12
1	Si 251.611†	-425.9	-943.3	-35.709 ug/L	-35.709 ppb	08:47:52
1	Sn 189.927†	-24.2	-27.9	-28.435 ug/L	-28.435 ppb	08:48:12
1	Ti 334.940†	-1044.2	4.8	-0.0400 ug/L	-0.0400 ppb	08:47:52
1	Tl 190.801†	-33.7	-4.5	-2.1645 ug/L	-2.1645 ppb	08:48:12
1	U 409.014†	152.6	2095.2	18.293 ug/L	18.293 ppb	08:47:52
1	V 292.402†	5240.3	6573.6	-3.4320 ug/L	-3.4320 ppb	08:47:52
1	Zn 213.857†	3654.1	3037.6	-19.948 ug/L	-19.948 ppb	08:48:12
1	SiO2†	-411.3	-946.3	-76.120 ug/L	-76.120 ppb	08:49:09
2	Sc Radial	4678.8	4678.8	103 %		08:47:00
2	Y RADIAL	5042.0	5042.0	102.5 %		08:47:00
2	Al 396.153Radial†	-94.4	-18.7	-17.209 ug/L	-17.209 ppb	08:47:20
2	Ca 317.933Radial†	32.5	13.2	24.937 ug/L	24.937 ppb	08:47:20
2	Fe 238.204 Radial†	34292.1	33356.1	382860 ug/L	382860 ppb	08:47:00
2	K 766.490 Radial†	2439.1	-137.4	-26.111 ug/L	-26.111 ppb	08:47:00
2	Mg 279.077 IEC†	9.9	9.2	-17.979 ug/L	-17.979 ppb	08:47:20
2	Na 589.592 Radial†	-693.7	42.8	14.957 ug/L	14.957 ppb	08:47:00
2	Sr 421.552†	68.3	29.0	0.2273 ug/L	0.2273 ppb	08:47:00
2	Sc 361.383	854298.5	854298.5	101.06 %		08:48:18
2	Y 371.029	716738.7	716738.7	100.53 %		08:48:18
2	Ag 328.068†	-23171.3	-23084.1	-0.4218 ug/L	-0.4218 ppb	08:48:18
2	As 188.979†	-164.2	-140.4	10.626 ug/L	10.626 ppb	08:48:38
2	B 249.677†	1861.4	2289.2	2.4866 ug/L	2.4866 ppb	08:48:18
2	Ba 233.527†	-1649.7	-1644.3	-3.8663 ug/L	-3.8663 ppb	08:48:18
2	Be 313.107†	-4199.9	301.7	0.1286 ug/L	0.1286 ppb	08:48:18
2	Cd 226.502†	2646.0	2766.7	1.1146 ug/L	1.1146 ppb	08:48:18
2	Co 228.616†	630.5	677.4	12.240 ug/L	12.240 ppb	08:48:38
2	Cr 267.716†	-513.6	-578.3	32.747 ug/L	32.747 ppb	08:48:38
2	Cu 324.752†	-1572.0	-7081.5	-3.2316 ug/L	-3.2316 ppb	08:48:18
2	Mn 257.610†	-32656.7	-32699.2	-5.6846 ug/L	-5.6846 ppb	08:48:18
2	Mo 202.031†	-283.3	-293.2	3.3383 ug/L	3.3383 ppb	08:48:18
2	Ni 231.604†	150.1	75.9	2.4406 ug/L	2.4406 ppb	08:48:38
2	P 214.914†	615.4	408.3	5.6760 ug/L	5.6760 ppb	08:48:38
2	Pb 220.353†	165.3	212.5	-21.295 ug/L	-21.295 ppb	08:48:38
2	S 181.975 Axial†	31.9	1.7	2.9937 ug/L	2.9937 ppb	08:48:38
2	Sb 206.836†	23.5	-2.2	-5.6622 ug/L	-5.6622 ppb	08:48:38
2	Se 196.026†	-1626.5	-1587.2	-221.43 ug/L	-221.43 ppb	08:48:38
2	Si 251.611†	-328.2	-843.6	-31.891 ug/L	-31.891 ppb	08:48:18
2	Sn 189.927†	-17.7	-21.2	-26.870 ug/L	-26.870 ppb	08:48:38
2	Ti 334.940†	-1105.5	-48.4	-0.1374 ug/L	-0.1374 ppb	08:48:18
2	Tl 190.801†	-19.3	10.0	3.5520 ug/L	3.5520 ppb	08:48:38
2	U 409.014†	230.4	2171.2	20.611 ug/L	20.611 ppb	08:48:18
2	V 292.402†	5255.6	6551.0	-3.5253 ug/L	-3.5253 ppb	08:48:18
2	Zn 213.857†	3660.6	3017.7	-20.087 ug/L	-20.087 ppb	08:48:38
2	SiO2†	-437.0	-968.7	-77.926 ug/L	-77.926 ppb	08:49:14
3	Sc Radial	4590.7	4590.7	101 %		08:47:25
3	Y RADIAL	4963.0	4963.0	100.9 %		08:47:25

3	Al 396.153Radial†	-83.9	-10.0	-8.6588 ug/L	-8.6588 ppb	08:47:45
3	Ca 317.933Radial†	26.0	7.4	13.974 ug/L	13.974 ppb	08:47:45
3	Fe 238.204 Radial†	33980.1	33687.3	386660 ug/L	386660 ppb	08:47:25
3	K 766.490 Radial†	2487.6	-43.8	-8.2979 ug/L	-8.2979 ppb	08:47:25
3	Mg 279.077 IEC†	6.7	6.2	-145.86 ug/L	-145.86 ppb	08:47:45
3	Na 589.592 Radial†	-690.8	32.8	11.457 ug/L	11.457 ppb	08:47:25
3	Sr 421.552†	80.7	42.6	0.3337 ug/L	0.3337 ppb	08:47:25
3	Sc 361.383	852490.4	852490.4	100.85 %		08:48:44
3	Y 371.029	715235.2	715235.2	100.32 %		08:48:44
3	Ag 328.068†	-23113.8	-23075.7	0.8031 ug/L	0.8031 ppb	08:48:44
3	As 188.979†	-157.3	-133.9	15.192 ug/L	15.192 ppb	08:49:04
3	B 249.677†	1798.9	2231.1	0.2276 ug/L	0.2276 ppb	08:48:44
3	Ba 233.527†	-1800.4	-1797.2	-5.2024 ug/L	-5.2024 ppb	08:48:44
3	Be 313.107†	-4230.7	262.3	0.1115 ug/L	0.1115 ppb	08:48:44
3	Cd 226.502†	2630.6	2756.9	0.5784 ug/L	0.5784 ppb	08:48:44
3	Co 228.616†	623.9	672.3	12.049 ug/L	12.049 ppb	08:49:04
3	Cr 267.716†	-458.9	-525.2	33.874 ug/L	33.874 ppb	08:49:04
3	Cu 324.752†	-1559.7	-7072.5	-2.9991 ug/L	-2.9991 ppb	08:48:44
3	Mn 257.610†	-32386.9	-32500.2	-5.0394 ug/L	-5.0394 ppb	08:48:44
3	Mo 202.031†	-279.8	-290.3	3.8922 ug/L	3.8922 ppb	08:48:44
3	Ni 231.604†	155.9	82.0	2.6386 ug/L	2.6386 ppb	08:49:04
3	P 214.914†	601.9	396.2	-6.5173 ug/L	-6.5173 ppb	08:49:04
3	Pb 220.353†	158.9	206.5	-22.767 ug/L	-22.767 ppb	08:49:04
3	S 181.975 Axial†	39.0	8.8	15.883 ug/L	15.883 ppb	08:49:04
3	Sb 206.836†	8.3	-17.2	-12.078 ug/L	-12.078 ppb	08:49:04
3	Se 196.026†	-1612.8	-1577.0	-202.04 ug/L	-202.04 ppb	08:49:04
3	Si 251.611†	-432.0	-947.2	-35.853 ug/L	-35.853 ppb	08:48:44
3	Sn 189.927†	-16.3	-19.9	-26.780 ug/L	-26.780 ppb	08:49:04
3	Ti 334.940†	-1161.1	-105.8	-0.2277 ug/L	-0.2277 ppb	08:48:44
3	Tl 190.801†	-36.3	-6.9	-3.1046 ug/L	-3.1046 ppb	08:49:04
3	U 409.014†	136.6	2078.6	17.437 ug/L	17.437 ppb	08:48:44
3	V 292.402†	5360.4	6665.9	-3.1622 ug/L	-3.1622 ppb	08:48:44
3	Zn 213.857†	3667.6	3032.4	-20.476 ug/L	-20.476 ppb	08:49:04
3	SiO2†	-469.0	-1001.4	-80.585 ug/L	-80.585 ppb	08:49:19

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	851640.2	100.75 %		0.375			0.37%
Sc Radial	4624.2	102 %		1.0			1.03%
Y 371.029	714576.2	100.23 %		0.359			0.36%
Y RADIAL	4981.2	101.3 %		1.10			1.09%
Ag 328.068†	-23088.6	0.0133 ug/L		0.68515	0.0133 ppb	0.68515	>999.9%
Al 396.153Radial†	-14.1	-12.649 ug/L		4.3033	-12.649 ppb	4.3033	34.02%
As 188.979†	-141.8	10.206 ug/L		5.2077	10.206 ppb	5.2077	51.02%
B 249.677†	2246.8	1.0482 ug/L		1.24978	1.0482 ppb	1.24978	119.23%
Ba 233.527†	-1690.4	-4.2594 ug/L		0.82037	-4.2594 ppb	0.82037	19.26%
Be 313.107†	243.5	0.1038 ug/L		0.02951	0.1038 ppb	0.02951	28.44%
Ca 317.933Radial†	11.5	21.632 ug/L		6.6528	21.632 ppb	6.6528	30.75%
Cd 226.502†	2757.1	0.8229 ug/L		0.27120	0.8229 ppb	0.27120	32.96%
Co 228.616†	678.9	12.259 ug/L		0.2201	12.259 ppb	0.2201	1.80%
Cr 267.716†	-544.1	33.370 ug/L		0.5731	33.370 ppb	0.5731	1.72%
Cu 324.752†	-7056.9	-3.0713 ug/L		0.13907	-3.0713 ppb	0.13907	4.53%
Fe 238.204 Radial†	33484.4	384330 ug/L		2039.8	384330 ppb	2039.8	0.53%
K 766.490 Radial†	-106.4	-20.212 ug/L		10.3177	-20.212 ppb	10.3177	51.05%
Mg 279.077 IEC†	7.8	-77.387 ug/L		64.4216	-77.387 ppb	64.4216	83.25%
Mn 257.610†	-32585.6	-5.3857 ug/L		0.32518	-5.3857 ppb	0.32518	6.04%
Mo 202.031†	-290.2	3.7250 ug/L		0.33593	3.7250 ppb	0.33593	9.02%
Na 589.592 Radial†	28.3	9.8973 ug/L		5.99333	9.8973 ppb	5.99333	60.56%
Ni 231.604†	99.1	3.1902 ug/L		1.13117	3.1902 ppb	1.13117	35.46%
P 214.914†	402.7	0.2638 ug/L		6.21081	0.2638 ppb	6.21081	>999.9%
Pb 220.353†	220.8	-20.200 ug/L		3.2548	-20.200 ppb	3.2548	16.11%
S 181.975 Axial†	6.6	11.951 ug/L		7.7762	11.951 ppb	7.7762	65.07%
Sb 206.836†	-10.8	-9.3486 ug/L		3.31334	-9.3486 ppb	3.31334	35.44%
Se 196.026†	-1583.6	-214.26 ug/L		10.638	-214.26 ppb	10.638	4.96%
Si 251.611†	-911.4	-34.484 ug/L		2.2469	-34.484 ppb	2.2469	6.52%
Sn 189.927†	-23.0	-27.362 ug/L		0.9309	-27.362 ppb	0.9309	3.40%
Sr 421.552†	43.3	0.3388 ug/L		0.11408	0.3388 ppb	0.11408	33.68%
Ti 334.940†	-49.8	-0.1351 ug/L		0.09387	-0.1351 ppb	0.09387	69.51%
Tl 190.801†	-0.5	-0.5724 ug/L		3.60261	-0.5724 ppb	3.60261	629.42%

U 409.014†	2115.0	18.780 ug/L	1.6423	18.780 ppb	1.6423	8.75%
V 292.402†	6596.8	-3.3732 ug/L	0.18855	-3.3732 ppb	0.18855	5.59%
Zn 213.857†	3029.2	-20.170 ug/L	0.2737	-20.170 ppb	0.2737	1.36%
SiO2†	-972.1	-78.211 ug/L	2.2460	-78.211 ppb	2.2460	2.87%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/22/2010 08:51:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4703.6	4703.6	103 %			08:53:24
1	Y RADIAL	5037.2	5037.2	102.4 %			08:53:24
1	Al 396.153Radial†	5018.4	4929.8	4853.7 ug/L		4853.7 ppb	08:53:24
1	Ca 317.933Radial†	2742.3	2635.6	4973.3 ug/L		4973.3 ppb	08:53:44
1	Fe 238.204 Radial†	468.9	447.1	5147.2 ug/L		5147.2 ppb	08:53:44
1	K 766.490 Radial†	29898.6	26424.7	5021.5 ug/L		5021.5 ppb	08:53:24
1	Mg 279.077 IEC†	133.4	128.7	5343.2 ug/L		5343.2 ppb	08:53:44
1	Na 589.592 Radial†	29443.2	29212.2	10200 ug/L		10200 ppb	08:53:24
1	Sr 421.552†	65496.6	63348.6	496.29 ug/L		496.29 ppb	08:53:24
1	Sc 361.383	874160.3	874160.3	103.41 %			08:54:41
1	Y 371.029	726896.7	726896.7	101.96 %			08:54:41
1	Ag 328.068†	99035.8	95610.2	495.91 ug/L		495.91 ppb	08:54:46
1	As 188.979†	901.2	893.5	507.72 ug/L		507.72 ppb	08:55:06
1	B 249.677†	18065.7	17916.8	504.19 ug/L		504.19 ppb	08:54:46
1	Ba 233.527†	54380.1	52573.1	501.01 ug/L		501.01 ppb	08:54:46
1	Be 313.107†	1215066.4	1179416.4	504.60 ug/L		504.60 ppb	08:54:41
1	Cd 226.502†	35163.3	34151.1	501.63 ug/L		501.63 ppb	08:54:46
1	Co 228.616†	19880.9	19278.3	507.61 ug/L		507.61 ppb	08:54:46
1	Cr 267.716†	38222.1	36890.3	502.63 ug/L		502.63 ppb	08:54:46
1	Cu 324.752†	159702.9	148905.4	493.30 ug/L		493.30 ppb	08:54:46
1	Mn 257.610†	388292.9	375089.7	499.07 ug/L		499.07 ppb	08:54:41
1	Mo 202.031†	5635.7	5436.8	489.70 ug/L		489.70 ppb	08:55:06
1	Ni 231.604†	16341.7	15729.7	507.91 ug/L		507.91 ppb	08:54:46
1	P 214.914†	3550.4	3232.5	2353.7 ug/L		2353.7 ppb	08:55:06
1	Pb 220.353†	3237.8	3179.8	498.78 ug/L		498.78 ppb	08:55:06
1	S 181.975 Axial†	580.7	531.7	962.46 ug/L		962.46 ppb	08:55:06
1	Sb 206.836†	1213.8	1148.3	506.85 ug/L		506.85 ppb	08:55:06
1	Se 196.026†	598.6	601.0	518.44 ug/L		518.44 ppb	08:55:06
1	Si 251.611†	68356.2	65581.1	2498.5 ug/L		2498.5 ppb	08:54:46
1	Sn 189.927†	2186.6	2110.7	487.02 ug/L		487.02 ppb	08:55:06
1	Ti 334.940†	286564.3	278150.8	483.67 ug/L		483.67 ppb	08:54:46
1	Tl 190.801†	1269.2	1256.4	499.06 ug/L		499.06 ppb	08:55:06
1	U 409.014†	15864.7	17284.2	509.69 ug/L		509.69 ppb	08:54:46
1	V 292.402†	63149.5	62415.8	506.51 ug/L		506.51 ppb	08:54:46
1	Zn 213.857†	42662.5	40650.0	496.31 ug/L		496.31 ppb	08:54:46
1	SiO2†	68438.7	65643.4	5316.0 ug/L		5316.0 ppb	08:56:14
2	Sc Radial	4579.0	4579.0	101 %			08:53:49
2	Y RADIAL	4892.1	4892.1	99.49 %			08:53:49
2	Al 396.153Radial†	4879.4	4923.8	4847.9 ug/L		4847.9 ppb	08:53:49
2	Ca 317.933Radial†	2740.1	2705.6	5105.5 ug/L		5105.5 ppb	08:54:09
2	Fe 238.204 Radial†	463.2	453.9	5224.4 ug/L		5224.4 ppb	08:54:09
2	K 766.490 Radial†	29243.3	26560.4	5047.2 ug/L		5047.2 ppb	08:53:49
2	Mg 279.077 IEC†	126.3	125.1	5195.2 ug/L		5195.2 ppb	08:54:09
2	Na 589.592 Radial†	28700.6	29249.1	10213 ug/L		10213 ppb	08:53:49
2	Sr 421.552†	63855.1	63441.1	497.01 ug/L		497.01 ppb	08:53:49
2	Sc 361.383	876457.9	876457.9	103.69 %			08:55:12
2	Y 371.029	730362.1	730362.1	102.44 %			08:55:12
2	Ag 328.068†	98626.2	94964.0	492.59 ug/L		492.59 ppb	08:55:17
2	As 188.979†	897.9	888.1	504.66 ug/L		504.66 ppb	08:55:37
2	B 249.677†	18117.2	17920.7	504.30 ug/L		504.30 ppb	08:55:17
2	Ba 233.527†	53984.4	52053.6	496.07 ug/L		496.07 ppb	08:55:17
2	Be 313.107†	1218887.0	1180021.1	504.85 ug/L		504.85 ppb	08:55:12
2	Cd 226.502†	34837.9	33748.1	495.70 ug/L		495.70 ppb	08:55:17
2	Co 228.616†	19685.4	19039.3	501.33 ug/L		501.33 ppb	08:55:17
2	Cr 267.716†	37922.3	36504.2	497.39 ug/L		497.39 ppb	08:55:17
2	Cu 324.752†	159110.8	147929.4	490.08 ug/L		490.08 ppb	08:55:17
2	Mn 257.610†	388340.0	374150.8	497.83 ug/L		497.83 ppb	08:55:12
2	Mo 202.031†	5630.8	5417.8	488.00 ug/L		488.00 ppb	08:55:37
2	Ni 231.604†	16196.3	15548.0	502.04 ug/L		502.04 ppb	08:55:17

2	P 214.914†	3553.1	3226.1	2349.4 ug/L	2349.4 ppb	08:55:37
2	Pb 220.353†	3223.7	3158.0	495.35 ug/L	495.35 ppb	08:55:37
2	S 181.975 Axial†	588.1	537.3	972.72 ug/L	972.72 ppb	08:55:37
2	Sb 206.836†	1206.2	1137.9	502.34 ug/L	502.34 ppb	08:55:37
2	Se 196.026†	593.9	594.9	513.58 ug/L	513.58 ppb	08:55:37
2	Si 251.611†	67921.6	64988.6	2475.9 ug/L	2475.9 ppb	08:55:17
2	Sn 189.927†	2187.6	2106.1	485.99 ug/L	485.99 ppb	08:55:37
2	Ti 334.940†	284832.2	275753.9	479.53 ug/L	479.53 ppb	08:55:17
2	Tl 190.801†	1264.2	1248.3	495.88 ug/L	495.88 ppb	08:55:37
2	U 409.014†	15735.6	17119.5	504.82 ug/L	504.82 ppb	08:55:17
2	V 292.402†	62632.9	61757.4	501.19 ug/L	501.19 ppb	08:55:17
2	Zn 213.857†	42299.1	40191.3	490.69 ug/L	490.69 ppb	08:55:17
2	SiO2†	68128.4	65170.5	5277.6 ug/L	5277.6 ppb	08:56:19
3	Sc Radial	4733.4	4733.4	104 %		08:54:14
3	Y RADIAL	5068.0	5068.0	103.1 %		08:54:14
3	Al 396.153Radial†	5040.5	4920.5	4844.3 ug/L	4844.3 ppb	08:54:14
3	Ca 317.933Radial†	2732.2	2609.1	4923.3 ug/L	4923.3 ppb	08:54:34
3	Fe 238.204 Radial†	467.5	442.9	5099.3 ug/L	5099.3 ppb	08:54:34
3	K 766.490 Radial†	30274.1	26603.3	5055.4 ug/L	5055.4 ppb	08:54:14
3	Mg 279.077 IEC†	128.0	122.7	5094.1 ug/L	5094.1 ppb	08:54:34
3	Na 589.592 Radial†	29848.1	29421.8	10273 ug/L	10273 ppb	08:54:14
3	Sr 421.552†	66167.3	63593.8	498.21 ug/L	498.21 ppb	08:54:14
3	Sc 361.383	869832.0	869832.0	102.90 %		08:55:43
3	Y 371.029	724240.6	724240.6	101.58 %		08:55:43
3	Ag 328.068†	100045.1	97067.5	503.43 ug/L	503.43 ppb	08:55:48
3	As 188.979†	898.8	895.5	508.91 ug/L	508.91 ppb	08:56:08
3	B 249.677†	18449.5	18376.7	517.18 ug/L	517.18 ppb	08:55:48
3	Ba 233.527†	54805.4	53248.1	507.45 ug/L	507.45 ppb	08:55:48
3	Be 313.107†	1208151.4	1178543.0	504.25 ug/L	504.25 ppb	08:55:43
3	Cd 226.502†	35369.2	34520.4	507.06 ug/L	507.06 ppb	08:55:48
3	Co 228.616†	20006.0	19495.6	513.33 ug/L	513.33 ppb	08:55:48
3	Cr 267.716†	38440.4	37286.3	508.02 ug/L	508.02 ppb	08:55:48
3	Cu 324.752†	161960.9	151868.1	503.12 ug/L	503.12 ppb	08:55:48
3	Mn 257.610†	385607.7	374348.6	498.09 ug/L	498.09 ppb	08:55:43
3	Mo 202.031†	5646.0	5473.9	493.04 ug/L	493.04 ppb	08:56:08
3	Ni 231.604†	16468.9	15932.0	514.44 ug/L	514.44 ppb	08:55:48
3	P 214.914†	3553.3	3252.4	2366.9 ug/L	2366.9 ppb	08:56:08
3	Pb 220.353†	3218.3	3176.4	498.25 ug/L	498.25 ppb	08:56:08
3	S 181.975 Axial†	586.0	539.6	976.81 ug/L	976.81 ppb	08:56:08
3	Sb 206.836†	1200.2	1140.9	503.88 ug/L	503.88 ppb	08:56:08
3	Se 196.026†	589.6	595.1	513.38 ug/L	513.38 ppb	08:56:08
3	Si 251.611†	69208.3	66738.1	2542.7 ug/L	2542.7 ppb	08:55:48
3	Sn 189.927†	2209.7	2143.6	494.61 ug/L	494.61 ppb	08:56:08
3	Ti 334.940†	289955.7	282825.4	491.81 ug/L	491.81 ppb	08:55:48
3	Tl 190.801†	1270.9	1264.1	502.13 ug/L	502.13 ppb	08:56:08
3	U 409.014†	15894.5	17389.5	512.80 ug/L	512.80 ppb	08:55:48
3	V 292.402†	63747.8	63301.0	513.64 ug/L	513.64 ppb	08:55:48
3	Zn 213.857†	43067.4	41248.8	503.64 ug/L	503.64 ppb	08:55:48
3	SiO2†	68797.9	66321.7	5371.0 ug/L	5371.0 ppb	08:56:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	873483.4	103.33 %	0.398			0.39%
Sc Radial	4672.0	103 %	1.8			1.75%
Y 371.029	727166.5	101.99 %	0.431			0.42%
Y RADIAL	4999.1	101.7 %	1.91			1.88%
Ag 328.068†	95880.6	497.31 ug/L	5.558	497.31 ppb	5.558	1.12%
QC value within limits for Ag 328.068 Recovery = 99.46%						
Al 396.153Radial†	4924.7	4848.6 ug/L	4.74	4848.6 ppb	4.74	0.10%
QC value within limits for Al 396.153Radial Recovery = 96.97%						
As 188.979†	892.4	507.10 ug/L	2.194	507.10 ppb	2.194	0.43%
QC value within limits for As 188.979 Recovery = 101.42%						
B 249.677†	18071.4	508.55 ug/L	7.468	508.55 ppb	7.468	1.47%
QC value within limits for B 249.677 Recovery = 101.71%						
Ba 233.527†	52624.9	501.51 ug/L	5.705	501.51 ppb	5.705	1.14%
QC value within limits for Ba 233.527 Recovery = 100.30%						
Be 313.107†	1179326.8	504.57 ug/L	0.303	504.57 ppb	0.303	0.06%
QC value within limits for Be 313.107 Recovery = 100.91%						
Ca 317.933Radial†	2650.1	5000.7 ug/L	94.12	5000.7 ppb	94.12	1.88%

QC value within limits for Ca 317.933 Radial Recovery = 100.01%

Cd 226.502†	34139.9	501.46 ug/L	5.686	501.46 ppb	5.686	1.13%
QC value within limits for Cd 226.502 Recovery = 100.29%						
Co 228.616†	19271.1	507.42 ug/L	6.002	507.42 ppb	6.002	1.18%
QC value within limits for Co 228.616 Recovery = 101.48%						
Cr 267.716†	36893.6	502.68 ug/L	5.318	502.68 ppb	5.318	1.06%
QC value within limits for Cr 267.716 Recovery = 100.54%						
Cu 324.752†	149567.6	495.50 ug/L	6.790	495.50 ppb	6.790	1.37%
QC value within limits for Cu 324.752 Recovery = 99.10%						
Fe 238.204 Radial†	448.0	5157.0 ug/L	63.11	5157.0 ppb	63.11	1.22%
QC value within limits for Fe 238.204 Radial Recovery = 103.14%						
K 766.490 Radial†	26529.5	5041.4 ug/L	17.72	5041.4 ppb	17.72	0.35%
QC value within limits for K 766.490 Radial Recovery = 100.83%						
Mg 279.077 IEC†	125.5	5210.8 ug/L	125.28	5210.8 ppb	125.28	2.40%
QC value within limits for Mg 279.077 IEC Recovery = 104.22%						
Mn 257.610†	374529.7	498.33 ug/L	0.652	498.33 ppb	0.652	0.13%
QC value within limits for Mn 257.610 Recovery = 99.67%						
Mo 202.031†	5442.8	490.25 ug/L	2.565	490.25 ppb	2.565	0.52%
QC value within limits for Mo 202.031 Recovery = 98.05%						
Na 589.592 Radial†	29294.4	10229 ug/L	39.1	10229 ppb	39.1	0.38%
QC value within limits for Na 589.592 Radial Recovery = 102.29%						
Ni 231.604†	15736.5	508.13 ug/L	6.203	508.13 ppb	6.203	1.22%
QC value within limits for Ni 231.604 Recovery = 101.63%						
P 214.914†	3237.0	2356.7 ug/L	9.13	2356.7 ppb	9.13	0.39%
QC value within limits for P 214.914 Recovery = 94.27%						
Pb 220.353†	3171.4	497.46 ug/L	1.848	497.46 ppb	1.848	0.37%
QC value within limits for Pb 220.353 Recovery = 99.49%						
S 181.975 Axial†	536.2	970.66 ug/L	7.389	970.66 ppb	7.389	0.76%
QC value within limits for S 181.975 Axial Recovery = 97.07%						
Sb 206.836†	1142.4	504.36 ug/L	2.290	504.36 ppb	2.290	0.45%
QC value within limits for Sb 206.836 Recovery = 100.87%						
Se 196.026†	597.0	515.13 ug/L	2.866	515.13 ppb	2.866	0.56%
QC value within limits for Se 196.026 Recovery = 103.03%						
Si 251.611†	65769.2	2505.7 ug/L	33.95	2505.7 ppb	33.95	1.35%
QC value within limits for Si 251.611 Recovery = 100.23%						
Sn 189.927†	2120.1	489.21 ug/L	4.708	489.21 ppb	4.708	0.96%
QC value within limits for Sn 189.927 Recovery = 97.84%						
Sr 421.552†	63461.1	497.17 ug/L	0.971	497.17 ppb	0.971	0.20%
QC value within limits for Sr 421.552 Recovery = 99.43%						
Ti 334.940†	278910.0	485.00 ug/L	6.247	485.00 ppb	6.247	1.29%
QC value within limits for Ti 334.940 Recovery = 97.00%						
Tl 190.801†	1256.3	499.02 ug/L	3.125	499.02 ppb	3.125	0.63%
QC value within limits for Tl 190.801 Recovery = 99.80%						
U 409.014†	17264.4	509.10 ug/L	4.022	509.10 ppb	4.022	0.79%
QC value within limits for U 409.014 Recovery = 101.82%						
V 292.402†	62491.4	507.11 ug/L	6.247	507.11 ppb	6.247	1.23%
QC value within limits for V 292.402 Recovery = 101.42%						
Zn 213.857†	40696.7	496.88 ug/L	6.496	496.88 ppb	6.496	1.31%
QC value within limits for Zn 213.857 Recovery = 99.38%						
SiO2†	65711.9	5321.5 ug/L	46.91	5321.5 ppb	46.91	0.88%
QC value within limits for SiO2 Recovery = 99.51%						

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 08:58:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4428.7	4428.7	97.3 %		09:00:48
1	Y RADIAL	5076.2	5076.2	103.2 %		09:00:27
1	Al 396.153Radial†	-77.1	-6.1	-6.0658 ug/L	-6.0658 ppb	09:00:48
1	Ca 317.933Radial†	29.1	11.5	21.693 ug/L	21.693 ppb	09:00:48
1	Fe 238.204 Radial†	8.7	2.3	26.248 ug/L	26.248 ppb	09:00:48
1	K 766.490 Radial†	2748.9	315.0	59.917 ug/L	59.917 ppb	09:00:27
1	Mg 279.077 IEC†	0.3	-0.1	-2.5761 ug/L	-2.5761 ppb	09:00:48
1	Na 589.592 Radial†	-688.2	10.4	3.6278 ug/L	3.6278 ppb	09:00:27
1	Sr 421.552†	49.4	13.3	0.1042 ug/L	0.1042 ppb	09:00:27
1	Sc 361.383	866849.0	866849.0	102.55 %		09:01:44
1	Y 371.029	732257.7	732257.7	102.71 %		09:01:44
1	Ag 328.068†	182.1	20.9	0.1155 ug/L	0.1155 ppb	09:01:44
1	As 188.979†	-17.9	4.7	2.6313 ug/L	2.6313 ppb	09:02:04
1	B 249.677†	111.6	556.3	15.719 ug/L	15.719 ppb	09:02:04
1	Ba 233.527†	18.3	5.9	0.0575 ug/L	0.0575 ppb	09:02:04
1	Be 313.107†	-4322.3	242.5	0.1036 ug/L	0.1036 ppb	09:01:44
1	Cd 226.502†	-161.0	-8.5	-0.1282 ug/L	-0.1282 ppb	09:02:04
1	Co 228.616†	-40.3	14.3	0.3779 ug/L	0.3779 ppb	09:02:04
1	Cr 267.716†	64.0	-7.8	-0.1029 ug/L	-0.1029 ppb	09:02:04
1	Cu 324.752†	5552.9	-111.1	-0.3672 ug/L	-0.3672 ppb	09:01:44
1	Mn 257.610†	418.7	22.0	0.0320 ug/L	0.0320 ppb	09:02:04
1	Mo 202.031†	16.6	3.3	0.3001 ug/L	0.3001 ppb	09:02:04
1	Ni 231.604†	73.5	-1.0	-0.0318 ug/L	-0.0318 ppb	09:02:04
1	P 214.914†	173.8	-31.2	-23.596 ug/L	-23.596 ppb	09:02:04
1	Pb 220.353†	-45.2	4.9	0.7585 ug/L	0.7585 ppb	09:02:04
1	S 181.975 Axial†	33.4	2.6	4.7732 ug/L	4.7732 ppb	09:02:04
1	Sb 206.836†	31.5	5.3	2.2823 ug/L	2.2823 ppb	09:02:04
1	Se 196.026†	-18.7	3.9	3.3276 ug/L	3.3276 ppb	09:02:04
1	Si 251.611†	568.0	35.1	1.3361 ug/L	1.3361 ppb	09:02:04
1	Sn 189.927†	13.5	9.4	2.1737 ug/L	2.1737 ppb	09:02:04
1	Ti 334.940†	-1037.4	33.9	0.0618 ug/L	0.0618 ppb	09:01:44
1	Tl 190.801†	-25.8	3.9	1.5374 ug/L	1.5374 ppb	09:02:04
1	U 409.014†	-1965.0	27.0	0.7972 ug/L	0.7972 ppb	09:01:44
1	V 292.402†	-1368.4	16.3	0.1327 ug/L	0.1327 ppb	09:01:44
1	Zn 213.857†	694.3	72.7	0.8933 ug/L	0.8933 ppb	09:02:04
1	SiO2†	569.8	19.3	1.5624 ug/L	1.5624 ppb	09:03:15
2	Sc Radial	4443.7	4443.7	97.6 %		09:01:13
2	Y RADIAL	4924.7	4924.7	100.2 %		09:00:53
2	Al 396.153Radial†	-81.1	-9.9	-9.7495 ug/L	-9.7495 ppb	09:01:13
2	Ca 317.933Radial†	26.3	8.6	16.205 ug/L	16.205 ppb	09:01:13
2	Fe 238.204 Radial†	9.7	3.3	38.379 ug/L	38.379 ppb	09:01:13
2	K 766.490 Radial†	2815.4	373.6	71.075 ug/L	71.075 ppb	09:00:53
2	Mg 279.077 IEC†	0.4	0.0	1.7465 ug/L	1.7465 ppb	09:01:13
2	Na 589.592 Radial†	-685.4	15.7	5.4826 ug/L	5.4826 ppb	09:00:53
2	Sr 421.552†	-13.3	-51.0	-0.4000 ug/L	-0.4000 ppb	09:00:53
2	Sc 361.383	853683.8	853683.8	100.99 %		09:02:10
2	Y 371.029	721975.1	721975.1	101.27 %		09:02:10
2	Ag 328.068†	186.7	28.2	0.1557 ug/L	0.1557 ppb	09:02:10
2	As 188.979†	-17.3	4.9	2.7861 ug/L	2.7861 ppb	09:02:30
2	B 249.677†	123.2	569.4	16.088 ug/L	16.088 ppb	09:02:30
2	Ba 233.527†	27.3	15.1	0.1452 ug/L	0.1452 ppb	09:02:30
2	Be 313.107†	-4262.2	236.9	0.1010 ug/L	0.1010 ppb	09:02:10
2	Cd 226.502†	-145.1	4.8	0.0667 ug/L	0.0667 ppb	09:02:30
2	Co 228.616†	-44.0	10.0	0.2632 ug/L	0.2632 ppb	09:02:30
2	Cr 267.716†	86.1	15.1	0.2079 ug/L	0.2079 ppb	09:02:30
2	Cu 324.752†	5616.1	34.9	0.1156 ug/L	0.1156 ppb	09:02:10
2	Mn 257.610†	422.6	32.2	0.0465 ug/L	0.0465 ppb	09:02:30
2	Mo 202.031†	8.7	-4.3	-0.3824 ug/L	-0.3824 ppb	09:02:30
2	Ni 231.604†	75.2	1.8	0.0584 ug/L	0.0584 ppb	09:02:30

2	P 214.914†	190.1	-12.4	-9.4654 ug/L	-9.4654 ppb	09:02:30
2	Pb 220.353†	-50.4	-1.0	-0.1619 ug/L	-0.1619 ppb	09:02:30
2	S 181.975 Axial†	31.9	1.7	3.0089 ug/L	3.0089 ppb	09:02:30
2	Sb 206.836†	33.8	8.0	3.4272 ug/L	3.4272 ppb	09:02:30
2	Se 196.026†	-18.9	3.5	3.0087 ug/L	3.0087 ppb	09:02:30
2	Si 251.611†	554.7	30.4	1.1673 ug/L	1.1673 ppb	09:02:30
2	Sn 189.927†	12.2	8.4	1.9265 ug/L	1.9265 ppb	09:02:30
2	Ti 334.940†	-1093.8	-37.5	-0.0650 ug/L	-0.0650 ppb	09:02:10
2	Tl 190.801†	-19.1	10.2	4.0159 ug/L	4.0159 ppb	09:02:30
2	U 409.014†	-1828.5	132.6	3.9180 ug/L	3.9180 ppb	09:02:10
2	V 292.402†	-1308.0	55.6	0.4416 ug/L	0.4416 ppb	09:02:10
2	Zn 213.857†	684.2	73.2	0.8958 ug/L	0.8958 ppb	09:02:30
2	SiO2†	576.4	34.4	2.8003 ug/L	2.8003 ppb	09:03:35
3	Sc Radial	4427.1	4427.1	97.3 %		09:01:38
3	Y RADIAL	5013.4	5013.4	102.0 %		09:01:18
3	Al 396.153Radial†	-73.7	-2.6	-2.5842 ug/L	-2.5842 ppb	09:01:38
3	Ca 317.933Radial†	26.7	9.1	17.098 ug/L	17.098 ppb	09:01:38
3	Fe 238.204 Radial†	7.9	1.5	17.411 ug/L	17.411 ppb	09:01:38
3	K 766.490 Radial†	2775.6	343.4	65.344 ug/L	65.344 ppb	09:01:18
3	Mg 279.077 IEC†	2.4	2.0	83.707 ug/L	83.707 ppb	09:01:38
3	Na 589.592 Radial†	-699.8	-1.8	-0.6143 ug/L	-0.6143 ppb	09:01:18
3	Sr 421.552†	33.3	-3.2	-0.0250 ug/L	-0.0250 ppb	09:01:18
3	Sc 361.383	864838.4	864838.4	102.31 %		09:02:35
3	Y 371.029	731262.7	731262.7	102.57 %		09:02:35
3	Ag 328.068†	198.3	37.1	0.1955 ug/L	0.1955 ppb	09:02:35
3	As 188.979†	-16.2	6.3	3.5395 ug/L	3.5395 ppb	09:02:55
3	B 249.677†	95.2	540.5	15.275 ug/L	15.275 ppb	09:02:55
3	Ba 233.527†	17.8	5.5	0.0539 ug/L	0.0539 ppb	09:02:55
3	Be 313.107†	-4292.5	261.8	0.1117 ug/L	0.1117 ppb	09:02:35
3	Cd 226.502†	-171.8	-19.4	-0.2861 ug/L	-0.2861 ppb	09:02:55
3	Co 228.616†	-45.5	9.2	0.2394 ug/L	0.2394 ppb	09:02:55
3	Cr 267.716†	90.4	18.1	0.2477 ug/L	0.2477 ppb	09:02:55
3	Cu 324.752†	5653.8	0.1	-0.0010 ug/L	-0.0010 ppb	09:02:35
3	Mn 257.610†	418.9	23.2	0.0291 ug/L	0.0291 ppb	09:02:55
3	Mo 202.031†	4.7	-8.4	-0.7507 ug/L	-0.7507 ppb	09:02:55
3	Ni 231.604†	78.2	3.8	0.1217 ug/L	0.1217 ppb	09:02:55
3	P 214.914†	180.1	-24.6	-18.661 ug/L	-18.661 ppb	09:02:55
3	Pb 220.353†	-60.7	-10.4	-1.6338 ug/L	-1.6338 ppb	09:02:55
3	S 181.975 Axial†	32.4	1.8	3.2802 ug/L	3.2802 ppb	09:02:55
3	Sb 206.836†	32.5	6.3	2.7013 ug/L	2.7013 ppb	09:02:55
3	Se 196.026†	-24.1	-1.4	-1.1215 ug/L	-1.1215 ppb	09:02:55
3	Si 251.611†	573.8	42.1	1.6154 ug/L	1.6154 ppb	09:02:55
3	Sn 189.927†	9.5	5.6	1.2918 ug/L	1.2918 ppb	09:02:55
3	Ti 334.940†	-1089.8	-19.7	-0.0406 ug/L	-0.0406 ppb	09:02:35
3	Tl 190.801†	-26.9	2.8	1.0897 ug/L	1.0897 ppb	09:02:55
3	U 409.014†	-1854.5	130.5	3.8588 ug/L	3.8588 ppb	09:02:35
3	V 292.402†	-1312.1	68.3	0.5425 ug/L	0.5425 ppb	09:02:35
3	Zn 213.857†	690.1	70.2	0.8618 ug/L	0.8618 ppb	09:02:55
3	SiO2†	590.7	41.0	3.3495 ug/L	3.3495 ppb	09:03:55

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	861790.4	101.95 %		0.839				0.82%
Sc Radial	4433.2	97.4 %		0.20				0.21%
Y 371.029	728498.5	102.18 %		0.795				0.78%
Y RADIAL	5004.8	101.8 %		1.55				1.52%
Ag 328.068†	28.7	0.1556 ug/L		0.03998	0.1556 ppb		0.03998	25.70%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.2	-6.1332 ug/L		3.58311	-6.1332 ppb		3.58311	58.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	5.3	2.9856 ug/L		0.48588	2.9856 ppb		0.48588	16.27%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	555.4	15.694 ug/L		0.4072	15.694 ppb		0.4072	2.59%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.8	0.0855 ug/L		0.05175	0.0855 ppb		0.05175	60.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	247.1	0.1054 ug/L		0.00556	0.1054 ppb		0.00556	5.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.7	18.332 ug/L		2.9448	18.332 ppb		2.9448	16.06%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-7.7	-0.1159 ug/L	0.17670	-0.1159 ppb	0.17670 152.52%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	11.2	0.2935 ug/L	0.07410	0.2935 ppb	0.07410 25.25%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	8.5	0.1176 ug/L	0.19200	0.1176 ppb	0.19200 163.32%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-25.4	-0.0842 ug/L	0.25192	-0.0842 ppb	0.25192 299.25%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	2.4	27.346 ug/L	10.5274	27.346 ppb	10.5274 38.50%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	344.0	65.445 ug/L	5.5795	65.445 ppb	5.5795 8.53%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.7	27.626 ug/L	48.6158	27.626 ppb	48.6158 175.98%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	25.8	0.0359 ug/L	0.00932	0.0359 ppb	0.00932 25.99%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-3.1	-0.2777 ug/L	0.53319	-0.2777 ppb	0.53319 192.02%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	8.1	2.8320 ug/L	3.12537	2.8320 ppb	3.12537 110.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	1.5	0.0494 ug/L	0.07713	0.0494 ppb	0.07713 156.03%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-22.8	-17.241 ug/L	7.1716	-17.241 ppb	7.1716 41.60%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-2.2	-0.3457 ug/L	1.20671	-0.3457 ppb	1.20671 349.01%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	2.0	3.6874 ug/L	0.95006	3.6874 ppb	0.95006 25.76%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	6.5	2.8036 ug/L	0.57924	2.8036 ppb	0.57924 20.66%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	2.0	1.7383 ug/L	2.48176	1.7383 ppb	2.48176 142.77%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	35.9	1.3729 ug/L	0.22634	1.3729 ppb	0.22634 16.49%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	7.8	1.7973 ug/L	0.45492	1.7973 ppb	0.45492 25.31%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-13.6	-0.1069 ug/L	0.26187	-0.1069 ppb	0.26187 244.93%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-7.8	-0.0146 ug/L	0.06731	-0.0146 ppb	0.06731 461.45%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	5.6	2.2143 ug/L	1.57621	2.2143 ppb	1.57621 71.18%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	96.7	2.8580 ug/L	1.78495	2.8580 ppb	1.78495 62.45%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	46.7	0.3723 ug/L	0.21350	0.3723 ppb	0.21350 57.35%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	72.0	0.8837 ug/L	0.01896	0.8837 ppb	0.01896 2.15%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	31.6	2.5707 ug/L	0.91542	2.5707 ppb	0.91542 35.61%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/22/2010 09:48:18
 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	4679.3	4679.3	103 %		09:50:11
1	Y RADIAL	5019.7	5019.7	102.1 %		09:50:11
1	Al 396.153Radial†	5003.9	4940.9	4864.4 ug/L	4864.4 ppb	09:50:11
1	Ca 317.933Radial†	2738.6	2645.8	4992.5 ug/L	4992.5 ppb	09:50:31
1	Fe 238.204 Radial†	455.8	436.7	5028.0 ug/L	5028.0 ppb	09:50:31
1	K 766.490 Radial†	29862.7	26539.7	5043.4 ug/L	5043.4 ppb	09:50:11
1	Mg 279.077 IEC†	129.9	126.0	5229.9 ug/L	5229.9 ppb	09:50:31
1	Na 589.592 Radial†	28692.7	28629.7	9996.6 ug/L	9996.6 ppb	09:50:11
1	Sr 421.552†	64969.6	63164.3	494.85 ug/L	494.85 ppb	09:50:11
1	Sc 361.383	878277.5	878277.5	103.90 %		09:51:28
1	Y 371.029	730043.0	730043.0	102.40 %		09:51:28
1	Ag 328.068†	99352.6	95466.1	495.13 ug/L	495.13 ppb	09:51:33
1	As 188.979†	895.8	884.2	502.45 ug/L	502.45 ppb	09:51:54
1	B 249.677†	17903.6	17678.9	497.48 ug/L	497.48 ppb	09:51:33
1	Ba 233.527†	54502.9	52444.9	499.79 ug/L	499.79 ppb	09:51:33
1	Be 313.107†	1220180.0	1178830.0	504.35 ug/L	504.35 ppb	09:51:28
1	Cd 226.502†	35255.9	34080.8	500.61 ug/L	500.61 ppb	09:51:33
1	Co 228.616†	19926.5	19232.1	506.41 ug/L	506.41 ppb	09:51:33
1	Cr 267.716†	38247.7	36741.6	500.60 ug/L	500.60 ppb	09:51:33
1	Cu 324.752†	160590.1	149035.3	493.73 ug/L	493.73 ppb	09:51:33
1	Mn 257.610†	390500.5	375454.3	499.54 ug/L	499.54 ppb	09:51:28
1	Mo 202.031†	5730.0	5501.9	495.56 ug/L	495.56 ppb	09:51:54
1	Ni 231.604†	16353.2	15666.6	505.87 ug/L	505.87 ppb	09:51:33
1	P 214.914†	3597.4	3261.7	2375.9 ug/L	2375.9 ppb	09:51:54
1	Pb 220.353†	3282.9	3208.6	503.31 ug/L	503.31 ppb	09:51:54
1	S 181.975 Axial†	599.0	546.6	989.50 ug/L	989.50 ppb	09:51:54
1	Sb 206.836†	1245.1	1172.9	517.56 ug/L	517.56 ppb	09:51:54
1	Se 196.026†	596.6	596.3	514.22 ug/L	514.22 ppb	09:51:54
1	Si 251.611†	68643.0	65547.3	2497.2 ug/L	2497.2 ppb	09:51:33
1	Sn 189.927†	2227.4	2140.1	493.82 ug/L	493.82 ppb	09:51:54
1	Ti 334.940†	287838.2	278077.9	483.56 ug/L	483.56 ppb	09:51:33
1	Tl 190.801†	1308.5	1288.5	511.72 ug/L	511.72 ppb	09:51:54
1	U 409.014†	15689.8	17044.0	502.60 ug/L	502.60 ppb	09:51:33
1	V 292.402†	63212.4	62190.0	504.78 ug/L	504.78 ppb	09:51:33
1	Zn 213.857†	42771.7	40561.6	495.25 ug/L	495.25 ppb	09:51:33
1	SiO2†	69412.0	66269.8	5366.7 ug/L	5366.7 ppb	09:53:01
2	Sc Radial	4787.8	4787.8	105 %		09:50:36
2	Y RADIAL	5121.0	5121.0	104.1 %		09:50:36
2	Al 396.153Radial†	5092.5	4914.9	4838.7 ug/L	4838.7 ppb	09:50:36
2	Ca 317.933Radial†	2767.0	2612.3	4929.5 ug/L	4929.5 ppb	09:50:56
2	Fe 238.204 Radial†	460.8	431.5	4967.7 ug/L	4967.7 ppb	09:50:56
2	K 766.490 Radial†	30314.1	26310.7	4999.9 ug/L	4999.9 ppb	09:50:36
2	Mg 279.077 IEC†	128.0	121.3	5035.2 ug/L	5035.2 ppb	09:50:56
2	Na 589.592 Radial†	29170.4	28451.5	9934.3 ug/L	9934.3 ppb	09:50:36
2	Sr 421.552†	65960.7	62674.6	491.01 ug/L	491.01 ppb	09:50:36
2	Sc 361.383	877567.1	877567.1	103.82 %		09:51:59
2	Y 371.029	729746.0	729746.0	102.36 %		09:51:59
2	Ag 328.068†	101015.4	97145.1	503.79 ug/L	503.79 ppb	09:52:05
2	As 188.979†	906.1	894.9	508.53 ug/L	508.53 ppb	09:52:25
2	B 249.677†	18255.9	18032.2	507.46 ug/L	507.46 ppb	09:52:05
2	Ba 233.527†	55290.0	53245.5	507.42 ug/L	507.42 ppb	09:52:05
2	Be 313.107†	1219445.7	1179073.3	504.47 ug/L	504.47 ppb	09:51:59
2	Cd 226.502†	35749.5	34583.7	508.01 ug/L	508.01 ppb	09:52:05
2	Co 228.616†	20202.5	19513.5	513.80 ug/L	513.80 ppb	09:52:05
2	Cr 267.716†	38831.9	37334.2	508.66 ug/L	508.66 ppb	09:52:05
2	Cu 324.752†	163683.7	152140.3	504.01 ug/L	504.01 ppb	09:52:05
2	Mn 257.610†	389542.6	374835.8	498.72 ug/L	498.72 ppb	09:51:59
2	Mo 202.031†	5713.1	5490.1	494.49 ug/L	494.49 ppb	09:52:25
2	Ni 231.604†	16583.8	15901.5	513.46 ug/L	513.46 ppb	09:52:05

2	P 214.914†	3617.5	3283.8	2390.7 ug/L	2390.7 ppb	09:52:25
2	Pb 220.353†	3273.6	3202.2	502.30 ug/L	502.30 ppb	09:52:25
2	S 181.975 Axial†	594.9	543.1	983.25 ug/L	983.25 ppb	09:52:25
2	Sb 206.836†	1235.7	1164.8	514.12 ug/L	514.12 ppb	09:52:25
2	Se 196.026†	599.2	599.4	516.55 ug/L	516.55 ppb	09:52:25
2	Si 251.611†	69804.0	66719.0	2541.9 ug/L	2541.9 ppb	09:52:05
2	Sn 189.927†	2238.1	2152.1	496.57 ug/L	496.57 ppb	09:52:25
2	Ti 334.940†	292497.1	282789.8	491.75 ug/L	491.75 ppb	09:52:05
2	Tl 190.801†	1287.4	1269.1	504.11 ug/L	504.11 ppb	09:52:25
2	U 409.014†	16109.5	17460.4	514.91 ug/L	514.91 ppb	09:52:05
2	V 292.402†	64291.2	63278.4	513.50 ug/L	513.50 ppb	09:52:05
2	Zn 213.857†	43455.5	41253.7	503.73 ug/L	503.73 ppb	09:52:05
2	SiO2†	69541.8	66448.9	5381.2 ug/L	5381.2 ppb	09:53:06
3	Sc Radial	4636.1	4636.1	102 %		09:51:01
3	Y RADIAL	4958.9	4958.9	100.9 %		09:51:01
3	Al 396.153Radial†	5024.3	5006.3	4929.4 ug/L	4929.4 ppb	09:51:01
3	Ca 317.933Radial†	2741.4	2673.3	5044.5 ug/L	5044.5 ppb	09:51:21
3	Fe 238.204 Radial†	460.6	445.6	5129.4 ug/L	5129.4 ppb	09:51:21
3	K 766.490 Radial†	29792.0	26741.2	5081.7 ug/L	5081.7 ppb	09:51:01
3	Mg 279.077 IEC†	130.9	128.1	5318.9 ug/L	5318.9 ppb	09:51:21
3	Na 589.592 Radial†	28469.4	28670.8	10011 ug/L	10011 ppb	09:51:01
3	Sr 421.552†	64627.0	63417.4	496.83 ug/L	496.83 ppb	09:51:01
3	Sc 361.383	886474.5	886474.5	104.87 %		09:52:30
3	Y 371.029	736938.9	736938.9	103.37 %		09:52:30
3	Ag 328.068†	98958.5	94206.0	488.64 ug/L	488.64 ppb	09:52:36
3	As 188.979†	912.6	892.3	506.98 ug/L	506.98 ppb	09:52:56
3	B 249.677†	17743.0	17366.5	488.66 ug/L	488.66 ppb	09:52:36
3	Ba 233.527†	54279.6	51746.9	493.14 ug/L	493.14 ppb	09:52:36
3	Be 313.107†	1229385.5	1176748.9	503.45 ug/L	503.45 ppb	09:52:30
3	Cd 226.502†	35079.7	33599.1	493.51 ug/L	493.51 ppb	09:52:36
3	Co 228.616†	19811.9	18945.5	498.87 ug/L	498.87 ppb	09:52:36
3	Cr 267.716†	38114.6	36274.3	494.25 ug/L	494.25 ppb	09:52:36
3	Cu 324.752†	159627.1	146687.9	485.96 ug/L	485.96 ppb	09:52:36
3	Mn 257.610†	393385.3	374729.8	498.59 ug/L	498.59 ppb	09:52:30
3	Mo 202.031†	5721.1	5442.5	490.22 ug/L	490.22 ppb	09:52:56
3	Ni 231.604†	16328.6	15497.7	500.42 ug/L	500.42 ppb	09:52:36
3	P 214.914†	3597.7	3229.9	2353.2 ug/L	2353.2 ppb	09:52:56
3	Pb 220.353†	3273.8	3170.7	497.37 ug/L	497.37 ppb	09:52:56
3	S 181.975 Axial†	596.8	539.2	976.03 ug/L	976.03 ppb	09:52:56
3	Sb 206.836†	1236.5	1153.7	509.15 ug/L	509.15 ppb	09:52:56
3	Se 196.026†	589.6	584.4	504.56 ug/L	504.56 ppb	09:52:56
3	Si 251.611†	68356.8	64663.4	2463.5 ug/L	2463.5 ppb	09:52:36
3	Sn 189.927†	2221.6	2114.7	487.96 ug/L	487.96 ppb	09:52:56
3	Ti 334.940†	285830.6	273601.8	475.77 ug/L	475.77 ppb	09:52:36
3	Tl 190.801†	1298.5	1267.3	503.34 ug/L	503.34 ppb	09:52:56
3	U 409.014†	15613.5	16831.6	496.32 ug/L	496.32 ppb	09:52:36
3	V 292.402†	62939.0	61366.8	498.10 ug/L	498.10 ppb	09:52:36
3	Zn 213.857†	42585.2	40003.2	488.40 ug/L	488.40 ppb	09:52:36
3	SiO2†	69925.3	66141.6	5356.4 ug/L	5356.4 ppb	09:53:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	880773.0	104.20 %	0.586			0.56%
Sc Radial	4701.1	103 %	1.7			1.66%
Y 371.029	732242.6	102.71 %	0.571			0.56%
Y RADIAL	5033.2	102.4 %	1.66			1.63%
Ag 328.068†	95605.8	495.86 ug/L	7.599	495.86 ppb	7.599	1.53%
QC value within limits for Ag 328.068 Recovery = 99.17%						
Al 396.153Radial†	4954.0	4877.5 ug/L	46.75	4877.5 ppb	46.75	0.96%
QC value within limits for Al 396.153Radial Recovery = 97.55%						
As 188.979†	890.5	505.98 ug/L	3.160	505.98 ppb	3.160	0.62%
QC value within limits for As 188.979 Recovery = 101.20%						
B 249.677†	17692.5	497.87 ug/L	9.407	497.87 ppb	9.407	1.89%
QC value within limits for B 249.677 Recovery = 99.57%						
Ba 233.527†	52479.1	500.12 ug/L	7.143	500.12 ppb	7.143	1.43%
QC value within limits for Ba 233.527 Recovery = 100.02%						
Be 313.107†	1178217.4	504.09 ug/L	0.562	504.09 ppb	0.562	0.11%
QC value within limits for Be 313.107 Recovery = 100.82%						
Ca 317.933Radial†	2643.8	4988.8 ug/L	57.59	4988.8 ppb	57.59	1.15%

QC value within limits for Ca 317.933 Radial Recovery = 99.78%

Cd 226.502†	34087.9	500.71 ug/L	7.248	500.71 ppb	7.248	1.45%
QC value within limits for Cd 226.502 Recovery = 100.14%						
Co 228.616†	19230.3	506.36 ug/L	7.467	506.36 ppb	7.467	1.47%
QC value within limits for Co 228.616 Recovery = 101.27%						
Cr 267.716†	36783.4	501.17 ug/L	7.221	501.17 ppb	7.221	1.44%
QC value within limits for Cr 267.716 Recovery = 100.23%						
Cu 324.752†	149287.8	494.57 ug/L	9.051	494.57 ppb	9.051	1.83%
QC value within limits for Cu 324.752 Recovery = 98.91%						
Fe 238.204 Radial†	437.9	5041.7 ug/L	81.74	5041.7 ppb	81.74	1.62%
QC value within limits for Fe 238.204 Radial Recovery = 100.83%						
K 766.490 Radial†	26530.5	5041.7 ug/L	40.96	5041.7 ppb	40.96	0.81%
QC value within limits for K 766.490 Radial Recovery = 100.83%						
Mg 279.077 IEC†	125.1	5194.7 ug/L	145.11	5194.7 ppb	145.11	2.79%
QC value within limits for Mg 279.077 IEC Recovery = 103.89%						
Mn 257.610†	375006.6	498.95 ug/L	0.518	498.95 ppb	0.518	0.10%
QC value within limits for Mn 257.610 Recovery = 99.79%						
Mo 202.031†	5478.2	493.42 ug/L	2.825	493.42 ppb	2.825	0.57%
QC value within limits for Mo 202.031 Recovery = 98.68%						
Na 589.592 Radial†	28584.0	9980.6 ug/L	40.71	9980.6 ppb	40.71	0.41%
QC value within limits for Na 589.592 Radial Recovery = 99.81%						
Ni 231.604†	15688.6	506.58 ug/L	6.548	506.58 ppb	6.548	1.29%
QC value within limits for Ni 231.604 Recovery = 101.32%						
P 214.914†	3258.5	2373.2 ug/L	18.87	2373.2 ppb	18.87	0.80%
QC value within limits for P 214.914 Recovery = 94.93%						
Pb 220.353†	3193.8	500.99 ug/L	3.179	500.99 ppb	3.179	0.63%
QC value within limits for Pb 220.353 Recovery = 100.20%						
S 181.975 Axial†	543.0	982.93 ug/L	6.740	982.93 ppb	6.740	0.69%
QC value within limits for S 181.975 Axial Recovery = 98.29%						
Sb 206.836†	1163.8	513.61 ug/L	4.229	513.61 ppb	4.229	0.82%
QC value within limits for Sb 206.836 Recovery = 102.72%						
Se 196.026†	593.4	511.78 ug/L	6.358	511.78 ppb	6.358	1.24%
QC value within limits for Se 196.026 Recovery = 102.36%						
Si 251.611†	65643.2	2500.9 ug/L	39.36	2500.9 ppb	39.36	1.57%
QC value within limits for Si 251.611 Recovery = 100.03%						
Sn 189.927†	2135.6	492.78 ug/L	4.397	492.78 ppb	4.397	0.89%
QC value within limits for Sn 189.927 Recovery = 98.56%						
Sr 421.552†	63085.4	494.23 ug/L	2.958	494.23 ppb	2.958	0.60%
QC value within limits for Sr 421.552 Recovery = 98.85%						
Ti 334.940†	278156.5	483.69 ug/L	7.989	483.69 ppb	7.989	1.65%
QC value within limits for Ti 334.940 Recovery = 96.74%						
Tl 190.801†	1275.0	506.39 ug/L	4.634	506.39 ppb	4.634	0.92%
QC value within limits for Tl 190.801 Recovery = 101.28%						
U 409.014†	17112.0	504.61 ug/L	9.458	504.61 ppb	9.458	1.87%
QC value within limits for U 409.014 Recovery = 100.92%						
V 292.402†	62278.4	505.46 ug/L	7.725	505.46 ppb	7.725	1.53%
QC value within limits for V 292.402 Recovery = 101.09%						
Zn 213.857†	40606.2	495.79 ug/L	7.678	495.79 ppb	7.678	1.55%
QC value within limits for Zn 213.857 Recovery = 99.16%						
SiO2†	66286.8	5368.1 ug/L	12.48	5368.1 ppb	12.48	0.23%
QC value within limits for SiO2 Recovery = 100.39%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 09:55:21

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	4469.0	4469.0	98.2 %		09:57:34
1	Y RADIAL	5093.3	5093.3	103.6 %		09:57:14
1	Al 396.153Radial†	-83.0	-11.4	-11.252 ug/L	-11.252 ppb	09:57:34
1	Ca 317.933Radial†	26.9	9.0	17.041 ug/L	17.041 ppb	09:57:34
1	Fe 238.204 Radial†	6.7	0.1	1.6154 ug/L	1.6154 ppb	09:57:34
1	K 766.490 Radial†	2570.9	108.2	20.597 ug/L	20.597 ppb	09:57:14
1	Mg 279.077 IEC†	3.0	2.6	108.50 ug/L	108.50 ppb	09:57:34
1	Na 589.592 Radial†	-759.7	-56.0	-19.569 ug/L	-19.569 ppb	09:57:14
1	Sr 421.552†	29.0	-8.0	-0.0625 ug/L	-0.0625 ppb	09:57:14
1	Sc 361.383	890347.7	890347.7	105.33 %		09:58:31
1	Y 371.029	749577.4	749577.4	105.14 %		09:58:31
1	Ag 328.068†	148.5	-15.7	-0.0805 ug/L	-0.0805 ppb	09:58:36
1	As 188.979†	-19.8	3.3	1.8469 ug/L	1.8469 ppb	09:58:56
1	B 249.677†	-152.5	302.7	8.5549 ug/L	8.5549 ppb	09:58:56
1	Ba 233.527†	24.6	11.4	0.1102 ug/L	0.1102 ppb	09:58:56
1	Be 313.107†	-4284.5	389.6	0.1666 ug/L	0.1666 ppb	09:58:36
1	Cd 226.502†	-177.2	-19.8	-0.2905 ug/L	-0.2905 ppb	09:58:56
1	Co 228.616†	-42.9	12.9	0.3381 ug/L	0.3381 ppb	09:58:56
1	Cr 267.716†	85.0	10.5	0.1431 ug/L	0.1431 ppb	09:58:56
1	Cu 324.752†	5665.3	-147.3	-0.4897 ug/L	-0.4897 ppb	09:58:36
1	Mn 257.610†	415.1	7.8	0.0061 ug/L	0.0061 ppb	09:58:56
1	Mo 202.031†	13.8	0.2	0.0172 ug/L	0.0172 ppb	09:58:56
1	Ni 231.604†	81.6	4.8	0.1562 ug/L	0.1562 ppb	09:58:56
1	P 214.914†	189.3	-20.9	-15.772 ug/L	-15.772 ppb	09:58:56
1	Pb 220.353†	-49.7	1.7	0.2662 ug/L	0.2662 ppb	09:58:56
1	S 181.975 Axial†	29.7	-1.7	-3.0949 ug/L	-3.0949 ppb	09:58:56
1	Sb 206.836†	24.0	-2.6	-1.0981 ug/L	-1.0981 ppb	09:58:56
1	Se 196.026†	-10.9	11.8	9.8506 ug/L	9.8506 ppb	09:58:56
1	Si 251.611†	547.6	1.1	0.0411 ug/L	0.0411 ppb	09:58:56
1	Sn 189.927†	9.9	5.7	1.3207 ug/L	1.3207 ppb	09:58:56
1	Ti 334.940†	-1025.7	71.7	0.1168 ug/L	0.1168 ppb	09:58:36
1	Tl 190.801†	-32.0	-1.3	-0.5028 ug/L	-0.5028 ppb	09:58:56
1	U 409.014†	-1940.1	101.2	2.9948 ug/L	2.9948 ppb	09:58:31
1	V 292.402†	-1331.8	86.3	0.6986 ug/L	0.6986 ppb	09:58:36
1	Zn 213.857†	673.3	34.9	0.4295 ug/L	0.4295 ppb	09:58:56
1	SiO2†	569.7	4.6	0.3713 ug/L	0.3713 ppb	10:00:17
2	Sc Radial	4471.6	4471.6	98.2 %		09:57:59
2	Y RADIAL	5070.1	5070.1	103.1 %		09:57:39
2	Al 396.153Radial†	-77.6	-5.8	-5.7529 ug/L	-5.7529 ppb	09:57:59
2	Ca 317.933Radial†	20.3	2.3	4.3762 ug/L	4.3762 ppb	09:57:59
2	Fe 238.204 Radial†	7.3	0.8	8.9063 ug/L	8.9063 ppb	09:57:59
2	K 766.490 Radial†	2622.3	159.0	30.264 ug/L	30.264 ppb	09:57:39
2	Mg 279.077 IEC†	2.3	1.9	80.863 ug/L	80.863 ppb	09:57:59
2	Na 589.592 Radial†	-744.7	-40.3	-14.066 ug/L	-14.066 ppb	09:57:39
2	Sr 421.552†	28.1	-8.8	-0.0690 ug/L	-0.0690 ppb	09:57:39
2	Sc 361.383	880144.5	880144.5	104.12 %		09:59:01
2	Y 371.029	740922.7	740922.7	103.92 %		09:59:01
2	Ag 328.068†	197.3	32.8	0.1719 ug/L	0.1719 ppb	09:59:06
2	As 188.979†	-18.3	4.5	2.5351 ug/L	2.5351 ppb	09:59:26
2	B 249.677†	-142.7	310.3	8.7697 ug/L	8.7697 ppb	09:59:26
2	Ba 233.527†	22.4	9.6	0.0930 ug/L	0.0930 ppb	09:59:26
2	Be 313.107†	-4294.1	333.3	0.1424 ug/L	0.1424 ppb	09:59:06
2	Cd 226.502†	-153.4	1.1	0.0167 ug/L	0.0167 ppb	09:59:26
2	Co 228.616†	-32.8	22.1	0.5800 ug/L	0.5800 ppb	09:59:26
2	Cr 267.716†	88.5	14.8	0.2015 ug/L	0.2015 ppb	09:59:26
2	Cu 324.752†	5648.2	-101.4	-0.3377 ug/L	-0.3377 ppb	09:59:06
2	Mn 257.610†	425.4	22.3	0.0272 ug/L	0.0272 ppb	09:59:26
2	Mo 202.031†	8.1	-5.1	-0.4565 ug/L	-0.4565 ppb	09:59:26
2	Ni 231.604†	80.5	4.7	0.1506 ug/L	0.1506 ppb	09:59:26

2	P 214.914†	178.8	-29.0	-21.891 ug/L	-21.891 ppb	09:59:26
2	Pb 220.353†	-56.3	-5.2	-0.8129 ug/L	-0.8129 ppb	09:59:26
2	S 181.975 Axial†	36.0	4.6	8.4029 ug/L	8.4029 ppb	09:59:26
2	Sb 206.836†	31.9	5.2	2.2162 ug/L	2.2162 ppb	09:59:26
2	Se 196.026†	-13.9	8.8	7.3900 ug/L	7.3900 ppb	09:59:26
2	Si 251.611†	573.8	32.3	1.2394 ug/L	1.2394 ppb	09:59:26
2	Sn 189.927†	4.2	0.3	0.0765 ug/L	0.0765 ppb	09:59:26
2	Ti 334.940†	-1054.2	33.1	0.0496 ug/L	0.0496 ppb	09:59:06
2	Tl 190.801†	-21.2	8.7	3.4281 ug/L	3.4281 ppb	09:59:26
2	U 409.014†	-1871.8	145.5	4.3030 ug/L	4.3030 ppb	09:59:01
2	V 292.402†	-1297.6	104.4	0.8383 ug/L	0.8383 ppb	09:59:06
2	Zn 213.857†	676.9	45.8	0.5625 ug/L	0.5625 ppb	09:59:26
2	SiO2†	568.5	9.7	0.7997 ug/L	0.7997 ppb	10:00:37
3	Sc Radial	4461.5	4461.5	98.0 %		09:58:24
3	Y RADIAL	5052.7	5052.7	102.8 %		09:58:04
3	Al 396.153Radial†	-69.3	2.4	2.4347 ug/L	2.4347 ppb	09:58:24
3	Ca 317.933Radial†	28.0	10.2	19.238 ug/L	19.238 ppb	09:58:24
3	Fe 238.204 Radial†	7.3	0.8	9.0876 ug/L	9.0876 ppb	09:58:24
3	K 766.490 Radial†	2686.4	230.4	43.846 ug/L	43.846 ppb	09:58:04
3	Mg 279.077 IEC†	-0.5	-1.0	-39.727 ug/L	-39.727 ppb	09:58:24
3	Na 589.592 Radial†	-741.5	-38.8	-13.549 ug/L	-13.549 ppb	09:58:04
3	Sr 421.552†	55.5	19.1	0.1499 ug/L	0.1499 ppb	09:58:04
3	Sc 361.383	892799.0	892799.0	105.62 %		09:59:31
3	Y 371.029	751095.2	751095.2	105.35 %		09:59:31
3	Ag 328.068†	213.2	45.2	0.2395 ug/L	0.2395 ppb	09:59:36
3	As 188.979†	-14.5	8.4	4.7221 ug/L	4.7221 ppb	09:59:56
3	B 249.677†	-146.8	308.5	8.7169 ug/L	8.7169 ppb	09:59:56
3	Ba 233.527†	10.5	-2.0	-0.0175 ug/L	-0.0175 ppb	09:59:56
3	Be 313.107†	-4303.7	382.6	0.1634 ug/L	0.1634 ppb	09:59:36
3	Cd 226.502†	-167.4	-10.0	-0.1483 ug/L	-0.1483 ppb	09:59:56
3	Co 228.616†	-43.8	12.1	0.3169 ug/L	0.3169 ppb	09:59:56
3	Cr 267.716†	63.3	-10.2	-0.1364 ug/L	-0.1364 ppb	09:59:56
3	Cu 324.752†	5670.7	-157.0	-0.5187 ug/L	-0.5187 ppb	09:59:36
3	Mn 257.610†	431.7	22.4	0.0323 ug/L	0.0323 ppb	09:59:56
3	Mo 202.031†	6.1	-7.1	-0.6421 ug/L	-0.6421 ppb	09:59:56
3	Ni 231.604†	77.2	0.4	0.0141 ug/L	0.0141 ppb	09:59:56
3	P 214.914†	178.7	-31.5	-23.769 ug/L	-23.769 ppb	09:59:56
3	Pb 220.353†	-46.9	4.5	0.6971 ug/L	0.6971 ppb	09:59:56
3	S 181.975 Axial†	31.3	-0.2	-0.3938 ug/L	-0.3938 ppb	09:59:56
3	Sb 206.836†	28.4	1.5	0.6517 ug/L	0.6517 ppb	09:59:56
3	Se 196.026†	-22.1	1.3	1.1006 ug/L	1.1006 ppb	09:59:56
3	Si 251.611†	561.6	12.9	0.5017 ug/L	0.5017 ppb	09:59:56
3	Sn 189.927†	12.7	8.3	1.9084 ug/L	1.9084 ppb	09:59:56
3	Ti 334.940†	-1098.1	5.9	0.0168 ug/L	0.0168 ppb	09:59:36
3	Tl 190.801†	-31.3	-0.5	-0.2004 ug/L	-0.2004 ppb	09:59:56
3	U 409.014†	-2111.5	-56.0	-1.6584 ug/L	-1.6584 ppb	09:59:31
3	V 292.402†	-1340.0	82.0	0.6426 ug/L	0.6426 ppb	09:59:36
3	Zn 213.857†	678.4	38.0	0.4672 ug/L	0.4672 ppb	09:59:56
3	SiO2†	574.8	7.8	0.6535 ug/L	0.6535 ppb	10:00:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	887763.7	105.02 %		0.794				0.76%
Sc Radial	4467.4	98.1 %		0.11				0.12%
Y 371.029	747198.4	104.80 %		0.770				0.73%
Y RADIAL	5072.1	103.2 %		0.41				0.40%
Ag 328.068†	20.8	0.1103 ug/L		0.16866	0.1103 ppb		0.16866	152.95%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-4.9	-4.8569 ug/L		6.88745	-4.8569 ppb		6.88745	141.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	5.4	3.0347 ug/L		1.50127	3.0347 ppb		1.50127	49.47%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	307.2	8.6805 ug/L		0.11194	8.6805 ppb		0.11194	1.29%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	6.3	0.0619 ug/L		0.06929	0.0619 ppb		0.06929	111.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	368.5	0.1575 ug/L		0.01313	0.1575 ppb		0.01313	8.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	7.2	13.552 ug/L		8.0220	13.552 ppb		8.0220	59.19%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-9.6	-0.1407 ug/L	0.15374	-0.1407 ppb	0.15374	109.29%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	15.7	0.4117 ug/L	0.14617	0.4117 ppb	0.14617	35.50%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	5.0	0.0694 ug/L	0.18058	0.0694 ppb	0.18058	260.22%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-135.2	-0.4487 ug/L	0.09720	-0.4487 ppb	0.09720	21.66%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.6	6.5364 ug/L	4.26273	6.5364 ppb	4.26273	65.22%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	165.9	31.569 ug/L	11.6798	31.569 ppb	11.6798	37.00%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.2	49.880 ug/L	78.8237	49.880 ppb	78.8237	158.03%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	17.5	0.0219 ug/L	0.01391	0.0219 ppb	0.01391	63.57%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-4.0	-0.3604 ug/L	0.33998	-0.3604 ppb	0.33998	94.32%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-45.0	-15.728 ug/L	3.3366	-15.728 ppb	3.3366	21.21%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.3	0.1070 ug/L	0.08046	0.1070 ppb	0.08046	75.22%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-27.1	-20.477 ug/L	4.1815	-20.477 ppb	4.1815	20.42%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.3	0.0502 ug/L	0.77784	0.0502 ppb	0.77784	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.9	1.6381 ug/L	6.01215	1.6381 ppb	6.01215	367.02%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.4	0.5900 ug/L	1.65802	0.5900 ppb	1.65802	281.04%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	7.3	6.1138 ug/L	4.51246	6.1138 ppb	4.51246	73.81%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	15.4	0.5940 ug/L	0.60448	0.5940 ppb	0.60448	101.76%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.8	1.1019 ug/L	0.93533	1.1019 ppb	0.93533	84.89%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	0.8	0.0061 ug/L	0.12452	0.0061 ppb	0.12452	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	36.9	0.0611 ug/L	0.05096	0.0611 ppb	0.05096	83.45%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.3	0.9083 ug/L	2.18742	0.9083 ppb	2.18742	240.83%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	63.6	1.8798 ug/L	3.13320	1.8798 ppb	3.13320	166.68%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	90.9	0.7265 ug/L	0.10076	0.7265 ppb	0.10076	13.87%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	39.6	0.4864 ug/L	0.06854	0.4864 ppb	0.06854	14.09%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	7.4	0.6082 ug/L	0.21778	0.6082 ppb	0.21778	35.81%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 21
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/22/2010 11:07:15
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4709.3	4709.3	103 %		11:09:07
1	Y RADIAL	5049.0	5049.0	102.7 %		11:09:07
1	Al 396.153Radial†	5102.2	5004.9	4927.9 ug/L	4927.9 ppb	11:09:07
1	Ca 317.933Radial†	2768.0	2657.2	5014.0 ug/L	5014.0 ppb	11:09:27
1	Fe 238.204 Radial†	463.9	441.8	5086.0 ug/L	5086.0 ppb	11:09:27
1	K 766.490 Radial†	30297.2	26774.9	5088.1 ug/L	5088.1 ppb	11:09:07
1	Mg 279.077 IEC†	129.5	124.8	5181.1 ug/L	5181.1 ppb	11:09:27
1	Na 589.592 Radial†	29248.2	28989.2	10122 ug/L	10122 ppb	11:09:07
1	Sr 421.552†	66075.2	63831.0	500.07 ug/L	500.07 ppb	11:09:07
1	Sc 361.383	885694.5	885694.5	104.78 %		11:10:24
1	Y 371.029	735463.9	735463.9	103.16 %		11:10:24
1	Ag 328.068†	99195.2	94515.1	490.22 ug/L	490.22 ppb	11:10:30
1	As 188.979†	917.6	897.9	510.10 ug/L	510.10 ppb	11:10:50
1	B 249.677†	17689.2	17330.0	487.63 ug/L	487.63 ppb	11:10:30
1	Ba 233.527†	54348.7	51858.4	494.20 ug/L	494.20 ppb	11:10:30
1	Be 313.107†	1230740.0	1179074.0	504.44 ug/L	504.44 ppb	11:10:24
1	Cd 226.502†	35177.6	33721.9	495.32 ug/L	495.32 ppb	11:10:30
1	Co 228.616†	19834.3	18983.5	499.87 ug/L	499.87 ppb	11:10:30
1	Cr 267.716†	38149.0	36339.2	495.12 ug/L	495.12 ppb	11:10:30
1	Cu 324.752†	160675.2	147822.2	489.71 ug/L	489.71 ppb	11:10:30
1	Mn 257.610†	393566.0	375232.6	499.26 ug/L	499.26 ppb	11:10:24
1	Mo 202.031†	5741.0	5466.3	492.35 ug/L	492.35 ppb	11:10:50
1	Ni 231.604†	16334.0	15516.5	501.03 ug/L	501.03 ppb	11:10:30
1	P 214.914†	3635.4	3269.0	2382.1 ug/L	2382.1 ppb	11:10:50
1	Pb 220.353†	3306.0	3204.1	502.62 ug/L	502.62 ppb	11:10:50
1	S 181.975 Axial†	598.7	541.5	980.17 ug/L	980.17 ppb	11:10:50
1	Sb 206.836†	1234.3	1152.6	508.81 ug/L	508.81 ppb	11:10:50
1	Se 196.026†	598.5	593.4	511.97 ug/L	511.97 ppb	11:10:50
1	Si 251.611†	69003.6	65338.1	2489.2 ug/L	2489.2 ppb	11:10:30
1	Sn 189.927†	2244.8	2138.7	493.48 ug/L	493.48 ppb	11:10:50
1	Ti 334.940†	287143.2	275094.6	478.37 ug/L	478.37 ppb	11:10:30
1	Tl 190.801†	1295.7	1265.8	502.75 ug/L	502.75 ppb	11:10:50
1	U 409.014†	15992.0	17205.9	507.39 ug/L	507.39 ppb	11:10:30
1	V 292.402†	63114.4	61587.0	499.92 ug/L	499.92 ppb	11:10:30
1	Zn 213.857†	42782.8	40227.5	491.16 ug/L	491.16 ppb	11:10:30
1	SiO2†	69414.9	65713.1	5321.6 ug/L	5321.6 ppb	11:11:57
2	Sc Radial	4774.4	4774.4	105 %		11:09:32
2	Y RADIAL	5116.8	5116.8	104.1 %		11:09:32
2	Al 396.153Radial†	5095.6	4931.5	4855.9 ug/L	4855.9 ppb	11:09:32
2	Ca 317.933Radial†	2755.9	2609.2	4923.5 ug/L	4923.5 ppb	11:09:52
2	Fe 238.204 Radial†	458.2	430.2	4952.5 ug/L	4952.5 ppb	11:09:52
2	K 766.490 Radial†	30073.8	26162.5	4971.7 ug/L	4971.7 ppb	11:09:32
2	Mg 279.077 IEC†	128.7	122.3	5079.2 ug/L	5079.2 ppb	11:09:52
2	Na 589.592 Radial†	29089.1	28452.0	9934.5 ug/L	9934.5 ppb	11:09:32
2	Sr 421.552†	65608.5	62515.1	489.76 ug/L	489.76 ppb	11:09:32
2	Sc 361.383	912492.4	912492.4	107.95 %		11:10:56
2	Y 371.029	758012.3	758012.3	106.32 %		11:10:56
2	Ag 328.068†	99817.9	92311.6	478.79 ug/L	478.79 ppb	11:11:01
2	As 188.979†	909.7	864.8	491.37 ug/L	491.37 ppb	11:11:21
2	B 249.677†	17808.1	16944.4	476.78 ug/L	476.78 ppb	11:11:01
2	Ba 233.527†	54705.4	50665.5	482.83 ug/L	482.83 ppb	11:11:01
2	Be 313.107†	1229932.8	1143830.4	489.37 ug/L	489.37 ppb	11:10:56
2	Cd 226.502†	35424.6	32964.7	484.20 ug/L	484.20 ppb	11:11:01
2	Co 228.616†	19970.9	18554.0	488.56 ug/L	488.56 ppb	11:11:01
2	Cr 267.716†	38401.4	35503.7	483.74 ug/L	483.74 ppb	11:11:01
2	Cu 324.752†	161616.4	144190.6	477.68 ug/L	477.68 ppb	11:11:01
2	Mn 257.610†	392957.3	363637.6	483.83 ug/L	483.83 ppb	11:10:56
2	Mo 202.031†	5747.2	5311.2	478.38 ug/L	478.38 ppb	11:11:21
2	Ni 231.604†	16429.9	15147.5	489.11 ug/L	489.11 ppb	11:11:01

2	P 214.914†	3615.6	3148.7	2293.4 ug/L	2293.4 ppb	11:11:21
2	Pb 220.353†	3295.1	3101.4	486.52 ug/L	486.52 ppb	11:11:21
2	S 181.975 Axial†	588.5	515.2	932.70 ug/L	932.70 ppb	11:11:21
2	Sb 206.836†	1236.6	1120.1	494.49 ug/L	494.49 ppb	11:11:21
2	Se 196.026†	603.3	581.1	501.25 ug/L	501.25 ppb	11:11:21
2	Si 251.611†	69464.5	63831.0	2431.8 ug/L	2431.8 ppb	11:11:01
2	Sn 189.927†	2246.7	2077.6	479.39 ug/L	479.39 ppb	11:11:21
2	Ti 334.940†	288860.8	268637.6	467.15 ug/L	467.15 ppb	11:11:01
2	Tl 190.801†	1304.2	1237.3	491.42 ug/L	491.42 ppb	11:11:21
2	U 409.014†	15857.1	16632.7	490.48 ug/L	490.48 ppb	11:11:01
2	V 292.402†	63445.3	60124.5	488.00 ug/L	488.00 ppb	11:11:01
2	Zn 213.857†	42956.8	39189.6	478.48 ug/L	478.48 ppb	11:11:01
2	SiO2†	69708.8	64039.8	5186.1 ug/L	5186.1 ppb	11:12:02
3	Sc Radial	4744.0	4744.0	104 %		11:09:57
3	Y RADIAL	5038.3	5038.3	102.5 %		11:09:57
3	Al 396.153Radial†	5073.4	4941.3	4865.0 ug/L	4865.0 ppb	11:09:57
3	Ca 317.933Radial†	2748.2	2618.7	4941.4 ug/L	4941.4 ppb	11:10:17
3	Fe 238.204 Radial†	461.2	435.9	5018.8 ug/L	5018.8 ppb	11:10:17
3	K 766.490 Radial†	30145.2	26414.8	5019.7 ug/L	5019.7 ppb	11:09:57
3	Mg 279.077 IEC†	130.5	124.8	5181.6 ug/L	5181.6 ppb	11:10:17
3	Na 589.592 Radial†	28962.9	28508.6	9954.3 ug/L	9954.3 ppb	11:09:57
3	Sr 421.552†	65438.3	62752.7	491.62 ug/L	491.62 ppb	11:09:57
3	Sc 361.383	882407.3	882407.3	104.39 %		11:11:27
3	Y 371.029	733380.8	733380.8	102.87 %		11:11:27
3	Ag 328.068†	99774.1	95422.4	494.91 ug/L	494.91 ppb	11:11:32
3	As 188.979†	907.6	891.5	506.54 ug/L	506.54 ppb	11:11:52
3	B 249.677†	17892.8	17587.9	494.92 ug/L	494.92 ppb	11:11:32
3	Ba 233.527†	54771.8	52456.9	499.90 ug/L	499.90 ppb	11:11:32
3	Be 313.107†	1229575.7	1182334.5	505.85 ug/L	505.85 ppb	11:11:27
3	Cd 226.502†	35485.3	34141.8	501.50 ug/L	501.50 ppb	11:11:32
3	Co 228.616†	19968.6	19182.6	505.10 ug/L	505.10 ppb	11:11:32
3	Cr 267.716†	38445.1	36758.4	500.83 ug/L	500.83 ppb	11:11:32
3	Cu 324.752†	161208.7	148904.5	493.30 ug/L	493.30 ppb	11:11:32
3	Mn 257.610†	392898.4	375992.3	500.26 ug/L	500.26 ppb	11:11:27
3	Mo 202.031†	5698.3	5445.8	490.51 ug/L	490.51 ppb	11:11:52
3	Ni 231.604†	16500.7	15734.3	508.06 ug/L	508.06 ppb	11:11:32
3	P 214.914†	3597.2	3245.3	2363.5 ug/L	2363.5 ppb	11:11:52
3	Pb 220.353†	3250.0	3162.3	496.06 ug/L	496.06 ppb	11:11:52
3	S 181.975 Axial†	589.3	534.6	967.77 ug/L	967.77 ppb	11:11:52
3	Sb 206.836†	1227.3	1150.3	507.74 ug/L	507.74 ppb	11:11:52
3	Se 196.026†	602.3	599.2	516.55 ug/L	516.55 ppb	11:11:52
3	Si 251.611†	69437.3	65998.9	2514.5 ug/L	2514.5 ppb	11:11:32
3	Sn 189.927†	2218.7	2121.7	489.56 ug/L	489.56 ppb	11:11:52
3	Ti 334.940†	288829.0	277730.5	482.95 ug/L	482.95 ppb	11:11:32
3	Tl 190.801†	1291.9	1266.6	503.11 ug/L	503.11 ppb	11:11:52
3	U 409.014†	15675.6	16959.6	500.10 ug/L	500.10 ppb	11:11:32
3	V 292.402†	63640.0	62314.9	505.71 ug/L	505.71 ppb	11:11:32
3	Zn 213.857†	43094.0	40677.8	496.67 ug/L	496.67 ppb	11:11:32
3	SiO2†	70562.5	67059.3	5430.9 ug/L	5430.9 ppb	11:12:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	893531.4	105.71 %	1.952			1.85%
Sc Radial	4742.5	104 %	0.7			0.69%
Y 371.029	742285.7	104.12 %	1.916			1.84%
Y RADIAL	5068.0	103.1 %	0.87			0.84%
Ag 328.068†	94083.0	487.97 ug/L	8.290	487.97 ppb	8.290	1.70%
QC value within limits for Ag 328.068 Recovery = 97.59%						
Al 396.153Radial†	4959.2	4882.9 ug/L	39.20	4882.9 ppb	39.20	0.80%
QC value within limits for Al 396.153Radial Recovery = 97.66%						
As 188.979†	884.7	502.67 ug/L	9.951	502.67 ppb	9.951	1.98%
QC value within limits for As 188.979 Recovery = 100.53%						
B 249.677†	17287.4	486.44 ug/L	9.125	486.44 ppb	9.125	1.88%
QC value within limits for B 249.677 Recovery = 97.29%						
Ba 233.527†	51660.2	492.31 ug/L	8.690	492.31 ppb	8.690	1.77%
QC value within limits for Ba 233.527 Recovery = 98.46%						
Be 313.107†	1168412.9	499.89 ug/L	9.133	499.89 ppb	9.133	1.83%
QC value within limits for Be 313.107 Recovery = 99.98%						
Ca 317.933Radial†	2628.3	4959.6 ug/L	47.95	4959.6 ppb	47.95	0.97%

QC value within limits for Ca 317.933 Radial Recovery = 99.19%									
Cd	226.502†	33609.5	493.68 ug/L	8.767	493.68 ppb	8.767	1.78%		
QC value within limits for Cd 226.502 Recovery = 98.74%									
Co	228.616†	18906.7	497.84 ug/L	8.456	497.84 ppb	8.456	1.70%		
QC value within limits for Co 228.616 Recovery = 99.57%									
Cr	267.716†	36200.4	493.23 ug/L	8.700	493.23 ppb	8.700	1.76%		
QC value within limits for Cr 267.716 Recovery = 98.65%									
Cu	324.752†	146972.4	486.90 ug/L	8.179	486.90 ppb	8.179	1.68%		
QC value within limits for Cu 324.752 Recovery = 97.38%									
Fe	238.204 Radial†	436.0	5019.1 ug/L	66.74	5019.1 ppb	66.74	1.33%		
QC value within limits for Fe 238.204 Radial Recovery = 100.38%									
K	766.490 Radial†	26450.8	5026.5 ug/L	58.49	5026.5 ppb	58.49	1.16%		
QC value within limits for K 766.490 Radial Recovery = 100.53%									
Mg	279.077 IEC†	124.0	5147.3 ug/L	58.98	5147.3 ppb	58.98	1.15%		
QC value within limits for Mg 279.077 IEC Recovery = 102.95%									
Mn	257.610†	371620.8	494.45 ug/L	9.210	494.45 ppb	9.210	1.86%		
QC value within limits for Mn 257.610 Recovery = 98.89%									
Mo	202.031†	5407.7	487.08 ug/L	7.589	487.08 ppb	7.589	1.56%		
QC value within limits for Mo 202.031 Recovery = 97.42%									
Na	589.592 Radial†	28649.9	10004 ug/L	103.1	10004 ppb	103.1	1.03%		
QC value within limits for Na 589.592 Radial Recovery = 100.04%									
Ni	231.604†	15466.1	499.40 ug/L	9.578	499.40 ppb	9.578	1.92%		
QC value within limits for Ni 231.604 Recovery = 99.88%									
P	214.914†	3221.0	2346.3 ug/L	46.80	2346.3 ppb	46.80	1.99%		
QC value within limits for P 214.914 Recovery = 93.85%									
Pb	220.353†	3155.9	495.06 ug/L	8.096	495.06 ppb	8.096	1.64%		
QC value within limits for Pb 220.353 Recovery = 99.01%									
S	181.975 Axial†	530.4	960.22 ug/L	24.621	960.22 ppb	24.621	2.56%		
QC value within limits for S 181.975 Axial Recovery = 96.02%									
Sb	206.836†	1141.0	503.68 ug/L	7.978	503.68 ppb	7.978	1.58%		
QC value within limits for Sb 206.836 Recovery = 100.74%									
Se	196.026†	591.2	509.92 ug/L	7.856	509.92 ppb	7.856	1.54%		
QC value within limits for Se 196.026 Recovery = 101.98%									
Si	251.611†	65056.0	2478.5 ug/L	42.35	2478.5 ppb	42.35	1.71%		
QC value within limits for Si 251.611 Recovery = 99.14%									
Sn	189.927†	2112.6	487.48 ug/L	7.274	487.48 ppb	7.274	1.49%		
QC value within limits for Sn 189.927 Recovery = 97.50%									
Sr	421.552†	63032.9	493.82 ug/L	5.494	493.82 ppb	5.494	1.11%		
QC value within limits for Sr 421.552 Recovery = 98.76%									
Ti	334.940†	273820.9	476.16 ug/L	8.130	476.16 ppb	8.130	1.71%		
QC value within limits for Ti 334.940 Recovery = 95.23%									
Tl	190.801†	1256.6	499.09 ug/L	6.647	499.09 ppb	6.647	1.33%		
QC value within limits for Tl 190.801 Recovery = 99.82%									
U	409.014†	16932.7	499.32 ug/L	8.486	499.32 ppb	8.486	1.70%		
QC value within limits for U 409.014 Recovery = 99.86%									
V	292.402†	61342.1	497.88 ug/L	9.027	497.88 ppb	9.027	1.81%		
QC value within limits for V 292.402 Recovery = 99.58%									
Zn	213.857†	40031.6	488.77 ug/L	9.327	488.77 ppb	9.327	1.91%		
QC value within limits for Zn 213.857 Recovery = 97.75%									
SiO2†		65604.1	5312.9 ug/L	122.63	5312.9 ppb	122.63	2.31%		
QC value within limits for SiO2 Recovery = 99.35%									
All analyte(s) passed QC.									

Sequence No.: 22

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 11:14:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4836.3	4836.3	106 %		11:16:10
1	Y RADIAL	5214.1	5214.1	106.0 %		11:16:10
1	Al 396.153Radial†	-65.7	11.3	11.191 ug/L	11.191 ppb	11:16:30
1	Ca 317.933Radial†	26.4	6.5	12.209 ug/L	12.209 ppb	11:16:30
1	Fe 238.204 Radial†	7.4	0.4	4.1581 ug/L	4.1581 ppb	11:16:30
1	K 766.490 Radial†	2673.0	5.4	1.0221 ug/L	1.0221 ppb	11:16:10
1	Mg 279.077 IEC†	2.5	1.9	79.283 ug/L	79.283 ppb	11:16:30
1	Na 589.592 Radial†	-746.6	15.1	5.2603 ug/L	5.2603 ppb	11:16:10
1	Sr 421.552†	54.3	13.7	0.1070 ug/L	0.1070 ppb	11:16:10
1	Sc 361.383	872566.6	872566.6	103.22 %		11:17:27
1	Y 371.029	736483.3	736483.3	103.30 %		11:17:27
1	Ag 328.068†	323.6	156.8	0.8091 ug/L	0.8091 ppb	11:17:27
1	As 188.979†	-15.4	7.1	4.0306 ug/L	4.0306 ppb	11:17:47
1	B 249.677†	-280.9	175.3	4.9546 ug/L	4.9546 ppb	11:17:47
1	Ba 233.527†	16.8	4.3	0.0415 ug/L	0.0415 ppb	11:17:47
1	Be 313.107†	-4392.4	202.2	0.0863 ug/L	0.0863 ppb	11:17:27
1	Cd 226.502†	-158.4	-5.0	-0.0734 ug/L	-0.0734 ppb	11:17:47
1	Co 228.616†	-36.3	18.5	0.4856 ug/L	0.4856 ppb	11:17:47
1	Cr 267.716†	82.1	9.3	0.1271 ug/L	0.1271 ppb	11:17:47
1	Cu 324.752†	5686.1	-17.5	-0.0585 ug/L	-0.0585 ppb	11:17:27
1	Mn 257.610†	438.3	38.3	0.0481 ug/L	0.0481 ppb	11:17:47
1	Mo 202.031†	10.6	-2.6	-0.2371 ug/L	-0.2371 ppb	11:17:47
1	Ni 231.604†	85.6	10.3	0.3333 ug/L	0.3333 ppb	11:17:47
1	P 214.914†	180.1	-26.2	-19.814 ug/L	-19.814 ppb	11:17:47
1	Pb 220.353†	-43.6	6.6	1.0396 ug/L	1.0396 ppb	11:17:47
1	S 181.975 Axial†	36.6	5.5	9.9996 ug/L	9.9996 ppb	11:17:47
1	Sb 206.836†	41.8	15.0	6.4050 ug/L	6.4050 ppb	11:17:47
1	Se 196.026†	-27.2	-4.2	-3.4528 ug/L	-3.4528 ppb	11:17:47
1	Si 251.611†	680.2	140.2	5.3561 ug/L	5.3561 ppb	11:17:47
1	Sn 189.927†	5.9	2.0	0.4528 ug/L	0.4528 ppb	11:17:47
1	Ti 334.940†	-1080.5	-1.2	-0.0075 ug/L	-0.0075 ppb	11:17:27
1	Tl 190.801†	-30.4	-0.3	-0.1389 ug/L	-0.1389 ppb	11:17:47
1	U 409.014†	-1964.2	40.3	1.1911 ug/L	1.1911 ppb	11:17:27
1	V 292.402†	-1373.2	20.4	0.1631 ug/L	0.1631 ppb	11:17:27
1	Zn 213.857†	668.9	43.7	0.5356 ug/L	0.5356 ppb	11:17:47
1	SiO2†	667.9	110.7	8.9941 ug/L	8.9941 ppb	11:18:58
2	Sc Radial	4716.7	4716.7	104 %		11:16:35
2	Y RADIAL	5097.9	5097.9	103.7 %		11:16:35
2	Al 396.153Radial†	-78.5	-2.6	-2.5275 ug/L	-2.5275 ppb	11:16:55
2	Ca 317.933Radial†	20.0	0.9	1.7627 ug/L	1.7627 ppb	11:16:55
2	Fe 238.204 Radial†	9.4	2.4	28.012 ug/L	28.012 ppb	11:16:55
2	K 766.490 Radial†	2690.2	85.8	16.327 ug/L	16.327 ppb	11:16:35
2	Mg 279.077 IEC†	2.6	2.1	85.928 ug/L	85.928 ppb	11:16:55
2	Na 589.592 Radial†	-721.3	21.7	7.5597 ug/L	7.5597 ppb	11:16:35
2	Sr 421.552†	21.1	-17.1	-0.1341 ug/L	-0.1341 ppb	11:16:35
2	Sc 361.383	870461.9	870461.9	102.98 %		11:17:52
2	Y 371.029	735732.8	735732.8	103.20 %		11:17:52
2	Ag 328.068†	203.2	40.7	0.2198 ug/L	0.2198 ppb	11:17:52
2	As 188.979†	-24.7	-1.9	-1.0518 ug/L	-1.0518 ppb	11:18:12
2	B 249.677†	-285.9	169.8	4.7932 ug/L	4.7932 ppb	11:18:12
2	Ba 233.527†	10.4	-1.8	-0.0160 ug/L	-0.0160 ppb	11:18:12
2	Be 313.107†	-4319.1	263.0	0.1123 ug/L	0.1123 ppb	11:17:52
2	Cd 226.502†	-159.9	-6.8	-0.1034 ug/L	-0.1034 ppb	11:18:12
2	Co 228.616†	-28.6	25.8	0.6791 ug/L	0.6791 ppb	11:18:12
2	Cr 267.716†	86.7	14.0	0.1940 ug/L	0.1940 ppb	11:18:12
2	Cu 324.752†	5730.9	39.3	0.1321 ug/L	0.1321 ppb	11:17:52
2	Mn 257.610†	470.2	70.3	0.0928 ug/L	0.0928 ppb	11:18:12
2	Mo 202.031†	12.2	-1.0	-0.0890 ug/L	-0.0890 ppb	11:18:12
2	Ni 231.604†	90.5	15.3	0.4935 ug/L	0.4935 ppb	11:18:12

2	P 214.914†	175.6	-30.1	-22.837 ug/L	-22.837 ppb	11:18:12
2	Pb 220.353†	-53.6	-3.1	-0.4959 ug/L	-0.4959 ppb	11:18:12
2	S 181.975 Axial†	35.7	4.8	8.6247 ug/L	8.6247 ppb	11:18:12
2	Sb 206.836†	26.6	0.4	0.1939 ug/L	0.1939 ppb	11:18:12
2	Se 196.026†	-26.8	-3.9	-3.1627 ug/L	-3.1627 ppb	11:18:12
2	Si 251.611†	694.4	155.5	5.9407 ug/L	5.9407 ppb	11:18:12
2	Sn 189.927†	13.2	9.1	2.0974 ug/L	2.0974 ppb	11:18:12
2	Ti 334.940†	-1073.9	2.7	-0.0017 ug/L	-0.0017 ppb	11:17:52
2	Tl 190.801†	-32.8	-2.8	-1.1027 ug/L	-1.1027 ppb	11:18:12
2	U 409.014†	-2034.9	-33.0	-0.9787 ug/L	-0.9787 ppb	11:17:52
2	V 292.402†	-1368.4	21.8	0.1690 ug/L	0.1690 ppb	11:17:52
2	Zn 213.857†	656.5	33.2	0.4023 ug/L	0.4023 ppb	11:18:12
2	SiO2†	669.8	114.1	9.2633 ug/L	9.2633 ppb	11:19:18
3	Sc Radial	4673.5	4673.5	103 %		11:17:00
3	Y RADIAL	5040.4	5040.4	102.5 %		11:17:00
3	Al 396.153Radial†	-77.0	-1.8	-1.7942 ug/L	-1.7942 ppb	11:17:20
3	Ca 317.933Radial†	29.6	10.4	19.707 ug/L	19.707 ppb	11:17:20
3	Fe 238.204 Radial†	8.3	1.5	16.915 ug/L	16.915 ppb	11:17:20
3	K 766.490 Radial†	2649.2	69.9	13.290 ug/L	13.290 ppb	11:17:00
3	Mg 279.077 IEC†	0.4	-0.1	-2.4152 ug/L	-2.4152 ppb	11:17:20
3	Na 589.592 Radial†	-761.7	-24.2	-8.4436 ug/L	-8.4436 ppb	11:17:00
3	Sr 421.552†	39.4	0.9	0.0068 ug/L	0.0068 ppb	11:17:00
3	Sc 361.383	866043.6	866043.6	102.45 %		11:18:17
3	Y 371.029	730785.9	730785.9	102.50 %		11:18:17
3	Ag 328.068†	146.3	-13.9	-0.0660 ug/L	-0.0660 ppb	11:18:17
3	As 188.979†	-21.7	0.9	0.5327 ug/L	0.5327 ppb	11:18:37
3	B 249.677†	-297.0	157.6	4.4510 ug/L	4.4510 ppb	11:18:37
3	Ba 233.527†	15.4	3.1	0.0307 ug/L	0.0307 ppb	11:18:37
3	Be 313.107†	-4359.1	202.6	0.0866 ug/L	0.0866 ppb	11:18:17
3	Cd 226.502†	-166.6	-14.1	-0.2083 ug/L	-0.2083 ppb	11:18:37
3	Co 228.616†	-48.0	6.8	0.1782 ug/L	0.1782 ppb	11:18:37
3	Cr 267.716†	75.6	3.6	0.0507 ug/L	0.0507 ppb	11:18:37
3	Cu 324.752†	5639.7	-21.4	-0.0707 ug/L	-0.0707 ppb	11:18:17
3	Mn 257.610†	451.7	54.6	0.0744 ug/L	0.0744 ppb	11:18:37
3	Mo 202.031†	15.2	2.0	0.1786 ug/L	0.1786 ppb	11:18:37
3	Ni 231.604†	85.2	10.5	0.3400 ug/L	0.3400 ppb	11:18:37
3	P 214.914†	191.9	-13.4	-10.119 ug/L	-10.119 ppb	11:18:37
3	Pb 220.353†	-42.0	7.9	1.2383 ug/L	1.2383 ppb	11:18:37
3	S 181.975 Axial†	31.4	0.7	1.3196 ug/L	1.3196 ppb	11:18:37
3	Sb 206.836†	28.7	2.5	1.0991 ug/L	1.0991 ppb	11:18:37
3	Se 196.026†	-19.6	3.1	2.6150 ug/L	2.6150 ppb	11:18:37
3	Si 251.611†	650.6	116.2	4.4344 ug/L	4.4344 ppb	11:18:37
3	Sn 189.927†	8.2	4.3	0.9951 ug/L	0.9951 ppb	11:18:37
3	Ti 334.940†	-1033.8	36.5	0.0656 ug/L	0.0656 ppb	11:18:17
3	Tl 190.801†	-28.4	1.4	0.5608 ug/L	0.5608 ppb	11:18:37
3	U 409.014†	-1936.6	52.9	1.5632 ug/L	1.5632 ppb	11:18:17
3	V 292.402†	-1324.7	57.7	0.4649 ug/L	0.4649 ppb	11:18:17
3	Zn 213.857†	669.5	49.2	0.6019 ug/L	0.6019 ppb	11:18:37
3	SiO2†	686.4	133.6	10.843 ug/L	10.843 ppb	11:19:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869690.7	102.88 %		0.394			0.38%
Sc Radial	4742.1	104 %		1.9			1.78%
Y 371.029	734334.0	103.00 %		0.434			0.42%
Y RADIAL	5117.5	104.1 %		1.80			1.73%
Ag 328.068†	61.2	0.3209 ug/L		0.44622	0.3209 ppb	0.44622	139.03%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2.3	2.2897 ug/L		7.71736	2.2897 ppb	7.71736	337.04%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.1	1.1705 ug/L		2.60055	1.1705 ppb	2.60055	222.17%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	167.6	4.7329 ug/L		0.25712	4.7329 ppb	0.25712	5.43%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	1.9	0.0187 ug/L		0.03059	0.0187 ppb	0.03059	163.35%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	222.6	0.0951 ug/L		0.01492	0.0951 ppb	0.01492	15.69%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	5.9	11.226 ug/L		9.0122	11.226 ppb	9.0122	80.28%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	-8.6	-0.1284 ug/L	0.07085	-0.1284 ppb	0.07085	55.19%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	17.0	0.4476 ug/L	0.25256	0.4476 ppb	0.25256	56.42%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	9.0	0.1239 ug/L	0.07170	0.1239 ppb	0.07170	57.85%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	0.1	0.0010 ug/L	0.11371	0.0010 ppb	0.11371	>999.9%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	1.4	16.362 ug/L	11.9367	16.362 ppb	11.9367	72.95%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	53.7	10.213 ug/L	8.1030	10.213 ppb	8.1030	79.34%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	1.3	54.265 ug/L	49.1988	54.265 ppb	49.1988	90.66%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	54.4	0.0718 ug/L	0.02245	0.0718 ppb	0.02245	31.29%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-0.6	-0.0492 ug/L	0.21068	-0.0492 ppb	0.21068	428.58%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	4.2	1.4588 ug/L	8.65250	1.4588 ppb	8.65250	593.12%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	12.0	0.3889 ug/L	0.09064	0.3889 ppb	0.09064	23.31%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-23.2	-17.590 ug/L	6.6442	-17.590 ppb	6.6442	37.77%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	3.8	0.5940 ug/L	0.94910	0.5940 ppb	0.94910	159.79%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	3.7	6.6480 ug/L	4.66539	6.6480 ppb	4.66539	70.18%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	6.0	2.5660 ug/L	3.35531	2.5660 ppb	3.35531	130.76%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-1.7	-1.3335 ug/L	3.42258	-1.3335 ppb	3.42258	256.66%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	137.3	5.2437 ug/L	0.75941	5.2437 ppb	0.75941	14.48%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	5.1	1.1818 ug/L	0.83801	1.1818 ppb	0.83801	70.91%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-0.9	-0.0068 ug/L	0.12110	-0.0068 ppb	0.12110	>999.9%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	12.7	0.0188 ug/L	0.04065	0.0188 ppb	0.04065	216.29%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-0.6	-0.2270 ug/L	0.83526	-0.2270 ppb	0.83526	368.01%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	20.1	0.5919 ug/L	1.37281	0.5919 ppb	1.37281	231.94%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	33.3	0.2657 ug/L	0.17258	0.2657 ppb	0.17258	64.96%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	42.0	0.5133 ug/L	0.10167	0.5133 ppb	0.10167	19.81%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		119.5	9.7002 ug/L	0.99906	9.7002 ppb	0.99906	10.30%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/22/2010 12:02:49

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	4593.6	4593.6	101 %		12:04:41
1	Y RADIAL	4910.8	4910.8	99.88 %		12:04:41
1	Al 396.153Radial†	4959.1	4987.4	4910.0 ug/L	4910.0 ppb	12:04:41
1	Ca 317.933Radial†	2721.5	2678.5	5054.3 ug/L	5054.3 ppb	12:05:01
1	Fe 238.204 Radial†	453.3	442.6	5095.0 ug/L	5095.0 ppb	12:05:01
1	K 766.490 Radial†	29520.6	26742.9	5082.1 ug/L	5082.1 ppb	12:04:41
1	Mg 279.077 IEC†	128.1	126.5	5251.9 ug/L	5251.9 ppb	12:05:01
1	Na 589.592 Radial†	27614.2	28082.0	9805.3 ug/L	9805.3 ppb	12:04:41
1	Sr 421.552†	62969.3	62361.9	488.56 ug/L	488.56 ppb	12:04:41
1	Sc 361.383	867016.2	867016.2	102.57 %		12:05:58
1	Y 371.029	722074.3	722074.3	101.28 %		12:05:58
1	Ag 328.068†	99300.8	96657.5	501.31 ug/L	501.31 ppb	12:06:04
1	As 188.979†	905.5	904.9	514.12 ug/L	514.12 ppb	12:06:24
1	B 249.677†	17607.1	17613.7	495.62 ug/L	495.62 ppb	12:06:04
1	Ba 233.527†	54287.5	52916.1	504.28 ug/L	504.28 ppb	12:06:04
1	Be 313.107†	1201995.0	1176353.8	503.31 ug/L	503.31 ppb	12:05:58
1	Cd 226.502†	35058.3	34328.9	504.25 ug/L	504.25 ppb	12:06:04
1	Co 228.616†	19832.1	19389.1	510.55 ug/L	510.55 ppb	12:06:04
1	Cr 267.716†	38165.1	37139.2	506.02 ug/L	506.02 ppb	12:06:04
1	Cu 324.752†	160442.1	150898.5	499.91 ug/L	499.91 ppb	12:06:04
1	Mn 257.610†	381262.3	371329.1	494.06 ug/L	494.06 ppb	12:06:04
1	Mo 202.031†	5738.9	5582.3	502.79 ug/L	502.79 ppb	12:06:24
1	Ni 231.604†	16308.0	15827.0	511.05 ug/L	511.05 ppb	12:06:04
1	P 214.914†	3619.6	3328.3	2425.2 ug/L	2425.2 ppb	12:06:24
1	Pb 220.353†	3276.2	3243.1	508.72 ug/L	508.72 ppb	12:06:24
1	S 181.975 Axial†	595.4	550.6	996.82 ug/L	996.82 ppb	12:06:24
1	Sb 206.836†	1230.2	1173.9	518.27 ug/L	518.27 ppb	12:06:24
1	Se 196.026†	601.2	608.3	524.43 ug/L	524.43 ppb	12:06:24
1	Si 251.611†	68670.4	66432.0	2530.9 ug/L	2530.9 ppb	12:06:04
1	Sn 189.927†	2237.3	2177.6	502.45 ug/L	502.45 ppb	12:06:24
1	Ti 334.940†	287068.8	280926.0	488.51 ug/L	488.51 ppb	12:06:04
1	Tl 190.801†	1296.3	1292.9	513.46 ug/L	513.46 ppb	12:06:24
1	U 409.014†	15701.7	17251.7	508.73 ug/L	508.73 ppb	12:06:04
1	V 292.402†	63227.0	62994.4	511.32 ug/L	511.32 ppb	12:06:04
1	Zn 213.857†	42770.7	41095.4	501.78 ug/L	501.78 ppb	12:06:04
1	SiO2†	68377.9	66129.4	5355.1 ug/L	5355.1 ppb	12:07:31
2	Sc Radial	4671.6	4671.6	103 %		12:05:06
2	Y RADIAL	4968.5	4968.5	101.0 %		12:05:06
2	Al 396.153Radial†	4976.7	4922.4	4846.1 ug/L	4846.1 ppb	12:05:06
2	Ca 317.933Radial†	2727.3	2639.1	4980.0 ug/L	4980.0 ppb	12:05:26
2	Fe 238.204 Radial†	453.2	434.9	5007.5 ug/L	5007.5 ppb	12:05:26
2	K 766.490 Radial†	29627.2	26358.1	5009.0 ug/L	5009.0 ppb	12:05:06
2	Mg 279.077 IEC†	127.4	123.8	5138.4 ug/L	5138.4 ppb	12:05:26
2	Na 589.592 Radial†	27677.3	27686.3	9667.2 ug/L	9667.2 ppb	12:05:06
2	Sr 421.552†	63811.9	62140.4	486.82 ug/L	486.82 ppb	12:05:06
2	Sc 361.383	873973.1	873973.1	103.39 %		12:06:29
2	Y 371.029	726444.4	726444.4	101.89 %		12:06:29
2	Ag 328.068†	99558.9	96136.6	498.59 ug/L	498.59 ppb	12:06:34
2	As 188.979†	903.6	896.1	509.14 ug/L	509.14 ppb	12:06:54
2	B 249.677†	17764.3	17629.1	496.07 ug/L	496.07 ppb	12:06:34
2	Ba 233.527†	54634.6	52830.5	503.46 ug/L	503.46 ppb	12:06:34
2	Be 313.107†	1213062.3	1177729.7	503.89 ug/L	503.89 ppb	12:06:29
2	Cd 226.502†	35292.6	34283.4	503.59 ug/L	503.59 ppb	12:06:34
2	Co 228.616†	19955.2	19354.3	509.63 ug/L	509.63 ppb	12:06:34
2	Cr 267.716†	38272.8	36947.3	503.39 ug/L	503.39 ppb	12:06:34
2	Cu 324.752†	160971.2	150165.1	497.47 ug/L	497.47 ppb	12:06:34
2	Mn 257.610†	382599.5	369663.4	491.85 ug/L	491.85 ppb	12:06:34
2	Mo 202.031†	5710.4	5510.2	496.30 ug/L	496.30 ppb	12:06:54
2	Ni 231.604†	16390.5	15780.2	509.54 ug/L	509.54 ppb	12:06:34

2	P 214.914†	3627.5	3307.9	2410.2 ug/L	2410.2 ppb	12:06:54
2	Pb 220.353†	3280.8	3222.1	505.43 ug/L	505.43 ppb	12:06:54
2	S 181.975 Axial†	597.0	547.5	991.17 ug/L	991.17 ppb	12:06:54
2	Sb 206.836†	1235.9	1169.9	516.36 ug/L	516.36 ppb	12:06:54
2	Se 196.026†	592.3	595.0	513.05 ug/L	513.05 ppb	12:06:54
2	Si 251.611†	69000.7	66218.6	2522.8 ug/L	2522.8 ppb	12:06:34
2	Sn 189.927†	2238.4	2161.2	498.68 ug/L	498.68 ppb	12:06:54
2	Ti 334.940†	287694.3	279303.1	485.69 ug/L	485.69 ppb	12:06:34
2	Tl 190.801†	1294.1	1280.8	508.65 ug/L	508.65 ppb	12:06:54
2	U 409.014†	15938.6	17358.9	511.91 ug/L	511.91 ppb	12:06:34
2	V 292.402†	63335.4	62608.6	508.16 ug/L	508.16 ppb	12:06:34
2	Zn 213.857†	43034.8	41018.9	500.86 ug/L	500.86 ppb	12:06:34
2	SiO2†	69266.5	66458.1	5381.9 ug/L	5381.9 ppb	12:07:36
3	Sc Radial	4704.2	4704.2	103 %		12:05:31
3	Y RADIAL	5055.6	5055.6	102.8 %		12:05:31
3	Al 396.153Radial†	5064.2	4973.5	4896.5 ug/L	4896.5 ppb	12:05:31
3	Ca 317.933Radial†	2736.1	2629.2	4961.2 ug/L	4961.2 ppb	12:05:51
3	Fe 238.204 Radial†	450.9	429.6	4946.6 ug/L	4946.6 ppb	12:05:51
3	K 766.490 Radial†	29983.6	26503.0	5036.5 ug/L	5036.5 ppb	12:05:31
3	Mg 279.077 IEC†	128.5	123.9	5144.2 ug/L	5144.2 ppb	12:05:51
3	Na 589.592 Radial†	28035.1	27845.7	9722.8 ug/L	9722.8 ppb	12:05:31
3	Sr 421.552†	64515.8	62390.9	488.79 ug/L	488.79 ppb	12:05:31
3	Sc 361.383	870247.9	870247.9	102.95 %		12:07:00
3	Y 371.029	723434.4	723434.4	101.47 %		12:07:00
3	Ag 328.068†	99700.7	96686.5	501.42 ug/L	501.42 ppb	12:07:05
3	As 188.979†	912.2	908.1	515.93 ug/L	515.93 ppb	12:07:25
3	B 249.677†	17856.5	17792.1	500.68 ug/L	500.68 ppb	12:07:05
3	Ba 233.527†	54661.8	53083.1	505.87 ug/L	505.87 ppb	12:07:05
3	Be 313.107†	1211280.2	1181021.0	505.30 ug/L	505.30 ppb	12:07:00
3	Cd 226.502†	35323.2	34459.3	506.18 ug/L	506.18 ppb	12:07:05
3	Co 228.616†	19956.7	19438.4	511.84 ug/L	511.84 ppb	12:07:05
3	Cr 267.716†	38284.0	37116.5	505.69 ug/L	505.69 ppb	12:07:05
3	Cu 324.752†	161359.6	151208.9	500.92 ug/L	500.92 ppb	12:07:05
3	Mn 257.610†	383409.6	372034.4	494.99 ug/L	494.99 ppb	12:07:05
3	Mo 202.031†	5713.1	5536.5	498.66 ug/L	498.66 ppb	12:07:25
3	Ni 231.604†	16434.3	15890.7	513.11 ug/L	513.11 ppb	12:07:05
3	P 214.914†	3600.0	3296.2	2400.7 ug/L	2400.7 ppb	12:07:25
3	Pb 220.353†	3297.0	3251.4	510.03 ug/L	510.03 ppb	12:07:25
3	S 181.975 Axial†	601.5	554.4	1003.6 ug/L	1003.6 ppb	12:07:25
3	Sb 206.836†	1228.0	1167.3	515.32 ug/L	515.32 ppb	12:07:25
3	Se 196.026†	619.8	624.2	537.21 ug/L	537.21 ppb	12:07:25
3	Si 251.611†	69056.6	66558.5	2535.8 ug/L	2535.8 ppb	12:07:05
3	Sn 189.927†	2230.2	2162.6	498.99 ug/L	498.99 ppb	12:07:25
3	Ti 334.940†	288545.4	281321.0	489.19 ug/L	489.19 ppb	12:07:05
3	Tl 190.801†	1303.7	1295.4	514.45 ug/L	514.45 ppb	12:07:25
3	U 409.014†	15839.0	17328.2	511.01 ug/L	511.01 ppb	12:07:05
3	V 292.402†	63552.9	63082.1	511.99 ug/L	511.99 ppb	12:07:05
3	Zn 213.857†	42902.6	41068.6	501.46 ug/L	501.46 ppb	12:07:05
3	SiO2†	69931.4	67390.7	5457.6 ug/L	5457.6 ppb	12:07:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870412.4	102.97 %	0.412			0.40%
Sc Radial	4656.5	102 %	1.2			1.22%
Y 371.029	723984.4	101.55 %	0.314			0.31%
Y RADIAL	4978.3	101.2 %	1.48			1.46%
Ag 328.068†	96493.5	500.44 ug/L	1.605	500.44 ppb	1.605	0.32%
QC value within limits for Ag 328.068 Recovery = 100.09%						
Al 396.153Radial†	4961.1	4884.2 ug/L	33.70	4884.2 ppb	33.70	0.69%
QC value within limits for Al 396.153Radial Recovery = 97.68%						
As 188.979†	903.0	513.06 ug/L	3.514	513.06 ppb	3.514	0.68%
QC value within limits for As 188.979 Recovery = 102.61%						
B 249.677†	17678.3	497.46 ug/L	2.802	497.46 ppb	2.802	0.56%
QC value within limits for B 249.677 Recovery = 99.49%						
Ba 233.527†	52943.3	504.54 ug/L	1.224	504.54 ppb	1.224	0.24%
QC value within limits for Ba 233.527 Recovery = 100.91%						
Be 313.107†	1178368.2	504.16 ug/L	1.026	504.16 ppb	1.026	0.20%
QC value within limits for Be 313.107 Recovery = 100.83%						
Ca 317.933Radial†	2648.9	4998.5 ug/L	49.25	4998.5 ppb	49.25	0.99%

QC value within limits for Ca 317.933 Radial Recovery = 99.97%

Cd 226.502†	34357.2	504.67 ug/L	1.347	504.67 ppb	1.347	0.27%
QC value within limits for Cd 226.502 Recovery = 100.93%						
Co 228.616†	19393.9	510.67 ug/L	1.112	510.67 ppb	1.112	0.22%
QC value within limits for Co 228.616 Recovery = 102.13%						
Cr 267.716†	37067.7	505.04 ug/L	1.431	505.04 ppb	1.431	0.28%
QC value within limits for Cr 267.716 Recovery = 101.01%						
Cu 324.752†	150757.5	499.43 ug/L	1.775	499.43 ppb	1.775	0.36%
QC value within limits for Cu 324.752 Recovery = 99.89%						
Fe 238.204 Radial†	435.7	5016.4 ug/L	74.60	5016.4 ppb	74.60	1.49%
QC value within limits for Fe 238.204 Radial Recovery = 100.33%						
K 766.490 Radial†	26534.7	5042.6 ug/L	36.94	5042.6 ppb	36.94	0.73%
QC value within limits for K 766.490 Radial Recovery = 100.85%						
Mg 279.077 IEC†	124.7	5178.2 ug/L	63.93	5178.2 ppb	63.93	1.23%
QC value within limits for Mg 279.077 IEC Recovery = 103.56%						
Mn 257.610†	371009.0	493.63 ug/L	1.617	493.63 ppb	1.617	0.33%
QC value within limits for Mn 257.610 Recovery = 98.73%						
Mo 202.031†	5543.0	499.25 ug/L	3.286	499.25 ppb	3.286	0.66%
QC value within limits for Mo 202.031 Recovery = 99.85%						
Na 589.592 Radial†	27871.4	9731.8 ug/L	69.51	9731.8 ppb	69.51	0.71%
QC value within limits for Na 589.592 Radial Recovery = 97.32%						
Ni 231.604†	15832.6	511.23 ug/L	1.791	511.23 ppb	1.791	0.35%
QC value within limits for Ni 231.604 Recovery = 102.25%						
P 214.914†	3310.8	2412.0 ug/L	12.34	2412.0 ppb	12.34	0.51%
QC value within limits for P 214.914 Recovery = 96.48%						
Pb 220.353†	3238.9	508.06 ug/L	2.373	508.06 ppb	2.373	0.47%
QC value within limits for Pb 220.353 Recovery = 101.61%						
S 181.975 Axial†	550.9	997.21 ug/L	6.243	997.21 ppb	6.243	0.63%
QC value within limits for S 181.975 Axial Recovery = 99.72%						
Sb 206.836†	1170.4	516.65 ug/L	1.498	516.65 ppb	1.498	0.29%
QC value within limits for Sb 206.836 Recovery = 103.33%						
Se 196.026†	609.2	524.90 ug/L	12.087	524.90 ppb	12.087	2.30%
QC value within limits for Se 196.026 Recovery = 104.98%						
Si 251.611†	66403.0	2529.8 ug/L	6.54	2529.8 ppb	6.54	0.26%
QC value within limits for Si 251.611 Recovery = 101.19%						
Sn 189.927†	2167.1	500.04 ug/L	2.095	500.04 ppb	2.095	0.42%
QC value within limits for Sn 189.927 Recovery = 100.01%						
Sr 421.552†	62297.7	488.06 ug/L	1.074	488.06 ppb	1.074	0.22%
QC value within limits for Sr 421.552 Recovery = 97.61%						
Ti 334.940†	280516.7	487.80 ug/L	1.859	487.80 ppb	1.859	0.38%
QC value within limits for Ti 334.940 Recovery = 97.56%						
Tl 190.801†	1289.7	512.19 ug/L	3.101	512.19 ppb	3.101	0.61%
QC value within limits for Tl 190.801 Recovery = 102.44%						
U 409.014†	17313.0	510.55 ug/L	1.643	510.55 ppb	1.643	0.32%
QC value within limits for U 409.014 Recovery = 102.11%						
V 292.402†	62895.0	510.49 ug/L	2.045	510.49 ppb	2.045	0.40%
QC value within limits for V 292.402 Recovery = 102.10%						
Zn 213.857†	41061.0	501.37 ug/L	0.465	501.37 ppb	0.465	0.09%
QC value within limits for Zn 213.857 Recovery = 100.27%						
SiO2†	66659.4	5398.2 ug/L	53.16	5398.2 ppb	53.16	0.98%
QC value within limits for SiO2 Recovery = 100.95%						

All analyte(s) passed QC.

Sequence No.: 30
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/22/2010 12:09:51
 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	4735.6	4735.6	104 %		12:11:44
1	Y RADIAL	5105.9	5105.9	103.8 %		12:11:44
1	Al 396.153Radial†	-82.3	-6.0	-5.9062 ug/L	-5.9062 ppb	12:12:04
1	Ca 317.933Radial†	25.9	6.5	12.283 ug/L	12.283 ppb	12:12:04
1	Fe 238.204 Radial†	8.2	1.2	14.260 ug/L	14.260 ppb	12:12:04
1	K 766.490 Radial†	2603.9	-7.5	-1.4251 ug/L	-1.4251 ppb	12:11:44
1	Mg 279.077 IEC†	2.0	1.5	62.490 ug/L	62.490 ppb	12:12:04
1	Na 589.592 Radial†	-755.0	-8.0	-2.7901 ug/L	-2.7901 ppb	12:11:44
1	Sr 421.552†	36.5	-2.4	-0.0188 ug/L	-0.0188 ppb	12:11:44
1	Sc 361.383	876712.5	876712.5	103.72 %		12:13:01
1	Y 371.029	740410.3	740410.3	103.85 %		12:13:01
1	Ag 328.068†	151.0	-11.1	-0.0543 ug/L	-0.0543 ppb	12:13:01
1	As 188.979†	-20.9	1.9	1.0975 ug/L	1.0975 ppb	12:13:21
1	B 249.677†	-288.7	169.1	4.7757 ug/L	4.7757 ppb	12:13:21
1	Ba 233.527†	13.0	0.6	0.0082 ug/L	0.0082 ppb	12:13:21
1	Be 313.107†	-4385.5	229.0	0.0981 ug/L	0.0981 ppb	12:13:01
1	Cd 226.502†	-160.0	-5.8	-0.0857 ug/L	-0.0857 ppb	12:13:21
1	Co 228.616†	-41.9	13.2	0.3483 ug/L	0.3483 ppb	12:13:21
1	Cr 267.716†	73.8	1.0	0.0140 ug/L	0.0140 ppb	12:13:21
1	Cu 324.752†	5687.1	-42.6	-0.1444 ug/L	-0.1444 ppb	12:13:01
1	Mn 257.610†	452.7	50.2	0.0655 ug/L	0.0655 ppb	12:13:21
1	Mo 202.031†	16.8	3.3	0.2978 ug/L	0.2978 ppb	12:13:21
1	Ni 231.604†	87.1	11.4	0.3668 ug/L	0.3668 ppb	12:13:21
1	P 214.914†	189.4	-18.1	-13.702 ug/L	-13.702 ppb	12:13:21
1	Pb 220.353†	-47.7	2.9	0.4534 ug/L	0.4534 ppb	12:13:21
1	S 181.975 Axial†	25.0	-5.8	-10.550 ug/L	-10.550 ppb	12:13:21
1	Sb 206.836†	30.6	4.1	1.7438 ug/L	1.7438 ppb	12:13:21
1	Se 196.026†	-20.5	2.4	2.0140 ug/L	2.0140 ppb	12:13:21
1	Si 251.611†	586.0	46.2	1.7615 ug/L	1.7615 ppb	12:13:21
1	Sn 189.927†	1.6	-2.1	-0.4881 ug/L	-0.4881 ppb	12:13:21
1	Ti 334.940†	-1003.4	78.1	0.1294 ug/L	0.1294 ppb	12:13:01
1	Tl 190.801†	-23.6	6.3	2.4857 ug/L	2.4857 ppb	12:13:21
1	U 409.014†	-1768.8	237.7	7.0319 ug/L	7.0319 ppb	12:13:01
1	V 292.402†	-1259.8	136.1	1.1065 ug/L	1.1065 ppb	12:13:01
1	Zn 213.857†	780.6	148.3	1.8235 ug/L	1.8235 ppb	12:13:21
1	SiO2†	578.2	21.2	1.7104 ug/L	1.7104 ppb	12:14:32
2	Sc Radial	4641.2	4641.2	102 %		12:12:09
2	Y RADIAL	5006.5	5006.5	101.8 %		12:12:09
2	Al 396.153Radial†	-69.4	5.1	5.1103 ug/L	5.1103 ppb	12:12:29
2	Ca 317.933Radial†	25.6	6.8	12.802 ug/L	12.802 ppb	12:12:29
2	Fe 238.204 Radial†	9.6	2.8	32.063 ug/L	32.063 ppb	12:12:29
2	K 766.490 Radial†	2448.5	-109.0	-20.734 ug/L	-20.734 ppb	12:12:09
2	Mg 279.077 IEC†	3.1	2.6	108.93 ug/L	108.93 ppb	12:12:29
2	Na 589.592 Radial†	-762.4	-30.0	-10.459 ug/L	-10.459 ppb	12:12:09
2	Sr 421.552†	45.5	7.2	0.0564 ug/L	0.0564 ppb	12:12:09
2	Sc 361.383	875622.3	875622.3	103.59 %		12:13:26
2	Y 371.029	739172.2	739172.2	103.68 %		12:13:26
2	Ag 328.068†	209.8	45.9	0.2456 ug/L	0.2456 ppb	12:13:26
2	As 188.979†	-19.7	3.1	1.7633 ug/L	1.7633 ppb	12:13:46
2	B 249.677†	-319.4	139.1	3.9258 ug/L	3.9258 ppb	12:13:46
2	Ba 233.527†	23.7	10.9	0.1057 ug/L	0.1057 ppb	12:13:46
2	Be 313.107†	-4346.1	261.8	0.1121 ug/L	0.1121 ppb	12:13:26
2	Cd 226.502†	-167.7	-13.4	-0.1988 ug/L	-0.1988 ppb	12:13:46
2	Co 228.616†	-43.5	11.6	0.3035 ug/L	0.3035 ppb	12:13:46
2	Cr 267.716†	78.2	5.3	0.0746 ug/L	0.0746 ppb	12:13:46
2	Cu 324.752†	5718.8	-5.2	-0.0175 ug/L	-0.0175 ppb	12:13:26
2	Mn 257.610†	437.4	36.0	0.0465 ug/L	0.0465 ppb	12:13:46
2	Mo 202.031†	9.0	-4.2	-0.3756 ug/L	-0.3756 ppb	12:13:46
2	Ni 231.604†	103.1	26.9	0.8700 ug/L	0.8700 ppb	12:13:46

2	P 214.914†	187.7	-19.4	-14.726 ug/L	-14.726 ppb	12:13:46
2	Pb 220.353†	-69.4	-18.1	-2.8319 ug/L	-2.8319 ppb	12:13:46
2	S 181.975 Axial†	29.6	-1.3	-2.4140 ug/L	-2.4140 ppb	12:13:46
2	Sb 206.836†	30.9	4.3	1.8726 ug/L	1.8726 ppb	12:13:46
2	Se 196.026†	-19.2	3.7	3.1351 ug/L	3.1351 ppb	12:13:46
2	Si 251.611†	585.8	46.7	1.7883 ug/L	1.7883 ppb	12:13:46
2	Sn 189.927†	12.1	7.9	1.8285 ug/L	1.8285 ppb	12:13:46
2	Ti 334.940†	-981.8	97.7	0.1613 ug/L	0.1613 ppb	12:13:26
2	Tl 190.801†	-30.1	0.1	0.0216 ug/L	0.0216 ppb	12:13:46
2	U 409.014†	-1894.2	114.5	3.3844 ug/L	3.3844 ppb	12:13:26
2	V 292.402†	-1332.8	64.0	0.5111 ug/L	0.5111 ppb	12:13:26
2	Zn 213.857†	776.7	145.6	1.7835 ug/L	1.7835 ppb	12:13:46
2	SiO2†	591.7	34.9	2.8417 ug/L	2.8417 ppb	12:14:52
3	Sc Radial	4745.3	4745.3	104 %		12:12:34
3	Y RADIAL	5114.6	5114.6	104.0 %		12:12:34
3	Al 396.153Radial†	-74.0	2.2	2.1553 ug/L	2.1553 ppb	12:12:54
3	Ca 317.933Radial†	29.6	10.0	18.860 ug/L	18.860 ppb	12:12:54
3	Fe 238.204 Radial†	7.1	0.2	1.7903 ug/L	1.7903 ppb	12:12:54
3	K 766.490 Radial†	2598.9	-17.4	-3.3145 ug/L	-3.3145 ppb	12:12:34
3	Mg 279.077 IEC†	2.3	1.8	73.763 ug/L	73.763 ppb	12:12:54
3	Na 589.592 Radial†	-753.7	-5.3	-1.8410 ug/L	-1.8410 ppb	12:12:34
3	Sr 421.552†	49.8	10.3	0.0807 ug/L	0.0807 ppb	12:12:34
3	Sc 361.383	867644.5	867644.5	102.64 %		12:13:51
3	Y 371.029	732213.8	732213.8	102.70 %		12:13:51
3	Ag 328.068†	230.9	68.3	0.3545 ug/L	0.3545 ppb	12:13:51
3	As 188.979†	-21.8	0.9	0.4911 ug/L	0.4911 ppb	12:14:11
3	B 249.677†	-284.8	169.9	4.8026 ug/L	4.8026 ppb	12:14:11
3	Ba 233.527†	20.6	8.1	0.0786 ug/L	0.0786 ppb	12:14:11
3	Be 313.107†	-4353.2	216.2	0.0920 ug/L	0.0920 ppb	12:13:51
3	Cd 226.502†	-171.9	-19.0	-0.2794 ug/L	-0.2794 ppb	12:14:11
3	Co 228.616†	-43.3	11.4	0.3007 ug/L	0.3007 ppb	12:14:11
3	Cr 267.716†	64.2	-7.6	-0.1030 ug/L	-0.1030 ppb	12:14:11
3	Cu 324.752†	5555.5	-113.5	-0.3763 ug/L	-0.3763 ppb	12:13:51
3	Mn 257.610†	431.9	34.5	0.0431 ug/L	0.0431 ppb	12:14:11
3	Mo 202.031†	9.3	-3.9	-0.3478 ug/L	-0.3478 ppb	12:14:11
3	Ni 231.604†	88.6	13.7	0.4431 ug/L	0.4431 ppb	12:14:11
3	P 214.914†	173.7	-31.5	-23.766 ug/L	-23.766 ppb	12:14:11
3	Pb 220.353†	-59.3	-8.9	-1.3927 ug/L	-1.3927 ppb	12:14:11
3	S 181.975 Axial†	29.4	-1.2	-2.1881 ug/L	-2.1881 ppb	12:14:11
3	Sb 206.836†	29.2	3.0	1.2689 ug/L	1.2689 ppb	12:14:11
3	Se 196.026†	-21.4	1.4	1.1343 ug/L	1.1343 ppb	12:14:11
3	Si 251.611†	565.0	31.6	1.2106 ug/L	1.2106 ppb	12:14:11
3	Sn 189.927†	6.4	2.5	0.5834 ug/L	0.5834 ppb	12:14:11
3	Ti 334.940†	-1160.8	-85.4	-0.1522 ug/L	-0.1522 ppb	12:13:51
3	Tl 190.801†	-21.9	7.7	3.0402 ug/L	3.0402 ppb	12:14:11
3	U 409.014†	-1977.4	16.6	0.4921 ug/L	0.4921 ppb	12:13:51
3	V 292.402†	-1305.7	78.6	0.6270 ug/L	0.6270 ppb	12:13:51
3	Zn 213.857†	765.8	141.8	1.7452 ug/L	1.7452 ppb	12:14:11
3	SiO2†	585.3	33.8	2.7572 ug/L	2.7572 ppb	12:15:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	873326.4	103.31 %	0.586			0.57%
Sc Radial	4707.3	103 %	1.3			1.22%
Y 371.029	737265.4	103.41 %	0.620			0.60%
Y RADIAL	5075.7	103.2 %	1.22			1.18%
Ag 328.068†	34.4	0.1819 ug/L	0.21166	0.1819 ppb	0.21166	116.35%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.5	0.4531 ug/L	5.70210	0.4531 ppb	5.70210	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.0	1.1173 ug/L	0.63633	1.1173 ppb	0.63633	56.95%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	159.4	4.5014 ug/L	0.49864	4.5014 ppb	0.49864	11.08%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.5	0.0642 ug/L	0.05031	0.0642 ppb	0.05031	78.40%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	235.6	0.1007 ug/L	0.01035	0.1007 ppb	0.01035	10.27%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.8	14.648 ug/L	3.6563	14.648 ppb	3.6563	24.96%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-12.8	-0.1880 ug/L	0.09731	-0.1880 ppb	0.09731	51.77%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	12.1	0.3175 ug/L	0.02673	0.3175 ppb	0.02673	8.42%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-0.5	-0.0048 ug/L	0.09028	-0.0048 ppb	0.09028	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-53.8	-0.1794 ug/L	0.18193	-0.1794 ppb	0.18193	101.41%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.4	16.038 ug/L	15.2146	16.038 ppb	15.2146	94.87%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-44.6	-8.4912 ug/L	10.64453	-8.4912 ppb	10.64453	125.36%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.0	81.726 ug/L	24.2200	81.726 ppb	24.2200	29.64%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	40.2	0.0517 ug/L	0.01210	0.0517 ppb	0.01210	23.40%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.6	-0.1418 ug/L	0.38101	-0.1418 ppb	0.38101	268.64%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-14.4	-5.0299 ug/L	4.72534	-5.0299 ppb	4.72534	93.94%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	17.3	0.5600 ug/L	0.27121	0.5600 ppb	0.27121	48.43%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-23.0	-17.398 ug/L	5.5387	-17.398 ppb	5.5387	31.83%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-8.0	-1.2571 ug/L	1.64687	-1.2571 ppb	1.64687	131.01%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-2.8	-5.0506 ug/L	4.76373	-5.0506 ppb	4.76373	94.32%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.8	1.6284 ug/L	0.31797	1.6284 ppb	0.31797	19.53%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.5	2.0945 ug/L	1.00283	2.0945 ppb	1.00283	47.88%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	41.5	1.5868 ug/L	0.32606	1.5868 ppb	0.32606	20.55%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.8	0.6413 ug/L	1.15942	0.6413 ppb	1.15942	180.81%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	5.0	0.0394 ug/L	0.05187	0.0394 ppb	0.05187	131.55%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	30.1	0.0461 ug/L	0.17252	0.0461 ppb	0.17252	373.95%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.7	1.8492 ug/L	1.60679	1.8492 ppb	1.60679	86.89%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	123.0	3.6361 ug/L	3.27716	3.6361 ppb	3.27716	90.13%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	92.9	0.7482 ug/L	0.31567	0.7482 ppb	0.31567	42.19%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	145.2	1.7841 ug/L	0.03916	1.7841 ppb	0.03916	2.19%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	30.0	2.4364 ug/L	0.63017	2.4364 ppb	0.63017	25.86%	
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: 3/22/2010 13:04:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4688.6	4688.6	103 %		13:06:18
1	Y RADIAL	5000.5	5000.5	101.7 %		13:06:18
1	Al 396.153Radial†	5121.9	5045.8	4968.1 ug/L	4968.1 ppb	13:06:18
1	Ca 317.933Radial†	2735.2	2637.1	4976.2 ug/L	4976.2 ppb	13:06:38
1	Fe 238.204 Radial†	460.3	440.3	5068.9 ug/L	5068.9 ppb	13:06:38
1	K 766.490 Radial†	30309.2	26915.5	5114.9 ug/L	5114.9 ppb	13:06:18
1	Mg 279.077 IEC†	128.8	124.7	5176.3 ug/L	5176.3 ppb	13:06:38
1	Na 589.592 Radial†	28995.1	28867.9	10080 ug/L	10080 ppb	13:06:18
1	Sr 421.552†	66017.3	64056.0	501.83 ug/L	501.83 ppb	13:06:18
1	Sc 361.383	873826.2	873826.2	103.37 %		13:07:35
1	Y 371.029	727463.6	727463.6	102.04 %		13:07:35
1	Ag 328.068†	101479.7	98010.9	508.30 ug/L	508.30 ppb	13:07:41
1	As 188.979†	908.6	901.0	512.03 ug/L	512.03 ppb	13:08:01
1	B 249.677†	18294.4	18144.8	510.61 ug/L	510.61 ppb	13:07:41
1	Ba 233.527†	55613.2	53786.1	512.57 ug/L	512.57 ppb	13:07:41
1	Be 313.107†	1232239.5	1196478.2	511.92 ug/L	511.92 ppb	13:07:35
1	Cd 226.502†	35863.5	34841.4	511.79 ug/L	511.79 ppb	13:07:41
1	Co 228.616†	20303.2	19694.2	518.56 ug/L	518.56 ppb	13:07:41
1	Cr 267.716†	39028.0	37684.0	513.43 ug/L	513.43 ppb	13:07:41
1	Cu 324.752†	164740.0	153837.1	509.63 ug/L	509.63 ppb	13:07:41
1	Mn 257.610†	390104.9	376986.1	501.59 ug/L	501.59 ppb	13:07:41
1	Mo 202.031†	5733.4	5533.4	498.39 ug/L	498.39 ppb	13:08:01
1	Ni 231.604†	16702.0	16084.3	519.36 ug/L	519.36 ppb	13:07:41
1	P 214.914†	3625.8	3306.8	2406.9 ug/L	2406.9 ppb	13:08:01
1	Pb 220.353†	3301.6	3242.8	508.67 ug/L	508.67 ppb	13:08:01
1	S 181.975 Axial†	598.7	549.3	994.31 ug/L	994.31 ppb	13:08:01
1	Sb 206.836†	1231.3	1165.7	514.65 ug/L	514.65 ppb	13:08:01
1	Se 196.026†	604.4	606.8	523.13 ug/L	523.13 ppb	13:08:01
1	Si 251.611†	70359.6	67544.4	2573.4 ug/L	2573.4 ppb	13:07:41
1	Sn 189.927†	2247.2	2170.2	500.74 ug/L	500.74 ppb	13:08:01
1	Ti 334.940†	294305.3	285745.2	496.88 ug/L	496.88 ppb	13:07:41
1	Tl 190.801†	1296.1	1282.9	509.56 ug/L	509.56 ppb	13:08:01
1	U 409.014†	16264.2	17676.5	521.28 ug/L	521.28 ppb	13:07:41
1	V 292.402†	64608.3	63850.3	518.13 ug/L	518.13 ppb	13:07:41
1	Zn 213.857†	43701.6	41671.0	508.81 ug/L	508.81 ppb	13:07:41
1	SiO2†	68300.6	65535.0	5306.9 ug/L	5306.9 ppb	13:09:08
2	Sc Radial	4690.9	4690.9	103 %		13:06:43
2	Y RADIAL	4997.4	4997.4	101.6 %		13:06:43
2	Al 396.153Radial†	5061.5	4984.8	4907.8 ug/L	4907.8 ppb	13:06:43
2	Ca 317.933Radial†	2743.1	2643.5	4988.3 ug/L	4988.3 ppb	13:07:03
2	Fe 238.204 Radial†	452.7	432.7	4981.3 ug/L	4981.3 ppb	13:07:03
2	K 766.490 Radial†	30082.8	26681.5	5070.4 ug/L	5070.4 ppb	13:06:43
2	Mg 279.077 IEC†	127.8	123.7	5134.0 ug/L	5134.0 ppb	13:07:03
2	Na 589.592 Radial†	28508.1	28381.6	9910.0 ug/L	9910.0 ppb	13:06:43
2	Sr 421.552†	64814.6	62857.7	492.44 ug/L	492.44 ppb	13:06:43
2	Sc 361.383	874216.8	874216.8	103.42 %		13:08:06
2	Y 371.029	725956.6	725956.6	101.82 %		13:08:06
2	Ag 328.068†	99665.2	96212.5	498.97 ug/L	498.97 ppb	13:08:11
2	As 188.979†	902.3	894.6	508.29 ug/L	508.29 ppb	13:08:31
2	B 249.677†	17800.5	17659.3	496.93 ug/L	496.93 ppb	13:08:11
2	Ba 233.527†	54645.8	52826.6	503.42 ug/L	503.42 ppb	13:08:11
2	Be 313.107†	1220620.1	1184710.5	506.87 ug/L	506.87 ppb	13:08:06
2	Cd 226.502†	35285.4	34266.9	503.35 ug/L	503.35 ppb	13:08:11
2	Co 228.616†	19908.7	19303.9	508.30 ug/L	508.30 ppb	13:08:11
2	Cr 267.716†	38249.8	36914.7	502.95 ug/L	502.95 ppb	13:08:11
2	Cu 324.752†	161470.2	150604.2	498.92 ug/L	498.92 ppb	13:08:11
2	Mn 257.610†	382741.9	369698.0	491.89 ug/L	491.89 ppb	13:08:11
2	Mo 202.031†	5691.8	5490.7	494.54 ug/L	494.54 ppb	13:08:31
2	Ni 231.604†	16356.8	15743.3	508.35 ug/L	508.35 ppb	13:08:11

2	P 214.914†	3599.1	3279.4	2388.3 ug/L	2388.3 ppb	13:08:31
2	Pb 220.353†	3268.0	3208.9	503.37 ug/L	503.37 ppb	13:08:31
2	S 181.975 Axial†	586.7	537.4	972.83 ug/L	972.83 ppb	13:08:31
2	Sb 206.836†	1227.0	1160.9	512.47 ug/L	512.47 ppb	13:08:31
2	Se 196.026†	592.4	595.0	512.98 ug/L	512.98 ppb	13:08:31
2	Si 251.611†	69042.8	66240.6	2523.7 ug/L	2523.7 ppb	13:08:11
2	Sn 189.927†	2229.1	2151.7	496.49 ug/L	496.49 ppb	13:08:31
2	Ti 334.940†	288053.8	279573.1	486.16 ug/L	486.16 ppb	13:08:11
2	Tl 190.801†	1291.9	1278.2	507.66 ug/L	507.66 ppb	13:08:31
2	U 409.014†	15944.1	17360.0	511.95 ug/L	511.95 ppb	13:08:11
2	V 292.402†	63392.1	62646.4	508.44 ug/L	508.44 ppb	13:08:11
2	Zn 213.857†	42850.2	40828.8	498.53 ug/L	498.53 ppb	13:08:11
2	SiO2†	69258.5	66431.7	5379.8 ug/L	5379.8 ppb	13:09:13
3	Sc Radial	4500.5	4500.5	98.9 %		13:07:08
3	Y RADIAL	4800.5	4800.5	97.63 %		13:07:08
3	Al 396.153Radial†	4899.6	5028.8	4951.5 ug/L	4951.5 ppb	13:07:08
3	Ca 317.933Radial†	2746.3	2759.3	5206.8 ug/L	5206.8 ppb	13:07:28
3	Fe 238.204 Radial†	458.7	457.3	5263.6 ug/L	5263.6 ppb	13:07:28
3	K 766.490 Radial†	29139.1	26962.0	5123.7 ug/L	5123.7 ppb	13:07:08
3	Mg 279.077 IEC†	127.9	128.9	5351.7 ug/L	5351.7 ppb	13:07:28
3	Na 589.592 Radial†	27397.2	28428.3	9926.3 ug/L	9926.3 ppb	13:07:08
3	Sr 421.552†	62486.3	63163.6	494.84 ug/L	494.84 ppb	13:07:08
3	Sc 361.383	883793.6	883793.6	104.55 %		13:08:37
3	Y 371.029	734156.4	734156.4	102.98 %		13:08:37
3	Ag 328.068†	99675.6	95178.2	493.71 ug/L	493.71 ppb	13:08:42
3	As 188.979†	905.8	888.4	504.85 ug/L	504.85 ppb	13:09:02
3	B 249.677†	17875.3	17544.3	493.64 ug/L	493.64 ppb	13:08:42
3	Ba 233.527†	54545.7	52158.4	497.07 ug/L	497.07 ppb	13:08:42
3	Be 313.107†	1219384.9	1170739.9	500.89 ug/L	500.89 ppb	13:08:37
3	Cd 226.502†	35228.3	33842.7	497.08 ug/L	497.08 ppb	13:08:42
3	Co 228.616†	20004.1	19186.5	505.21 ug/L	505.21 ppb	13:08:42
3	Cr 267.716†	38280.7	36543.4	497.93 ug/L	497.93 ppb	13:08:42
3	Cu 324.752†	161078.9	148538.1	492.10 ug/L	492.10 ppb	13:08:42
3	Mn 257.610†	382570.6	365524.0	486.36 ug/L	486.36 ppb	13:08:42
3	Mo 202.031†	5716.8	5455.0	491.35 ug/L	491.35 ppb	13:09:02
3	Ni 231.604†	16381.1	15595.1	503.56 ug/L	503.56 ppb	13:08:42
3	P 214.914†	3601.1	3243.7	2362.3 ug/L	2362.3 ppb	13:09:02
3	Pb 220.353†	3283.6	3189.5	500.31 ug/L	500.31 ppb	13:09:02
3	S 181.975 Axial†	594.2	538.4	974.61 ug/L	974.61 ppb	13:09:02
3	Sb 206.836†	1235.6	1156.3	510.39 ug/L	510.39 ppb	13:09:02
3	Se 196.026†	599.4	595.5	514.22 ug/L	514.22 ppb	13:09:02
3	Si 251.611†	68996.8	65473.3	2494.4 ug/L	2494.4 ppb	13:08:42
3	Sn 189.927†	2238.5	2137.3	493.20 ug/L	493.20 ppb	13:09:02
3	Ti 334.940†	287938.1	276444.4	480.73 ug/L	480.73 ppb	13:08:42
3	Tl 190.801†	1295.7	1268.4	503.72 ug/L	503.72 ppb	13:09:02
3	U 409.014†	15838.7	17092.1	504.00 ug/L	504.00 ppb	13:08:42
3	V 292.402†	63304.4	61898.3	502.36 ug/L	502.36 ppb	13:08:42
3	Zn 213.857†	42841.8	40371.8	492.89 ug/L	492.89 ppb	13:08:42
3	SiO2†	69938.5	66356.4	5373.8 ug/L	5373.8 ppb	13:09:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	877278.9	103.78 %	0.668			0.64%
Sc Radial	4626.7	102 %	2.4			2.36%
Y 371.029	729192.2	102.28 %	0.612			0.60%
Y RADIAL	4932.8	100.3 %	2.33			2.32%
Ag 328.068†	96467.2	500.32 ug/L	7.390	500.32 ppb	7.390	1.48%
QC value within limits for Ag 328.068 Recovery = 100.06%						
Al 396.153Radial†	5019.8	4942.5 ug/L	31.12	4942.5 ppb	31.12	0.63%
QC value within limits for Al 396.153Radial Recovery = 98.85%						
As 188.979†	894.7	508.39 ug/L	3.592	508.39 ppb	3.592	0.71%
QC value within limits for As 188.979 Recovery = 101.68%						
B 249.677†	17782.8	500.40 ug/L	8.998	500.40 ppb	8.998	1.80%
QC value within limits for B 249.677 Recovery = 100.08%						
Ba 233.527†	52923.7	504.35 ug/L	7.793	504.35 ppb	7.793	1.55%
QC value within limits for Ba 233.527 Recovery = 100.87%						
Be 313.107†	1183976.2	506.56 ug/L	5.519	506.56 ppb	5.519	1.09%
QC value within limits for Be 313.107 Recovery = 101.31%						
Ca 317.933Radial†	2680.0	5057.1 ug/L	129.79	5057.1 ppb	129.79	2.57%

QC value within limits for Ca 317.933 Radial Recovery = 101.14%

Cd 226.502†	34317.0	504.07 ug/L	7.380	504.07 ppb	7.380	1.46%
QC value within limits for Cd 226.502 Recovery = 100.81%						
Co 228.616†	19394.9	510.69 ug/L	6.989	510.69 ppb	6.989	1.37%
QC value within limits for Co 228.616 Recovery = 102.14%						
Cr 267.716†	37047.4	504.77 ug/L	7.910	504.77 ppb	7.910	1.57%
QC value within limits for Cr 267.716 Recovery = 100.95%						
Cu 324.752†	150993.1	500.22 ug/L	8.839	500.22 ppb	8.839	1.77%
QC value within limits for Cu 324.752 Recovery = 100.04%						
Fe 238.204 Radial†	443.4	5104.6 ug/L	144.48	5104.6 ppb	144.48	2.83%
QC value within limits for Fe 238.204 Radial Recovery = 102.09%						
K 766.490 Radial†	26853.0	5103.0 ug/L	28.56	5103.0 ppb	28.56	0.56%
QC value within limits for K 766.490 Radial Recovery = 102.06%						
Mg 279.077 IEC†	125.8	5220.7 ug/L	115.46	5220.7 ppb	115.46	2.21%
QC value within limits for Mg 279.077 IEC Recovery = 104.41%						
Mn 257.610†	370736.0	493.28 ug/L	7.709	493.28 ppb	7.709	1.56%
QC value within limits for Mn 257.610 Recovery = 98.66%						
Mo 202.031†	5493.0	494.76 ug/L	3.523	494.76 ppb	3.523	0.71%
QC value within limits for Mo 202.031 Recovery = 98.95%						
Na 589.592 Radial†	28559.3	9972.0 ug/L	93.67	9972.0 ppb	93.67	0.94%
QC value within limits for Na 589.592 Radial Recovery = 99.72%						
Ni 231.604†	15807.6	510.42 ug/L	8.100	510.42 ppb	8.100	1.59%
QC value within limits for Ni 231.604 Recovery = 102.08%						
P 214.914†	3276.6	2385.9 ug/L	22.40	2385.9 ppb	22.40	0.94%
QC value within limits for P 214.914 Recovery = 95.44%						
Pb 220.353†	3213.7	504.11 ug/L	4.231	504.11 ppb	4.231	0.84%
QC value within limits for Pb 220.353 Recovery = 100.82%						
S 181.975 Axial†	541.7	980.59 ug/L	11.920	980.59 ppb	11.920	1.22%
QC value within limits for S 181.975 Axial Recovery = 98.06%						
Sb 206.836†	1161.0	512.50 ug/L	2.129	512.50 ppb	2.129	0.42%
QC value within limits for Sb 206.836 Recovery = 102.50%						
Se 196.026†	599.1	516.78 ug/L	5.539	516.78 ppb	5.539	1.07%
QC value within limits for Se 196.026 Recovery = 103.36%						
Si 251.611†	66419.4	2530.5 ug/L	39.94	2530.5 ppb	39.94	1.58%
QC value within limits for Si 251.611 Recovery = 101.22%						
Sn 189.927†	2153.1	496.81 ug/L	3.780	496.81 ppb	3.780	0.76%
QC value within limits for Sn 189.927 Recovery = 99.36%						
Sr 421.552†	63359.1	496.37 ug/L	4.878	496.37 ppb	4.878	0.98%
QC value within limits for Sr 421.552 Recovery = 99.27%						
Ti 334.940†	280587.6	487.93 ug/L	8.218	487.93 ppb	8.218	1.68%
QC value within limits for Ti 334.940 Recovery = 97.59%						
Tl 190.801†	1276.5	506.98 ug/L	2.982	506.98 ppb	2.982	0.59%
QC value within limits for Tl 190.801 Recovery = 101.40%						
U 409.014†	17376.2	512.41 ug/L	8.649	512.41 ppb	8.649	1.69%
QC value within limits for U 409.014 Recovery = 102.48%						
V 292.402†	62798.3	509.65 ug/L	7.954	509.65 ppb	7.954	1.56%
QC value within limits for V 292.402 Recovery = 101.93%						
Zn 213.857†	40957.2	500.08 ug/L	8.071	500.08 ppb	8.071	1.61%
QC value within limits for Zn 213.857 Recovery = 100.02%						
SiO2†	66107.7	5353.5 ug/L	40.46	5353.5 ppb	40.46	0.76%
QC value within limits for SiO2 Recovery = 100.11%						

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 13:11:27

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	4731.0	4731.0	104 %		13:13:20
1	Y RADIAL	5093.6	5093.6	103.6 %		13:13:20
1	Al 396.153Radial†	-68.9	6.8	6.7857 ug/L	6.7857 ppb	13:13:40
1	Ca 317.933Radial†	28.0	8.6	16.142 ug/L	16.142 ppb	13:13:40
1	Fe 238.204 Radial†	9.5	2.5	28.611 ug/L	28.611 ppb	13:13:40
1	K 766.490 Radial†	2636.8	26.6	5.0602 ug/L	5.0602 ppb	13:13:20
1	Mg 279.077 IEC†	2.2	1.7	71.344 ug/L	71.344 ppb	13:13:40
1	Na 589.592 Radial†	-747.5	-1.4	-0.5019 ug/L	-0.5019 ppb	13:13:20
1	Sr 421.552†	32.7	-6.0	-0.0471 ug/L	-0.0471 ppb	13:13:20
1	Sc 361.383	871263.9	871263.9	103.07 %		13:14:37
1	Y 371.029	736095.4	736095.4	103.25 %		13:14:37
1	Ag 328.068†	217.0	53.9	0.2872 ug/L	0.2872 ppb	13:14:37
1	As 188.979†	-28.6	-5.7	-3.1892 ug/L	-3.1892 ppb	13:14:57
1	B 249.677†	-238.5	216.0	6.1010 ug/L	6.1010 ppb	13:14:57
1	Ba 233.527†	6.2	-6.0	-0.0543 ug/L	-0.0543 ppb	13:14:57
1	Be 313.107†	-4372.1	215.5	0.0919 ug/L	0.0919 ppb	13:14:37
1	Cd 226.502†	-161.7	-8.4	-0.1259 ug/L	-0.1259 ppb	13:14:57
1	Co 228.616†	-37.2	17.6	0.4612 ug/L	0.4612 ppb	13:14:57
1	Cr 267.716†	59.5	-12.4	-0.1659 ug/L	-0.1659 ppb	13:14:57
1	Cu 324.752†	5664.9	-29.9	-0.0989 ug/L	-0.0989 ppb	13:14:37
1	Mn 257.610†	425.0	26.0	0.0345 ug/L	0.0345 ppb	13:14:57
1	Mo 202.031†	8.8	-4.4	-0.3925 ug/L	-0.3925 ppb	13:14:57
1	Ni 231.604†	87.6	12.4	0.3988 ug/L	0.3988 ppb	13:14:57
1	P 214.914†	179.9	-26.1	-19.798 ug/L	-19.798 ppb	13:14:57
1	Pb 220.353†	-47.4	2.9	0.4463 ug/L	0.4463 ppb	13:14:57
1	S 181.975 Axial†	29.1	-1.6	-2.9797 ug/L	-2.9797 ppb	13:14:57
1	Sb 206.836†	29.2	2.8	1.2062 ug/L	1.2062 ppb	13:14:57
1	Se 196.026†	-18.3	4.4	3.7585 ug/L	3.7585 ppb	13:14:57
1	Si 251.611†	579.2	43.1	1.6522 ug/L	1.6522 ppb	13:14:57
1	Sn 189.927†	4.4	0.6	0.1347 ug/L	0.1347 ppb	13:14:57
1	Ti 334.940†	-1106.5	-28.0	-0.0533 ug/L	-0.0533 ppb	13:14:37
1	Tl 190.801†	-14.1	15.4	6.0833 ug/L	6.0833 ppb	13:14:57
1	U 409.014†	-1919.3	81.0	2.3942 ug/L	2.3942 ppb	13:14:37
1	V 292.402†	-1305.0	84.6	0.6738 ug/L	0.6738 ppb	13:14:37
1	Zn 213.857†	769.3	142.1	1.7442 ug/L	1.7442 ppb	13:14:57
1	SiO2†	559.7	6.7	0.5561 ug/L	0.5561 ppb	13:15:53
2	Sc Radial	4695.7	4695.7	103 %		13:13:45
2	Y RADIAL	5045.4	5045.4	102.6 %		13:13:45
2	Al 396.153Radial†	-81.6	-5.9	-5.8775 ug/L	-5.8775 ppb	13:14:05
2	Ca 317.933Radial†	26.8	7.6	14.340 ug/L	14.340 ppb	13:14:05
2	Fe 238.204 Radial†	9.8	2.8	32.585 ug/L	32.585 ppb	13:14:05
2	K 766.490 Radial†	2676.5	84.1	16.003 ug/L	16.003 ppb	13:13:45
2	Mg 279.077 IEC†	2.8	2.3	96.451 ug/L	96.451 ppb	13:14:05
2	Na 589.592 Radial†	-751.7	-10.9	-3.8099 ug/L	-3.8099 ppb	13:13:45
2	Sr 421.552†	39.3	0.6	0.0049 ug/L	0.0049 ppb	13:13:45
2	Sc 361.383	860152.4	860152.4	101.76 %		13:15:02
2	Y 371.029	726371.4	726371.4	101.88 %		13:15:02
2	Ag 328.068†	229.7	69.0	0.3653 ug/L	0.3653 ppb	13:15:02
2	As 188.979†	-24.9	-2.4	-1.3333 ug/L	-1.3333 ppb	13:15:22
2	B 249.677†	-243.0	208.7	5.8933 ug/L	5.8933 ppb	13:15:22
2	Ba 233.527†	15.5	3.3	0.0320 ug/L	0.0320 ppb	13:15:22
2	Be 313.107†	-4394.7	138.5	0.0593 ug/L	0.0593 ppb	13:15:02
2	Cd 226.502†	-160.8	-9.6	-0.1445 ug/L	-0.1445 ppb	13:15:22
2	Co 228.616†	-53.2	1.4	0.0361 ug/L	0.0361 ppb	13:15:22
2	Cr 267.716†	78.4	6.9	0.0971 ug/L	0.0971 ppb	13:15:22
2	Cu 324.752†	5719.9	95.1	0.3174 ug/L	0.3174 ppb	13:15:02
2	Mn 257.610†	438.0	44.2	0.0580 ug/L	0.0580 ppb	13:15:22
2	Mo 202.031†	18.3	5.1	0.4618 ug/L	0.4618 ppb	13:15:22
2	Ni 231.604†	74.8	0.9	0.0302 ug/L	0.0302 ppb	13:15:22

2	P 214.914†	184.8	-19.0	-14.533 ug/L	-14.533 ppb	13:15:22
2	Pb 220.353†	-39.6	10.0	1.5556 ug/L	1.5556 ppb	13:15:22
2	S 181.975 Axial†	28.7	-1.7	-3.1311 ug/L	-3.1311 ppb	13:15:22
2	Sb 206.836†	25.1	-0.8	-0.3531 ug/L	-0.3531 ppb	13:15:22
2	Se 196.026†	-16.3	6.2	5.2303 ug/L	5.2303 ppb	13:15:22
2	Si 251.611†	559.5	31.0	1.1785 ug/L	1.1785 ppb	13:15:22
2	Sn 189.927†	1.1	-2.7	-0.6164 ug/L	-0.6164 ppb	13:15:22
2	Ti 334.940†	-1015.4	47.7	0.0774 ug/L	0.0774 ppb	13:15:02
2	Tl 190.801†	-21.1	8.4	3.3144 ug/L	3.3144 ppb	13:15:22
2	U 409.014†	-2009.3	-31.5	-0.9356 ug/L	-0.9356 ppb	13:15:02
2	V 292.402†	-1406.3	-31.3	-0.2494 ug/L	-0.2494 ppb	13:15:02
2	Zn 213.857†	761.8	144.3	1.7733 ug/L	1.7733 ppb	13:15:22
2	SiO2†	545.1	-0.6	-0.0653 ug/L	-0.0653 ppb	13:15:58
3	Sc Radial	4722.5	4722.5	104 %		13:14:10
3	Y RADIAL	5077.0	5077.0	103.3 %		13:14:10
3	Al 396.153Radial†	-64.5	10.9	10.814 ug/L	10.814 ppb	13:14:30
3	Ca 317.933Radial†	28.4	9.0	17.067 ug/L	17.067 ppb	13:14:30
3	Fe 238.204 Radial†	6.0	-0.8	-9.4548 ug/L	-9.4548 ppb	13:14:30
3	K 766.490 Radial†	2532.2	-69.7	-13.257 ug/L	-13.257 ppb	13:14:10
3	Mg 279.077 IEC†	-2.5	-2.8	-117.46 ug/L	-117.46 ppb	13:14:30
3	Na 589.592 Radial†	-819.7	-72.4	-25.264 ug/L	-25.264 ppb	13:14:10
3	Sr 421.552†	39.3	0.4	0.0034 ug/L	0.0034 ppb	13:14:10
3	Sc 361.383	880003.0	880003.0	104.10 %		13:15:27
3	Y 371.029	742578.6	742578.6	104.16 %		13:15:27
3	Ag 328.068†	245.6	79.3	0.4100 ug/L	0.4100 ppb	13:15:27
3	As 188.979†	-22.7	0.3	0.1660 ug/L	0.1660 ppb	13:15:47
3	B 249.677†	-255.7	201.8	5.7065 ug/L	5.7065 ppb	13:15:47
3	Ba 233.527†	21.1	8.3	0.0817 ug/L	0.0817 ppb	13:15:47
3	Be 313.107†	-4416.4	215.1	0.0918 ug/L	0.0918 ppb	13:15:27
3	Cd 226.502†	-157.8	-3.1	-0.0445 ug/L	-0.0445 ppb	13:15:47
3	Co 228.616†	-47.4	8.1	0.2143 ug/L	0.2143 ppb	13:15:47
3	Cr 267.716†	64.4	-8.4	-0.1131 ug/L	-0.1131 ppb	13:15:47
3	Cu 324.752†	5731.7	-20.3	-0.0685 ug/L	-0.0685 ppb	13:15:27
3	Mn 257.610†	426.9	23.7	0.0354 ug/L	0.0354 ppb	13:15:47
3	Mo 202.031†	18.1	4.4	0.3990 ug/L	0.3990 ppb	13:15:47
3	Ni 231.604†	94.5	18.2	0.5865 ug/L	0.5865 ppb	13:15:47
3	P 214.914†	183.6	-24.3	-18.410 ug/L	-18.410 ppb	13:15:47
3	Pb 220.353†	-52.6	-1.6	-0.2458 ug/L	-0.2458 ppb	13:15:47
3	S 181.975 Axial†	28.5	-2.5	-4.5141 ug/L	-4.5141 ppb	13:15:47
3	Sb 206.836†	27.3	0.8	0.3601 ug/L	0.3601 ppb	13:15:47
3	Se 196.026†	-15.9	6.9	5.6931 ug/L	5.6931 ppb	13:15:47
3	Si 251.611†	552.6	12.0	0.4541 ug/L	0.4541 ppb	13:15:47
3	Sn 189.927†	9.7	5.6	1.2900 ug/L	1.2900 ppb	13:15:47
3	Ti 334.940†	-1090.0	-1.5	0.0087 ug/L	0.0087 ppb	13:15:27
3	Tl 190.801†	-20.3	9.6	3.7932 ug/L	3.7932 ppb	13:15:47
3	U 409.014†	-1977.8	43.4	1.2848 ug/L	1.2848 ppb	13:15:27
3	V 292.402†	-1223.0	175.9	1.4166 ug/L	1.4166 ppb	13:15:27
3	Zn 213.857†	755.8	121.7	1.4972 ug/L	1.4972 ppb	13:15:47
3	SiO2†	619.1	58.3	4.7234 ug/L	4.7234 ppb	13:16:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870473.1	102.98 %	1.177			1.14%
Sc Radial	4716.4	104 %	0.4			0.39%
Y 371.029	735015.1	103.10 %	1.144			1.11%
Y RADIAL	5072.0	103.2 %	0.50			0.48%
Ag 328.068†	67.4	0.3542 ug/L	0.06216	0.3542 ppb	0.06216	17.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.0	3.9074 ug/L	8.71008	3.9074 ppb	8.71008	222.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.6	-1.4522 ug/L	1.68071	-1.4522 ppb	1.68071	115.74%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	208.9	5.9003 ug/L	0.19731	5.9003 ppb	0.19731	3.34%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.9	0.0198 ug/L	0.06882	0.0198 ppb	0.06882	347.86%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	189.7	0.0810 ug/L	0.01879	0.0810 ppb	0.01879	23.20%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8.4	15.850 ug/L	1.3867	15.850 ppb	1.3867	8.75%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	-7.0	-0.1050 ug/L	0.05319	-0.1050 ppb	0.05319	50.68%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	9.0	0.2372 ug/L	0.21348	0.2372 ppb	0.21348	90.01%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-4.6	-0.0606 ug/L	0.13915	-0.0606 ppb	0.13915	229.57%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	15.0	0.0500 ug/L	0.23203	0.0500 ppb	0.23203	463.97%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	1.5	17.247 ug/L	23.2096	17.247 ppb	23.2096	134.57%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	13.7	2.6023 ug/L	14.78409	2.6023 ppb	14.78409	568.12%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	0.4	16.780 ug/L	116.9279	16.780 ppb	116.9279	696.84%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	31.3	0.0426 ug/L	0.01330	0.0426 ppb	0.01330	31.20%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	1.7	0.1561 ug/L	0.47614	0.1561 ppb	0.47614	305.04%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	-28.2	-9.8584 ug/L	13.44334	-9.8584 ppb	13.44334	136.36%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	10.5	0.3385 ug/L	0.28299	0.3385 ppb	0.28299	83.61%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	-23.2	-17.580 ug/L	2.7288	-17.580 ppb	2.7288	15.52%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	3.7	0.5854 ug/L	0.90870	0.5854 ppb	0.90870	155.24%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	-2.0	-3.5416 ug/L	0.84556	-3.5416 ppb	0.84556	23.87%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	0.9	0.4044 ug/L	0.78061	0.4044 ppb	0.78061	193.03%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	5.8	4.8940 ug/L	1.01021	4.8940 ppb	1.01021	20.64%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	28.7	1.0949 ug/L	0.60342	1.0949 ppb	0.60342	55.11%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	1.2	0.2694 ug/L	0.96032	0.2694 ppb	0.96032	356.44%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-1.6	-0.0129 ug/L	0.02959	-0.0129 ppb	0.02959	228.96%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	6.1	0.0109 ug/L	0.06537	0.0109 ppb	0.06537	598.49%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	11.1	4.3969 ug/L	1.47989	4.3969 ppb	1.47989	33.66%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	31.0	0.9145 ug/L	1.69550	0.9145 ppb	1.69550	185.41%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	76.4	0.6137 ug/L	0.83463	0.6137 ppb	0.83463	136.00%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	136.0	1.6716 ug/L	0.15168	1.6716 ppb	0.15168	9.07%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	21.5	1.7381 ug/L	2.60396	1.7381 ppb	2.60396	149.82%			
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 16
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/22/2010 14:07:31
 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	4726.5	4726.5	104 %		14:09:23
1	Y RADIAL	5052.9	5052.9	102.8 %		14:09:23
1	Al 396.153Radial†	5105.1	4989.7	4912.7 ug/L	4912.7 ppb	14:09:23
1	Ca 317.933Radial†	2755.6	2635.5	4973.2 ug/L	4973.2 ppb	14:09:43
1	Fe 238.204 Radial†	459.9	436.3	5023.2 ug/L	5023.2 ppb	14:09:43
1	K 766.490 Radial†	30467.5	26832.1	5099.0 ug/L	5099.0 ppb	14:09:23
1	Mg 279.077 IEC†	130.4	125.2	5198.9 ug/L	5198.9 ppb	14:09:43
1	Na 589.592 Radial†	29067.1	28711.6	10025 ug/L	10025 ppb	14:09:23
1	Sr 421.552†	65649.4	63187.9	495.03 ug/L	495.03 ppb	14:09:23
1	Sc 361.383	876357.8	876357.8	103.67 %		14:10:40
1	Y 371.029	726686.6	726686.6	101.93 %		14:10:40
1	Ag 328.068†	101572.7	97817.0	507.28 ug/L	507.28 ppb	14:10:46
1	As 188.979†	894.2	884.6	502.77 ug/L	502.77 ppb	14:11:06
1	B 249.677†	18223.2	18025.0	507.23 ug/L	507.23 ppb	14:10:46
1	Ba 233.527†	55769.6	53781.6	512.52 ug/L	512.52 ppb	14:10:46
1	Be 313.107†	1222621.0	1183757.1	506.48 ug/L	506.48 ppb	14:10:40
1	Cd 226.502†	36094.1	34963.6	513.59 ug/L	513.59 ppb	14:10:46
1	Co 228.616†	20423.0	19752.9	520.10 ug/L	520.10 ppb	14:10:46
1	Cr 267.716†	38980.6	37529.3	511.32 ug/L	511.32 ppb	14:10:46
1	Cu 324.752†	164763.0	153398.9	508.18 ug/L	508.18 ppb	14:10:46
1	Mn 257.610†	392768.8	378465.5	503.55 ug/L	503.55 ppb	14:10:40
1	Mo 202.031†	5712.9	5497.6	495.16 ug/L	495.16 ppb	14:11:06
1	Ni 231.604†	16742.9	16077.1	519.12 ug/L	519.12 ppb	14:10:46
1	P 214.914†	3623.2	3294.2	2397.6 ug/L	2397.6 ppb	14:11:06
1	Pb 220.353†	3282.9	3215.5	504.40 ug/L	504.40 ppb	14:11:06
1	S 181.975 Axial†	599.0	547.9	991.86 ug/L	991.86 ppb	14:11:06
1	Sb 206.836†	1233.0	1163.9	513.69 ug/L	513.69 ppb	14:11:06
1	Se 196.026†	607.9	608.5	524.39 ug/L	524.39 ppb	14:11:06
1	Si 251.611†	70816.5	67788.4	2582.8 ug/L	2582.8 ppb	14:10:46
1	Sn 189.927†	2221.3	2138.9	493.52 ug/L	493.52 ppb	14:11:06
1	Ti 334.940†	294594.0	285201.2	495.94 ug/L	495.94 ppb	14:10:46
1	Tl 190.801†	1300.2	1283.2	509.68 ug/L	509.68 ppb	14:11:06
1	U 409.014†	16232.3	17600.3	519.04 ug/L	519.04 ppb	14:10:46
1	V 292.402†	64539.5	63603.4	516.11 ug/L	516.11 ppb	14:10:46
1	Zn 213.857†	43838.5	41680.9	508.94 ug/L	508.94 ppb	14:10:46
1	SiO2†	70084.0	67064.4	5431.2 ug/L	5431.2 ppb	14:12:13
2	Sc Radial	4607.7	4607.7	101 %		14:09:48
2	Y RADIAL	4914.5	4914.5	99.95 %		14:09:48
2	Al 396.153Radial†	4945.1	4958.6	4882.0 ug/L	4882.0 ppb	14:09:48
2	Ca 317.933Radial†	2759.0	2707.3	5108.6 ug/L	5108.6 ppb	14:10:08
2	Fe 238.204 Radial†	463.1	450.9	5190.7 ug/L	5190.7 ppb	14:10:08
2	K 766.490 Radial†	29709.4	26840.1	5100.5 ug/L	5100.5 ppb	14:09:48
2	Mg 279.077 IEC†	127.8	125.8	5224.3 ug/L	5224.3 ppb	14:10:08
2	Na 589.592 Radial†	28174.8	28552.3	9969.5 ug/L	9969.5 ppb	14:09:48
2	Sr 421.552†	63825.7	63017.3	493.69 ug/L	493.69 ppb	14:09:48
2	Sc 361.383	880618.2	880618.2	104.18 %		14:11:11
2	Y 371.029	731931.5	731931.5	102.66 %		14:11:11
2	Ag 328.068†	100715.5	96520.2	500.63 ug/L	500.63 ppb	14:11:17
2	As 188.979†	903.9	889.7	505.64 ug/L	505.64 ppb	14:11:37
2	B 249.677†	18110.8	17832.0	501.77 ug/L	501.77 ppb	14:11:17
2	Ba 233.527†	55353.1	53121.5	506.24 ug/L	506.24 ppb	14:11:17
2	Be 313.107†	1229626.6	1184776.3	506.90 ug/L	506.90 ppb	14:11:11
2	Cd 226.502†	35868.3	34578.4	507.90 ug/L	507.90 ppb	14:11:17
2	Co 228.616†	20241.7	19483.6	513.01 ug/L	513.01 ppb	14:11:17
2	Cr 267.716†	38804.0	37177.8	506.55 ug/L	506.55 ppb	14:11:17
2	Cu 324.752†	163052.2	150987.9	500.21 ug/L	500.21 ppb	14:11:17
2	Mn 257.610†	393550.1	377382.6	502.12 ug/L	502.12 ppb	14:11:11
2	Mo 202.031†	5711.4	5469.4	492.65 ug/L	492.65 ppb	14:11:37
2	Ni 231.604†	16585.1	15847.4	511.71 ug/L	511.71 ppb	14:11:17

2	P 214.914†	3622.8	3276.9	2386.0 ug/L	2386.0 ppb	14:11:37
2	Pb 220.353†	3293.4	3210.3	503.55 ug/L	503.55 ppb	14:11:37
2	S 181.975 Axial†	602.1	548.0	992.13 ug/L	992.13 ppb	14:11:37
2	Sb 206.836†	1245.8	1170.4	516.40 ug/L	516.40 ppb	14:11:37
2	Se 196.026†	605.8	603.7	520.81 ug/L	520.81 ppb	14:11:37
2	Si 251.611†	70139.5	66808.1	2545.4 ug/L	2545.4 ppb	14:11:17
2	Sn 189.927†	2233.7	2140.4	493.89 ug/L	493.89 ppb	14:11:37
2	Ti 334.940†	292008.1	281344.2	489.25 ug/L	489.25 ppb	14:11:17
2	Tl 190.801†	1292.1	1269.4	504.20 ug/L	504.20 ppb	14:11:37
2	U 409.014†	15898.9	17204.6	507.32 ug/L	507.32 ppb	14:11:17
2	V 292.402†	64111.3	62891.2	510.34 ug/L	510.34 ppb	14:11:17
2	Zn 213.857†	43547.1	41196.6	503.01 ug/L	503.01 ppb	14:11:17
2	SiO2†	69867.0	66529.0	5387.8 ug/L	5387.8 ppb	14:12:18
3	Sc Radial	4609.5	4609.5	101 %		14:10:13
3	Y RADIAL	4951.8	4951.8	100.7 %		14:10:13
3	Al 396.153Radial†	5004.3	5015.1	4938.1 ug/L	4938.1 ppb	14:10:13
3	Ca 317.933Radial†	2784.9	2731.8	5154.9 ug/L	5154.9 ppb	14:10:33
3	Fe 238.204 Radial†	464.4	452.0	5202.7 ug/L	5202.7 ppb	14:10:33
3	K 766.490 Radial†	30010.0	27125.3	5154.8 ug/L	5154.8 ppb	14:10:13
3	Mg 279.077 IEC†	130.5	128.4	5332.0 ug/L	5332.0 ppb	14:10:33
3	Na 589.592 Radial†	28374.1	28738.1	10034 ug/L	10034 ppb	14:10:13
3	Sr 421.552†	64247.4	63408.9	496.76 ug/L	496.76 ppb	14:10:13
3	Sc 361.383	890690.8	890690.8	105.37 %		14:11:42
3	Y 371.029	739272.7	739272.7	103.69 %		14:11:42
3	Ag 328.068†	100383.1	95111.4	493.34 ug/L	493.34 ppb	14:11:48
3	As 188.979†	912.9	888.5	504.89 ug/L	504.89 ppb	14:12:08
3	B 249.677†	17998.0	17528.3	493.21 ug/L	493.21 ppb	14:11:48
3	Ba 233.527†	55111.6	52291.4	498.33 ug/L	498.33 ppb	14:11:48
3	Be 313.107†	1244048.9	1185115.8	507.03 ug/L	507.03 ppb	14:11:42
3	Cd 226.502†	35639.5	33971.9	498.99 ug/L	498.99 ppb	14:11:48
3	Co 228.616†	20116.9	19145.5	504.12 ug/L	504.12 ppb	14:11:48
3	Cr 267.716†	38563.1	36527.9	497.71 ug/L	497.71 ppb	14:11:48
3	Cu 324.752†	162285.5	148490.2	491.93 ug/L	491.93 ppb	14:11:48
3	Mn 257.610†	398723.2	378020.0	502.97 ug/L	502.97 ppb	14:11:42
3	Mo 202.031†	5739.0	5433.7	489.43 ug/L	489.43 ppb	14:12:08
3	Ni 231.604†	16501.8	15588.3	503.34 ug/L	503.34 ppb	14:11:48
3	P 214.914†	3646.3	3259.9	2374.7 ug/L	2374.7 ppb	14:12:08
3	Pb 220.353†	3317.4	3197.2	501.51 ug/L	501.51 ppb	14:12:08
3	S 181.975 Axial†	597.9	537.5	973.08 ug/L	973.08 ppb	14:12:08
3	Sb 206.836†	1241.9	1153.2	508.90 ug/L	508.90 ppb	14:12:08
3	Se 196.026†	611.9	602.9	520.20 ug/L	520.20 ppb	14:12:08
3	Si 251.611†	69762.5	65689.0	2502.7 ug/L	2502.7 ppb	14:11:48
3	Sn 189.927†	2228.9	2111.6	487.27 ug/L	487.27 ppb	14:12:08
3	Ti 334.940†	290588.7	276827.3	481.39 ug/L	481.39 ppb	14:11:48
3	Tl 190.801†	1285.0	1248.6	496.01 ug/L	496.01 ppb	14:12:08
3	U 409.014†	15986.9	17115.4	504.70 ug/L	504.70 ppb	14:11:48
3	V 292.402†	63806.2	61905.7	502.40 ug/L	502.40 ppb	14:11:48
3	Zn 213.857†	43276.9	40467.5	494.08 ug/L	494.08 ppb	14:11:48
3	SiO2†	69534.1	65454.7	5300.7 ug/L	5300.7 ppb	14:12:23

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	882555.6	104.41 %	0.871			0.83%
Sc Radial	4647.9	102 %	1.5			1.47%
Y 371.029	732630.3	102.76 %	0.887			0.86%
Y RADIAL	4973.0	101.1 %	1.46			1.44%
Ag 328.068†	96482.8	500.42 ug/L	6.970	500.42 ppb	6.970	1.39%
QC value within limits for Ag 328.068 Recovery = 100.08%						
Al 396.153Radial†	4987.8	4910.9 ug/L	28.09	4910.9 ppb	28.09	0.57%
QC value within limits for Al 396.153Radial Recovery = 98.22%						
As 188.979†	887.6	504.43 ug/L	1.489	504.43 ppb	1.489	0.30%
QC value within limits for As 188.979 Recovery = 100.89%						
B 249.677†	17795.1	500.73 ug/L	7.068	500.73 ppb	7.068	1.41%
QC value within limits for B 249.677 Recovery = 100.15%						
Ba 233.527†	53064.8	505.70 ug/L	7.111	505.70 ppb	7.111	1.41%
QC value within limits for Ba 233.527 Recovery = 101.14%						
Be 313.107†	1184549.7	506.81 ug/L	0.286	506.81 ppb	0.286	0.06%
QC value within limits for Be 313.107 Recovery = 101.36%						
Ca 317.933Radial†	2691.5	5078.9 ug/L	94.45	5078.9 ppb	94.45	1.86%

QC value within limits for Ca 317.933 Radial Recovery = 101.58%							
Cd 226.502†	34504.7	506.83 ug/L	7.360	506.83 ppb	7.360	1.45%	
QC value within limits for Cd 226.502 Recovery = 101.37%							
Co 228.616†	19460.7	512.41 ug/L	8.007	512.41 ppb	8.007	1.56%	
QC value within limits for Co 228.616 Recovery = 102.48%							
Cr 267.716†	37078.3	505.19 ug/L	6.906	505.19 ppb	6.906	1.37%	
QC value within limits for Cr 267.716 Recovery = 101.04%							
Cu 324.752†	150959.0	500.11 ug/L	8.123	500.11 ppb	8.123	1.62%	
QC value within limits for Cu 324.752 Recovery = 100.02%							
Fe 238.204 Radial†	446.4	5138.9 ug/L	100.34	5138.9 ppb	100.34	1.95%	
QC value within limits for Fe 238.204 Radial Recovery = 102.78%							
K 766.490 Radial†	26932.5	5118.1 ug/L	31.75	5118.1 ppb	31.75	0.62%	
QC value within limits for K 766.490 Radial Recovery = 102.36%							
Mg 279.077 IEC†	126.5	5251.7 ug/L	70.68	5251.7 ppb	70.68	1.35%	
QC value within limits for Mg 279.077 IEC Recovery = 105.03%							
Mn 257.610†	377956.0	502.88 ug/L	0.716	502.88 ppb	0.716	0.14%	
QC value within limits for Mn 257.610 Recovery = 100.58%							
Mo 202.031†	5466.9	492.41 ug/L	2.875	492.41 ppb	2.875	0.58%	
QC value within limits for Mo 202.031 Recovery = 98.48%							
Na 589.592 Radial†	28667.3	10010 ug/L	35.1	10010 ppb	35.1	0.35%	
QC value within limits for Na 589.592 Radial Recovery = 100.10%							
Ni 231.604†	15837.6	511.39 ug/L	7.896	511.39 ppb	7.896	1.54%	
QC value within limits for Ni 231.604 Recovery = 102.28%							
P 214.914†	3277.0	2386.1 ug/L	11.47	2386.1 ppb	11.47	0.48%	
QC value within limits for P 214.914 Recovery = 95.44%							
Pb 220.353†	3207.7	503.15 ug/L	1.483	503.15 ppb	1.483	0.29%	
QC value within limits for Pb 220.353 Recovery = 100.63%							
S 181.975 Axial†	544.5	985.69 ug/L	10.918	985.69 ppb	10.918	1.11%	
QC value within limits for S 181.975 Axial Recovery = 98.57%							
Sb 206.836†	1162.5	513.00 ug/L	3.795	513.00 ppb	3.795	0.74%	
QC value within limits for Sb 206.836 Recovery = 102.60%							
Se 196.026†	605.1	521.80 ug/L	2.261	521.80 ppb	2.261	0.43%	
QC value within limits for Se 196.026 Recovery = 104.36%							
Si 251.611†	66761.8	2543.6 ug/L	40.08	2543.6 ppb	40.08	1.58%	
QC value within limits for Si 251.611 Recovery = 101.74%							
Sn 189.927†	2130.3	491.56 ug/L	3.722	491.56 ppb	3.722	0.76%	
QC value within limits for Sn 189.927 Recovery = 98.31%							
Sr 421.552†	63204.7	495.16 ug/L	1.538	495.16 ppb	1.538	0.31%	
QC value within limits for Sr 421.552 Recovery = 99.03%							
Ti 334.940†	281124.3	488.86 ug/L	7.279	488.86 ppb	7.279	1.49%	
QC value within limits for Ti 334.940 Recovery = 97.77%							
Tl 190.801†	1267.1	503.30 ug/L	6.878	503.30 ppb	6.878	1.37%	
QC value within limits for Tl 190.801 Recovery = 100.66%							
U 409.014†	17306.8	510.35 ug/L	7.635	510.35 ppb	7.635	1.50%	
QC value within limits for U 409.014 Recovery = 102.07%							
V 292.402†	62800.1	509.62 ug/L	6.884	509.62 ppb	6.884	1.35%	
QC value within limits for V 292.402 Recovery = 101.92%							
Zn 213.857†	41115.0	502.01 ug/L	7.480	502.01 ppb	7.480	1.49%	
QC value within limits for Zn 213.857 Recovery = 100.40%							
SiO2†	66349.3	5373.2 ug/L	66.47	5373.2 ppb	66.47	1.24%	
QC value within limits for SiO2 Recovery = 100.48%							
All analyte(s) passed QC.							

Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 14:14:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4462.0	4462.0	98.0 %		14:16:46
1	Y RADIAL	5335.8	5335.8	108.5 %		14:16:26
1	Al 396.153Radial†	-68.0	3.8	3.7826 ug/L	3.7826 ppb	14:16:46
1	Ca 317.933Radial†	26.4	8.6	16.169 ug/L	16.169 ppb	14:16:46
1	Fe 238.204 Radial†	8.5	2.0	23.020 ug/L	23.020 ppb	14:16:46
1	K 766.490 Radial†	2691.6	235.4	44.790 ug/L	44.790 ppb	14:16:26
1	Mg 279.077 IEC†	2.0	1.6	66.100 ug/L	66.100 ppb	14:16:46
1	Na 589.592 Radial†	-738.8	-35.9	-12.546 ug/L	-12.546 ppb	14:16:26
1	Sr 421.552†	14.2	-22.9	-0.1797 ug/L	-0.1797 ppb	14:16:26
1	Sc 361.383	873374.9	873374.9	103.32 %		14:17:43
1	Y 371.029	735996.5	735996.5	103.23 %		14:17:43
1	Ag 328.068†	246.4	81.8	0.4305 ug/L	0.4305 ppb	14:17:43
1	As 188.979†	-28.5	-5.5	-3.0702 ug/L	-3.0702 ppb	14:18:03
1	B 249.677†	-245.8	209.5	5.9184 ug/L	5.9184 ppb	14:18:03
1	Ba 233.527†	14.1	1.7	0.0176 ug/L	0.0176 ppb	14:18:03
1	Be 313.107†	-4442.4	157.8	0.0677 ug/L	0.0677 ppb	14:17:43
1	Cd 226.502†	-179.0	-24.7	-0.3661 ug/L	-0.3661 ppb	14:18:03
1	Co 228.616†	-42.2	12.8	0.3363 ug/L	0.3363 ppb	14:18:03
1	Cr 267.716†	67.1	-5.2	-0.0680 ug/L	-0.0680 ppb	14:18:03
1	Cu 324.752†	5690.3	-18.6	-0.0603 ug/L	-0.0603 ppb	14:17:43
1	Mn 257.610†	446.7	46.1	0.0609 ug/L	0.0609 ppb	14:18:03
1	Mo 202.031†	15.1	1.7	0.1535 ug/L	0.1535 ppb	14:18:03
1	Ni 231.604†	69.3	-5.6	-0.1807 ug/L	-0.1807 ppb	14:18:03
1	P 214.914†	192.0	-14.9	-11.282 ug/L	-11.282 ppb	14:18:03
1	Pb 220.353†	-39.1	11.0	1.7251 ug/L	1.7251 ppb	14:18:03
1	S 181.975 Axial†	33.0	2.0	3.6559 ug/L	3.6559 ppb	14:18:03
1	Sb 206.836†	30.4	4.0	1.6881 ug/L	1.6881 ppb	14:18:03
1	Se 196.026†	-16.4	6.3	5.3452 ug/L	5.3452 ppb	14:18:03
1	Si 251.611†	658.6	118.7	4.5297 ug/L	4.5297 ppb	14:18:03
1	Sn 189.927†	0.5	-3.3	-0.7475 ug/L	-0.7475 ppb	14:18:03
1	Ti 334.940†	-1001.5	76.2	0.1295 ug/L	0.1295 ppb	14:17:43
1	Tl 190.801†	-33.0	-2.8	-1.1153 ug/L	-1.1153 ppb	14:18:03
1	U 409.014†	-2014.4	-6.5	-0.1943 ug/L	-0.1943 ppb	14:17:43
1	V 292.402†	-1331.4	62.1	0.4971 ug/L	0.4971 ppb	14:17:43
1	Zn 213.857†	791.2	161.5	1.9882 ug/L	1.9882 ppb	14:18:03
1	SiO2†	654.3	96.9	7.8643 ug/L	7.8643 ppb	14:18:59
2	Sc Radial	4444.1	4444.1	97.6 %		14:17:11
2	Y RADIAL	4989.1	4989.1	101.5 %		14:16:51
2	Al 396.153Radial†	-81.9	-10.7	-10.577 ug/L	-10.577 ppb	14:17:11
2	Ca 317.933Radial†	29.4	11.7	22.148 ug/L	22.148 ppb	14:17:11
2	Fe 238.204 Radial†	9.3	2.9	33.488 ug/L	33.488 ppb	14:17:11
2	K 766.490 Radial†	2569.6	121.6	23.126 ug/L	23.126 ppb	14:16:51
2	Mg 279.077 IEC†	3.0	2.7	110.10 ug/L	110.10 ppb	14:17:11
2	Na 589.592 Radial†	-726.3	-26.2	-9.1316 ug/L	-9.1316 ppb	14:16:51
2	Sr 421.552†	29.3	-7.4	-0.0581 ug/L	-0.0581 ppb	14:16:51
2	Sc 361.383	863818.3	863818.3	102.19 %		14:18:08
2	Y 371.029	728445.3	728445.3	102.17 %		14:18:08
2	Ag 328.068†	110.5	-48.6	-0.2432 ug/L	-0.2432 ppb	14:18:08
2	As 188.979†	-20.1	2.5	1.3891 ug/L	1.3891 ppb	14:18:29
2	B 249.677†	-257.6	195.3	5.5156 ug/L	5.5156 ppb	14:18:29
2	Ba 233.527†	17.9	5.6	0.0541 ug/L	0.0541 ppb	14:18:29
2	Be 313.107†	-4353.7	197.0	0.0841 ug/L	0.0841 ppb	14:18:08
2	Cd 226.502†	-159.0	-7.1	-0.1063 ug/L	-0.1063 ppb	14:18:29
2	Co 228.616†	-47.9	6.7	0.1764 ug/L	0.1764 ppb	14:18:29
2	Cr 267.716†	79.2	7.3	0.1019 ug/L	0.1019 ppb	14:18:29
2	Cu 324.752†	5757.9	108.5	0.3588 ug/L	0.3588 ppb	14:18:08
2	Mn 257.610†	446.4	50.5	0.0660 ug/L	0.0660 ppb	14:18:29
2	Mo 202.031†	11.9	-1.2	-0.1078 ug/L	-0.1078 ppb	14:18:29
2	Ni 231.604†	93.6	18.9	0.6116 ug/L	0.6116 ppb	14:18:29

2	P 214.914†	197.4	-7.5	-5.7719 ug/L	-5.7719 ppb	14:18:29
2	Pb 220.353†	-53.7	-3.7	-0.5827 ug/L	-0.5827 ppb	14:18:29
2	S 181.975 Axial†	37.6	6.9	12.504 ug/L	12.504 ppb	14:18:29
2	Sb 206.836†	22.4	-3.5	-1.4753 ug/L	-1.4753 ppb	14:18:29
2	Se 196.026†	-25.8	-3.0	-2.4307 ug/L	-2.4307 ppb	14:18:29
2	Si 251.611†	643.8	111.1	4.2458 ug/L	4.2458 ppb	14:18:29
2	Sn 189.927†	12.0	8.0	1.8470 ug/L	1.8470 ppb	14:18:29
2	Ti 334.940†	-1061.7	6.6	0.0034 ug/L	0.0034 ppb	14:18:08
2	Tl 190.801†	-30.7	-0.9	-0.3623 ug/L	-0.3623 ppb	14:18:29
2	U 409.014†	-1832.5	149.9	4.4311 ug/L	4.4311 ppb	14:18:08
2	V 292.402†	-1359.8	20.0	0.1645 ug/L	0.1645 ppb	14:18:08
2	Zn 213.857†	771.9	151.1	1.8527 ug/L	1.8527 ppb	14:18:29
2	SiO2†	816.7	262.8	21.341 ug/L	21.341 ppb	14:19:04
3	Sc Radial	4459.3	4459.3	98.0 %		14:17:37
3	Y RADIAL	5029.7	5029.7	102.3 %		14:17:16
3	Al 396.153Radial†	-73.5	-1.9	-1.8746 ug/L	-1.8746 ppb	14:17:37
3	Ca 317.933Radial†	25.2	7.4	13.929 ug/L	13.929 ppb	14:17:37
3	Fe 238.204 Radial†	8.6	2.2	25.108 ug/L	25.108 ppb	14:17:37
3	K 766.490 Radial†	2721.3	267.5	50.893 ug/L	50.893 ppb	14:17:16
3	Mg 279.077 IEC†	2.1	1.7	71.923 ug/L	71.923 ppb	14:17:37
3	Na 589.592 Radial†	-746.1	-43.9	-15.315 ug/L	-15.315 ppb	14:17:16
3	Sr 421.552†	-0.9	-38.4	-0.3010 ug/L	-0.3010 ppb	14:17:16
3	Sc 361.383	869652.4	869652.4	102.88 %		14:18:34
3	Y 371.029	733738.6	733738.6	102.92 %		14:18:34
3	Ag 328.068†	216.0	53.3	0.2853 ug/L	0.2853 ppb	14:18:34
3	As 188.979†	-23.2	-0.4	-0.2397 ug/L	-0.2397 ppb	14:18:54
3	B 249.677†	-259.4	195.3	5.5174 ug/L	5.5174 ppb	14:18:54
3	Ba 233.527†	13.1	0.8	0.0092 ug/L	0.0092 ppb	14:18:54
3	Be 313.107†	-4354.9	224.3	0.0959 ug/L	0.0959 ppb	14:18:34
3	Cd 226.502†	-171.7	-18.4	-0.2737 ug/L	-0.2737 ppb	14:18:54
3	Co 228.616†	-52.0	3.1	0.0821 ug/L	0.0821 ppb	14:18:54
3	Cr 267.716†	87.4	14.8	0.2053 ug/L	0.2053 ppb	14:18:54
3	Cu 324.752†	5779.8	92.0	0.3070 ug/L	0.3070 ppb	14:18:34
3	Mn 257.610†	451.4	52.5	0.0693 ug/L	0.0693 ppb	14:18:54
3	Mo 202.031†	18.9	5.5	0.4928 ug/L	0.4928 ppb	14:18:54
3	Ni 231.604†	86.0	11.0	0.3549 ug/L	0.3549 ppb	14:18:54
3	P 214.914†	198.6	-7.6	-5.8742 ug/L	-5.8742 ppb	14:18:54
3	Pb 220.353†	-49.7	0.6	0.0840 ug/L	0.0840 ppb	14:18:54
3	S 181.975 Axial†	34.4	3.6	6.4810 ug/L	6.4810 ppb	14:18:54
3	Sb 206.836†	30.0	3.7	1.6135 ug/L	1.6135 ppb	14:18:54
3	Se 196.026†	-13.4	9.1	7.6930 ug/L	7.6930 ppb	14:18:54
3	Si 251.611†	640.7	104.0	3.9644 ug/L	3.9644 ppb	14:18:54
3	Sn 189.927†	6.0	2.1	0.4863 ug/L	0.4863 ppb	14:18:54
3	Ti 334.940†	-1037.0	37.6	0.0620 ug/L	0.0620 ppb	14:18:34
3	Tl 190.801†	-21.1	8.5	3.3730 ug/L	3.3730 ppb	14:18:54
3	U 409.014†	-2054.5	-53.8	-1.5945 ug/L	-1.5945 ppb	14:18:34
3	V 292.402†	-1327.5	60.3	0.4848 ug/L	0.4848 ppb	14:18:34
3	Zn 213.857†	756.2	130.7	1.6046 ug/L	1.6046 ppb	14:18:54
3	SiO2†	600.2	47.1	3.8102 ug/L	3.8102 ppb	14:19:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	868948.5	102.80 %		0.570			0.55%
Sc Radial	4455.1	97.9 %		0.21			0.22%
Y 371.029	732726.8	102.77 %		0.544			0.53%
Y RADIAL	5118.2	104.1 %		3.85			3.70%
Ag 328.068†	28.8	0.1575 ug/L		0.35457	0.1575 ppb	0.35457	225.09%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-2.9	-2.8897 ug/L		7.23353	-2.8897 ppb	7.23353	250.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.1	-0.6403 ug/L		2.25649	-0.6403 ppb	2.25649	352.41%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	200.1	5.6505 ug/L		0.23205	5.6505 ppb	0.23205	4.11%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	2.7	0.0270 ug/L		0.02390	0.0270 ppb	0.02390	88.67%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	193.0	0.0826 ug/L		0.01420	0.0826 ppb	0.01420	17.20%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	9.2	17.415 ug/L		4.2490	17.415 ppb	4.2490	24.40%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	-16.8	-0.2487 ug/L	0.13168	-0.2487 ppb	0.13168	52.94%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	7.5	0.1983 ug/L	0.12847	0.1983 ppb	0.12847	64.80%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	5.6	0.0797 ug/L	0.13801	0.0797 ppb	0.13801	173.10%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	60.6	0.2018 ug/L	0.22846	0.2018 ppb	0.22846	113.20%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	2.4	27.205 ug/L	5.5404	27.205 ppb	5.5404	20.37%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	208.1	39.603 ug/L	14.5924	39.603 ppb	14.5924	36.85%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.0	82.709 ug/L	23.9023	82.709 ppb	23.9023	28.90%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	49.7	0.0654 ug/L	0.00425	0.0654 ppb	0.00425	6.50%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	2.0	0.1795 ug/L	0.30116	0.1795 ppb	0.30116	167.80%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-35.3	-12.331 ug/L	3.0974	-12.331 ppb	3.0974	25.12%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	8.1	0.2619 ug/L	0.40424	0.2619 ppb	0.40424	154.33%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-10.0	-7.6428 ug/L	3.15228	-7.6428 ppb	3.15228	41.25%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	2.6	0.4088 ug/L	1.18769	0.4088 ppb	1.18769	290.53%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	4.2	7.5470 ug/L	4.51947	7.5470 ppb	4.51947	59.88%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	1.4	0.6088 ug/L	1.80522	0.6088 ppb	1.80522	296.53%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	4.2	3.5358 ug/L	5.29882	3.5358 ppb	5.29882	149.86%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	111.3	4.2466 ug/L	0.28265	4.2466 ppb	0.28265	6.66%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.3	0.5286 ug/L	1.29778	0.5286 ppb	1.29778	245.52%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-22.9	-0.1796 ug/L	0.12146	-0.1796 ppb	0.12146	67.63%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	40.1	0.0650 ug/L	0.06310	0.0650 ppb	0.06310	97.13%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.6	0.6318 ug/L	2.40360	0.6318 ppb	2.40360	380.44%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	29.9	0.8808 ug/L	3.15334	0.8808 ppb	3.15334	358.01%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	47.5	0.3821 ug/L	0.18856	0.3821 ppb	0.18856	49.35%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	147.8	1.8152 ug/L	0.19452	1.8152 ppb	0.19452	10.72%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		135.6	11.005 ug/L	9.1777	11.005 ppb	9.1777	83.39%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 24

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/22/2010 15:03:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4639.1	4639.1	102 %		15:05:12
1	Y RADIAL	4962.4	4962.4	100.9 %		15:05:12
1	Al 396.153Radial†	5038.9	5017.5	4940.4 ug/L	4940.4 ppb	15:05:12
1	Ca 317.933Radial†	2759.2	2689.1	5074.2 ug/L	5074.2 ppb	15:05:32
1	Fe 238.204 Radial†	456.2	441.0	5077.3 ug/L	5077.3 ppb	15:05:32
1	K 766.490 Radial†	30238.5	27160.6	5161.6 ug/L	5161.6 ppb	15:05:12
1	Mg 279.077 IEC†	129.4	126.6	5256.4 ug/L	5256.4 ppb	15:05:32
1	Na 589.592 Radial†	28232.6	28420.6	9923.6 ug/L	9923.6 ppb	15:05:12
1	Sr 421.552†	64115.2	62874.6	492.58 ug/L	492.58 ppb	15:05:12
1	Sc 361.383	887961.0	887961.0	105.05 %		15:06:29
1	Y 371.029	736362.5	736362.5	103.28 %		15:06:29
1	Ag 328.068†	101183.4	96166.1	498.76 ug/L	498.76 ppb	15:06:34
1	As 188.979†	909.8	888.2	504.75 ug/L	504.75 ppb	15:06:54
1	B 249.677†	18309.1	17877.1	503.06 ug/L	503.06 ppb	15:06:34
1	Ba 233.527†	55709.4	53021.3	505.28 ug/L	505.28 ppb	15:06:34
1	Be 313.107†	1238587.5	1183546.3	506.38 ug/L	506.38 ppb	15:06:29
1	Cd 226.502†	36029.8	34447.5	505.99 ug/L	505.99 ppb	15:06:34
1	Co 228.616†	20434.4	19506.4	513.62 ug/L	513.62 ppb	15:06:34
1	Cr 267.716†	38824.7	36889.5	502.62 ug/L	502.62 ppb	15:06:34
1	Cu 324.752†	164289.7	150871.6	499.81 ug/L	499.81 ppb	15:06:34
1	Mn 257.610†	398340.6	378819.1	504.02 ug/L	504.02 ppb	15:06:29
1	Mo 202.031†	5749.4	5460.3	491.82 ug/L	491.82 ppb	15:06:54
1	Ni 231.604†	16692.0	15817.5	510.74 ug/L	510.74 ppb	15:06:34
1	P 214.914†	3669.2	3292.3	2397.8 ug/L	2397.8 ppb	15:06:54
1	Pb 220.353†	3311.7	3201.5	502.20 ug/L	502.20 ppb	15:06:54
1	S 181.975 Axial†	600.0	541.3	979.89 ug/L	979.89 ppb	15:06:54
1	Sb 206.836†	1242.9	1157.7	510.94 ug/L	510.94 ppb	15:06:54
1	Se 196.026†	607.4	600.4	517.76 ug/L	517.76 ppb	15:06:54
1	Si 251.611†	70977.7	67049.3	2554.6 ug/L	2554.6 ppb	15:06:34
1	Sn 189.927†	2237.8	2126.5	490.70 ug/L	490.70 ppb	15:06:54
1	Ti 334.940†	294094.2	281012.2	488.66 ug/L	488.66 ppb	15:06:34
1	Tl 190.801†	1313.8	1279.7	508.30 ug/L	508.30 ppb	15:06:54
1	U 409.014†	16165.4	17332.1	511.11 ug/L	511.11 ppb	15:06:34
1	V 292.402†	64329.7	62590.2	507.94 ug/L	507.94 ppb	15:06:34
1	Zn 213.857†	43718.5	41014.1	500.78 ug/L	500.78 ppb	15:06:34
1	SiO2†	71282.4	67321.8	5452.2 ug/L	5452.2 ppb	15:08:02
2	Sc Radial	4512.3	4512.3	99.1 %		15:05:37
2	Y RADIAL	4821.0	4821.0	98.05 %		15:05:37
2	Al 396.153Radial†	5000.7	5117.9	5039.8 ug/L	5039.8 ppb	15:05:37
2	Ca 317.933Radial†	2780.0	2786.1	5257.4 ug/L	5257.4 ppb	15:05:57
2	Fe 238.204 Radial†	460.3	457.7	5268.3 ug/L	5268.3 ppb	15:05:57
2	K 766.490 Radial†	30060.9	27814.9	5285.9 ug/L	5285.9 ppb	15:05:37
2	Mg 279.077 IEC†	126.5	127.2	5281.4 ug/L	5281.4 ppb	15:05:57
2	Na 589.592 Radial†	27870.4	28833.4	10068 ug/L	10068 ppb	15:05:37
2	Sr 421.552†	63864.0	64388.5	504.44 ug/L	504.44 ppb	15:05:37
2	Sc 361.383	888814.3	888814.3	105.15 %		15:07:00
2	Y 371.029	736695.6	736695.6	103.33 %		15:07:00
2	Ag 328.068†	99802.3	94760.2	491.55 ug/L	491.55 ppb	15:07:05
2	As 188.979†	910.3	887.8	504.49 ug/L	504.49 ppb	15:07:25
2	B 249.677†	18053.7	17617.4	495.71 ug/L	495.71 ppb	15:07:05
2	Ba 233.527†	54867.7	52169.9	497.17 ug/L	497.17 ppb	15:07:05
2	Be 313.107†	1232252.4	1176389.5	503.30 ug/L	503.30 ppb	15:07:00
2	Cd 226.502†	35601.8	34007.5	499.50 ug/L	499.50 ppb	15:07:05
2	Co 228.616†	20162.3	19229.0	506.32 ug/L	506.32 ppb	15:07:05
2	Cr 267.716†	38310.5	36365.0	495.50 ug/L	495.50 ppb	15:07:05
2	Cu 324.752†	161244.3	147825.2	489.74 ug/L	489.74 ppb	15:07:05
2	Mn 257.610†	396704.9	376899.4	501.49 ug/L	501.49 ppb	15:07:00
2	Mo 202.031†	5723.5	5430.4	489.14 ug/L	489.14 ppb	15:07:25
2	Ni 231.604†	16439.5	15562.1	502.50 ug/L	502.50 ppb	15:07:05

2	P 214.914†	3643.7	3264.7	2378.7 ug/L	2378.7 ppb	15:07:25
2	Pb 220.353†	3291.3	3179.1	498.70 ug/L	498.70 ppb	15:07:25
2	S 181.975 Axial†	599.5	540.3	978.02 ug/L	978.02 ppb	15:07:25
2	Sb 206.836†	1241.3	1155.1	509.78 ug/L	509.78 ppb	15:07:25
2	Se 196.026†	608.5	600.9	518.74 ug/L	518.74 ppb	15:07:25
2	Si 251.611†	69860.1	65921.5	2511.6 ug/L	2511.6 ppb	15:07:05
2	Sn 189.927†	2239.8	2126.5	490.71 ug/L	490.71 ppb	15:07:25
2	Ti 334.940†	289361.2	276242.1	480.40 ug/L	480.40 ppb	15:07:05
2	Tl 190.801†	1294.9	1260.6	500.72 ug/L	500.72 ppb	15:07:25
2	U 409.014†	15747.6	16919.9	498.91 ug/L	498.91 ppb	15:07:05
2	V 292.402†	63405.2	61652.2	500.35 ug/L	500.35 ppb	15:07:05
2	Zn 213.857†	43105.1	40390.8	493.14 ug/L	493.14 ppb	15:07:05
2	SiO2†	70270.3	66294.1	5368.8 ug/L	5368.8 ppb	15:08:07
3	Sc Radial	4608.2	4608.2	101 %		15:06:02
3	Y RADIAL	4922.0	4922.0	100.1 %		15:06:02
3	Al 396.153Radial†	5010.0	5022.0	4944.7 ug/L	4944.7 ppb	15:06:02
3	Ca 317.933Radial†	2747.5	2695.6	5086.7 ug/L	5086.7 ppb	15:06:22
3	Fe 238.204 Radial†	457.9	445.6	5130.4 ug/L	5130.4 ppb	15:06:22
3	K 766.490 Radial†	29928.1	27052.6	5141.1 ug/L	5141.1 ppb	15:06:02
3	Mg 279.077 IEC†	127.6	125.6	5216.0 ug/L	5216.0 ppb	15:06:22
3	Na 589.592 Radial†	27548.3	27930.0	9752.3 ug/L	9752.3 ppb	15:06:02
3	Sr 421.552†	63379.7	62569.1	490.18 ug/L	490.18 ppb	15:06:02
3	Sc 361.383	880780.4	880780.4	104.20 %		15:07:31
3	Y 371.029	730007.0	730007.0	102.39 %		15:07:31
3	Ag 328.068†	100657.6	96446.8	500.23 ug/L	500.23 ppb	15:07:36
3	As 188.979†	917.3	902.5	512.80 ug/L	512.80 ppb	15:07:56
3	B 249.677†	18216.1	17929.9	504.54 ug/L	504.54 ppb	15:07:36
3	Ba 233.527†	55434.1	53189.5	506.88 ug/L	506.88 ppb	15:07:36
3	Be 313.107†	1223205.7	1178396.8	504.18 ug/L	504.18 ppb	15:07:31
3	Cd 226.502†	35916.1	34618.0	508.49 ug/L	508.49 ppb	15:07:36
3	Co 228.616†	20329.1	19564.0	515.14 ug/L	515.14 ppb	15:07:36
3	Cr 267.716†	38700.1	37071.2	505.10 ug/L	505.10 ppb	15:07:36
3	Cu 324.752†	163080.3	150986.0	500.20 ug/L	500.20 ppb	15:07:36
3	Mn 257.610†	394312.5	378044.7	503.00 ug/L	503.00 ppb	15:07:31
3	Mo 202.031†	5737.5	5493.5	494.81 ug/L	494.81 ppb	15:07:56
3	Ni 231.604†	16612.4	15870.7	512.46 ug/L	512.46 ppb	15:07:36
3	P 214.914†	3637.3	3290.2	2396.1 ug/L	2396.1 ppb	15:07:56
3	Pb 220.353†	3294.2	3210.4	503.60 ug/L	503.60 ppb	15:07:56
3	S 181.975 Axial†	600.3	546.2	988.79 ug/L	988.79 ppb	15:07:56
3	Sb 206.836†	1252.0	1176.1	518.89 ug/L	518.89 ppb	15:07:56
3	Se 196.026†	603.3	601.2	518.60 ug/L	518.60 ppb	15:07:56
3	Si 251.611†	70447.9	67091.7	2556.2 ug/L	2556.2 ppb	15:07:36
3	Sn 189.927†	2235.7	2141.9	494.25 ug/L	494.25 ppb	15:07:56
3	Ti 334.940†	292344.3	281615.3	489.72 ug/L	489.72 ppb	15:07:36
3	Tl 190.801†	1307.3	1283.7	509.87 ug/L	509.87 ppb	15:07:56
3	U 409.014†	15964.5	17264.7	509.11 ug/L	509.11 ppb	15:07:36
3	V 292.402†	64039.7	62811.2	509.74 ug/L	509.74 ppb	15:07:36
3	Zn 213.857†	43386.8	41035.0	501.02 ug/L	501.02 ppb	15:07:36
3	SiO2†	69523.5	66187.0	5360.0 ug/L	5360.0 ppb	15:08:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	885851.9	104.80 %	0.522			0.50%
Sc Radial	4586.5	101 %	1.5			1.44%
Y 371.029	734355.1	103.00 %	0.529			0.51%
Y RADIAL	4901.8	99.69 %	1.481			1.49%
Ag 328.068†	95791.1	496.85 ug/L	4.646	496.85 ppb	4.646	0.94%
QC value within limits for Ag 328.068 Recovery = 99.37%						
Al 396.153Radial†	5052.5	4974.9 ug/L	56.22	4974.9 ppb	56.22	1.13%
QC value within limits for Al 396.153Radial Recovery = 99.50%						
As 188.979†	892.8	507.35 ug/L	4.721	507.35 ppb	4.721	0.93%
QC value within limits for As 188.979 Recovery = 101.47%						
B 249.677†	17808.1	501.10 ug/L	4.730	501.10 ppb	4.730	0.94%
QC value within limits for B 249.677 Recovery = 100.22%						
Ba 233.527†	52793.6	503.11 ug/L	5.204	503.11 ppb	5.204	1.03%
QC value within limits for Ba 233.527 Recovery = 100.62%						
Be 313.107†	1179444.2	504.62 ug/L	1.583	504.62 ppb	1.583	0.31%
QC value within limits for Be 313.107 Recovery = 100.92%						
Ca 317.933Radial†	2723.6	5139.4 ug/L	102.35	5139.4 ppb	102.35	1.99%

QC value within limits for Ca 317.933 Radial Recovery = 102.79%

Cd 226.502†	34357.7	504.66 ug/L	4.641	504.66 ppb	4.641	0.92%
QC value within limits for Cd 226.502 Recovery = 100.93%						
Co 228.616†	19433.1	511.69 ug/L	4.713	511.69 ppb	4.713	0.92%
QC value within limits for Co 228.616 Recovery = 102.34%						
Cr 267.716†	36775.2	501.07 ug/L	4.981	501.07 ppb	4.981	0.99%
QC value within limits for Cr 267.716 Recovery = 100.21%						
Cu 324.752†	149894.3	496.58 ug/L	5.931	496.58 ppb	5.931	1.19%
QC value within limits for Cu 324.752 Recovery = 99.32%						
Fe 238.204 Radial†	448.1	5158.6 ug/L	98.58	5158.6 ppb	98.58	1.91%
QC value within limits for Fe 238.204 Radial Recovery = 103.17%						
K 766.490 Radial†	27342.7	5196.2 ug/L	78.40	5196.2 ppb	78.40	1.51%
QC value within limits for K 766.490 Radial Recovery = 103.92%						
Mg 279.077 IEC†	126.5	5251.3 ug/L	32.99	5251.3 ppb	32.99	0.63%
QC value within limits for Mg 279.077 IEC Recovery = 105.03%						
Mn 257.610†	377921.0	502.84 ug/L	1.275	502.84 ppb	1.275	0.25%
QC value within limits for Mn 257.610 Recovery = 100.57%						
Mo 202.031†	5461.4	491.92 ug/L	2.835	491.92 ppb	2.835	0.58%
QC value within limits for Mo 202.031 Recovery = 98.38%						
Na 589.592 Radial†	28394.7	9914.5 ug/L	157.92	9914.5 ppb	157.92	1.59%
QC value within limits for Na 589.592 Radial Recovery = 99.15%						
Ni 231.604†	15750.1	508.57 ug/L	5.327	508.57 ppb	5.327	1.05%
QC value within limits for Ni 231.604 Recovery = 101.71%						
P 214.914†	3282.4	2390.9 ug/L	10.56	2390.9 ppb	10.56	0.44%
QC value within limits for P 214.914 Recovery = 95.64%						
Pb 220.353†	3197.0	501.50 ug/L	2.524	501.50 ppb	2.524	0.50%
QC value within limits for Pb 220.353 Recovery = 100.30%						
S 181.975 Axial†	542.6	982.23 ug/L	5.753	982.23 ppb	5.753	0.59%
QC value within limits for S 181.975 Axial Recovery = 98.22%						
Sb 206.836†	1163.0	513.20 ug/L	4.962	513.20 ppb	4.962	0.97%
QC value within limits for Sb 206.836 Recovery = 102.64%						
Se 196.026†	600.8	518.36 ug/L	0.531	518.36 ppb	0.531	0.10%
QC value within limits for Se 196.026 Recovery = 103.67%						
Si 251.611†	66687.5	2540.8 ug/L	25.32	2540.8 ppb	25.32	1.00%
QC value within limits for Si 251.611 Recovery = 101.63%						
Sn 189.927†	2131.7	491.88 ug/L	2.047	491.88 ppb	2.047	0.42%
QC value within limits for Sn 189.927 Recovery = 98.38%						
Sr 421.552†	63277.4	495.73 ug/L	7.633	495.73 ppb	7.633	1.54%
QC value within limits for Sr 421.552 Recovery = 99.15%						
Ti 334.940†	279623.2	486.26 ug/L	5.105	486.26 ppb	5.105	1.05%
QC value within limits for Ti 334.940 Recovery = 97.25%						
Tl 190.801†	1274.7	506.30 ug/L	4.898	506.30 ppb	4.898	0.97%
QC value within limits for Tl 190.801 Recovery = 101.26%						
U 409.014†	17172.2	506.38 ug/L	6.543	506.38 ppb	6.543	1.29%
QC value within limits for U 409.014 Recovery = 101.28%						
V 292.402†	62351.2	506.01 ug/L	4.983	506.01 ppb	4.983	0.98%
QC value within limits for V 292.402 Recovery = 101.20%						
Zn 213.857†	40813.3	498.31 ug/L	4.484	498.31 ppb	4.484	0.90%
QC value within limits for Zn 213.857 Recovery = 99.66%						
SiO2†	66601.0	5393.7 ug/L	50.88	5393.7 ppb	50.88	0.94%
QC value within limits for SiO2 Recovery = 100.86%						

All analyte(s) passed QC.

Sequence No.: 25

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 15:10:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4715.4	4715.4	104 %		15:12:14
1	Y RADIAL	5082.0	5082.0	103.4 %		15:12:14
1	Al 396.153Radial†	-80.1	-4.2	-4.1333 ug/L	-4.1333 ppb	15:12:34
1	Ca 317.933Radial†	31.4	11.9	22.464 ug/L	22.464 ppb	15:12:34
1	Fe 238.204 Radial†	9.1	2.1	24.261 ug/L	24.261 ppb	15:12:34
1	K 766.490 Radial†	2574.2	-25.5	-4.8713 ug/L	-4.8713 ppb	15:12:14
1	Mg 279.077 IEC†	3.9	3.4	141.51 ug/L	141.51 ppb	15:12:34
1	Na 589.592 Radial†	-667.8	73.1	25.528 ug/L	25.528 ppb	15:12:14
1	Sr 421.552†	39.3	0.5	0.0037 ug/L	0.0037 ppb	15:12:14
1	Sc 361.383	878603.2	878603.2	103.94 %		15:13:31
1	Y 371.029	739777.5	739777.5	103.76 %		15:13:31
1	Ag 328.068†	201.3	37.0	0.1981 ug/L	0.1981 ppb	15:13:31
1	As 188.979†	-16.2	6.5	3.6835 ug/L	3.6835 ppb	15:13:51
1	B 249.677†	-196.3	258.6	7.3042 ug/L	7.3042 ppb	15:13:51
1	Ba 233.527†	6.2	-6.0	-0.0543 ug/L	-0.0543 ppb	15:13:51
1	Be 313.107†	-4448.3	177.6	0.0760 ug/L	0.0760 ppb	15:13:31
1	Cd 226.502†	-181.7	-26.3	-0.3888 ug/L	-0.3888 ppb	15:13:51
1	Co 228.616†	-47.2	8.2	0.2158 ug/L	0.2158 ppb	15:13:51
1	Cr 267.716†	76.3	3.2	0.0456 ug/L	0.0456 ppb	15:13:51
1	Cu 324.752†	5706.5	-35.7	-0.1191 ug/L	-0.1191 ppb	15:13:31
1	Mn 257.610†	456.8	53.2	0.0673 ug/L	0.0673 ppb	15:13:51
1	Mo 202.031†	10.7	-2.6	-0.2292 ug/L	-0.2292 ppb	15:13:51
1	Ni 231.604†	81.0	5.4	0.1729 ug/L	0.1729 ppb	15:13:51
1	P 214.914†	190.9	-17.0	-12.890 ug/L	-12.890 ppb	15:13:51
1	Pb 220.353†	-36.2	14.1	2.2010 ug/L	2.2010 ppb	15:13:51
1	S 181.975 Axial†	27.7	-3.3	-5.9314 ug/L	-5.9314 ppb	15:13:51
1	Sb 206.836†	25.2	-1.2	-0.4913 ug/L	-0.4913 ppb	15:13:51
1	Se 196.026†	-20.1	2.8	2.3893 ug/L	2.3893 ppb	15:13:51
1	Si 251.611†	783.2	234.7	8.9665 ug/L	8.9665 ppb	15:13:51
1	Sn 189.927†	12.9	8.7	2.0068 ug/L	2.0068 ppb	15:13:51
1	Ti 334.940†	-1043.4	41.7	0.0624 ug/L	0.0624 ppb	15:13:31
1	Tl 190.801†	-29.4	0.8	0.3215 ug/L	0.3215 ppb	15:13:51
1	U 409.014†	-1895.4	119.5	3.5343 ug/L	3.5343 ppb	15:13:31
1	V 292.402†	-1306.9	93.3	0.7501 ug/L	0.7501 ppb	15:13:31
1	Zn 213.857†	762.6	129.4	1.5906 ug/L	1.5906 ppb	15:13:51
1	SiO2†	771.6	206.1	16.735 ug/L	16.735 ppb	15:15:02
2	Sc Radial	4700.5	4700.5	103 %		15:12:39
2	Y RADIAL	5090.6	5090.6	103.5 %		15:12:39
2	Al 396.153Radial†	-68.8	6.5	6.3894 ug/L	6.3894 ppb	15:12:59
2	Ca 317.933Radial†	27.4	8.2	15.456 ug/L	15.456 ppb	15:12:59
2	Fe 238.204 Radial†	7.7	0.9	9.8282 ug/L	9.8282 ppb	15:12:59
2	K 766.490 Radial†	2529.6	-60.8	-11.580 ug/L	-11.580 ppb	15:12:39
2	Mg 279.077 IEC†	3.1	2.6	108.99 ug/L	108.99 ppb	15:12:59
2	Na 589.592 Radial†	-658.3	80.2	28.013 ug/L	28.013 ppb	15:12:39
2	Sr 421.552†	24.6	-13.6	-0.1069 ug/L	-0.1069 ppb	15:12:39
2	Sc 361.383	875672.4	875672.4	103.59 %		15:13:57
2	Y 371.029	736180.7	736180.7	103.26 %		15:13:57
2	Ag 328.068†	190.3	27.1	0.1429 ug/L	0.1429 ppb	15:13:57
2	As 188.979†	-18.5	4.2	2.3751 ug/L	2.3751 ppb	15:14:17
2	B 249.677†	-192.7	261.4	7.3866 ug/L	7.3866 ppb	15:14:17
2	Ba 233.527†	-16.0	-27.4	-0.2580 ug/L	-0.2580 ppb	15:14:17
2	Be 313.107†	-4469.6	142.7	0.0611 ug/L	0.0611 ppb	15:13:57
2	Cd 226.502†	-161.8	-7.7	-0.1130 ug/L	-0.1130 ppb	15:14:17
2	Co 228.616†	-52.2	3.2	0.0852 ug/L	0.0852 ppb	15:14:17
2	Cr 267.716†	84.2	11.1	0.1513 ug/L	0.1513 ppb	15:14:17
2	Cu 324.752†	5677.4	-45.4	-0.1523 ug/L	-0.1523 ppb	15:13:57
2	Mn 257.610†	441.2	39.6	0.0492 ug/L	0.0492 ppb	15:14:17
2	Mo 202.031†	22.8	9.1	0.8210 ug/L	0.8210 ppb	15:14:17
2	Ni 231.604†	75.1	-0.1	-0.0033 ug/L	-0.0033 ppb	15:14:17

2	P 214.914†	195.2	-12.2	-9.1991 ug/L	-9.1991 ppb	15:14:17
2	Pb 220.353†	-35.7	14.4	2.2558 ug/L	2.2558 ppb	15:14:17
2	S 181.975 Axial†	39.7	8.4	15.213 ug/L	15.213 ppb	15:14:17
2	Sb 206.836†	33.3	6.7	2.8930 ug/L	2.8930 ppb	15:14:17
2	Se 196.026†	-18.2	4.7	3.9064 ug/L	3.9064 ppb	15:14:17
2	Si 251.611†	773.4	227.7	8.6868 ug/L	8.6868 ppb	15:14:17
2	Sn 189.927†	12.5	8.4	1.9308 ug/L	1.9308 ppb	15:14:17
2	Ti 334.940†	-1031.6	49.7	0.0777 ug/L	0.0777 ppb	15:13:57
2	Tl 190.801†	-26.4	3.6	1.4108 ug/L	1.4108 ppb	15:14:17
2	U 409.014†	-1869.5	138.5	4.0970 ug/L	4.0970 ppb	15:13:57
2	V 292.402†	-1271.5	123.3	1.0078 ug/L	1.0078 ppb	15:13:57
2	Zn 213.857†	780.0	148.7	1.8308 ug/L	1.8308 ppb	15:14:17
2	SiO2†	978.0	407.7	33.081 ug/L	33.081 ppb	15:15:22
3	Sc Radial	4689.4	4689.4	103 %		15:13:04
3	Y RADIAL	5076.5	5076.5	103.2 %		15:13:04
3	Al 396.153Radial†	-68.8	6.4	6.3074 ug/L	6.3074 ppb	15:13:24
3	Ca 317.933Radial†	29.6	10.4	19.633 ug/L	19.633 ppb	15:13:24
3	Fe 238.204 Radial†	6.5	-0.4	-4.0213 ug/L	-4.0213 ppb	15:13:24
3	K 766.490 Radial†	2535.3	-49.4	-9.4088 ug/L	-9.4088 ppb	15:13:04
3	Mg 279.077 IEC†	1.3	0.8	35.252 ug/L	35.252 ppb	15:13:24
3	Na 589.592 Radial†	-712.0	26.6	9.2793 ug/L	9.2793 ppb	15:13:04
3	Sr 421.552†	40.3	1.7	0.0130 ug/L	0.0130 ppb	15:13:04
3	Sc 361.383	872548.5	872548.5	103.22 %		15:14:22
3	Y 371.029	734415.6	734415.6	103.01 %		15:14:22
3	Ag 328.068†	170.4	8.4	0.0392 ug/L	0.0392 ppb	15:14:22
3	As 188.979†	-24.2	-1.3	-0.7467 ug/L	-0.7467 ppb	15:14:42
3	B 249.677†	-202.1	251.7	7.1137 ug/L	7.1137 ppb	15:14:42
3	Ba 233.527†	14.8	2.4	0.0235 ug/L	0.0235 ppb	15:14:42
3	Be 313.107†	-4419.1	176.2	0.0756 ug/L	0.0756 ppb	15:14:22
3	Cd 226.502†	-173.1	-19.3	-0.2814 ug/L	-0.2814 ppb	15:14:42
3	Co 228.616†	-35.4	19.3	0.5073 ug/L	0.5073 ppb	15:14:42
3	Cr 267.716†	92.8	19.8	0.2667 ug/L	0.2667 ppb	15:14:42
3	Cu 324.752†	5693.1	-10.7	-0.0386 ug/L	-0.0386 ppb	15:14:22
3	Mn 257.610†	452.1	51.7	0.0669 ug/L	0.0669 ppb	15:14:42
3	Mo 202.031†	12.9	-0.4	-0.0348 ug/L	-0.0348 ppb	15:14:42
3	Ni 231.604†	72.6	-2.3	-0.0745 ug/L	-0.0745 ppb	15:14:42
3	P 214.914†	191.3	-15.3	-11.585 ug/L	-11.585 ppb	15:14:42
3	Pb 220.353†	-45.8	4.6	0.7189 ug/L	0.7189 ppb	15:14:42
3	S 181.975 Axial†	32.9	2.0	3.5860 ug/L	3.5860 ppb	15:14:42
3	Sb 206.836†	32.3	5.8	2.4927 ug/L	2.4927 ppb	15:14:42
3	Se 196.026†	-19.6	3.1	2.6093 ug/L	2.6093 ppb	15:14:42
3	Si 251.611†	748.5	206.3	7.8782 ug/L	7.8782 ppb	15:14:42
3	Sn 189.927†	7.3	3.4	0.7838 ug/L	0.7838 ppb	15:14:42
3	Ti 334.940†	-993.9	82.6	0.1410 ug/L	0.1410 ppb	15:14:22
3	Tl 190.801†	-26.6	3.4	1.3256 ug/L	1.3256 ppb	15:14:42
3	U 409.014†	-1817.5	182.4	5.3978 ug/L	5.3978 ppb	15:14:22
3	V 292.402†	-1330.9	61.3	0.5020 ug/L	0.5020 ppb	15:14:22
3	Zn 213.857†	778.8	150.2	1.8521 ug/L	1.8521 ppb	15:14:42
3	SiO2†	780.1	219.4	17.810 ug/L	17.810 ppb	15:15:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	875608.0	103.58 %		0.358			0.35%
Sc Radial	4701.8	103 %		0.3			0.28%
Y 371.029	736791.3	103.34 %		0.383			0.37%
Y RADIAL	5083.0	103.4 %		0.14			0.14%
Ag 328.068†	24.1	0.1267 ug/L		0.08066	0.1267 ppb	0.08066	63.64%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2.9	2.8545 ug/L		6.05173	2.8545 ppb	6.05173	212.01%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.1	1.7707 ug/L		2.27613	1.7707 ppb	2.27613	128.55%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	257.2	7.2682 ug/L		0.14000	7.2682 ppb	0.14000	1.93%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-10.3	-0.0963 ug/L		0.14538	-0.0963 ppb	0.14538	151.02%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	165.5	0.0709 ug/L		0.00846	0.0709 ppb	0.00846	11.94%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	10.2	19.184 ug/L		3.5260	19.184 ppb	3.5260	18.38%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	-17.8	-0.2611 ug/L	0.13903	-0.2611 ppb	0.13903	53.26%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	10.2	0.2694 ug/L	0.21613	0.2694 ppb	0.21613	80.21%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	11.3	0.1545 ug/L	0.11057	0.1545 ppb	0.11057	71.56%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-30.6	-0.1033 ug/L	0.05846	-0.1033 ppb	0.05846	56.56%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	0.9	10.022 ug/L	14.1419	10.022 ppb	14.1419	141.10%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	-45.2	-8.6202 ug/L	3.42332	-8.6202 ppb	3.42332	39.71%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	2.3	95.250 ug/L	54.4455	95.250 ppb	54.4455	57.16%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	48.2	0.0611 ug/L	0.01035	0.0611 ppb	0.01035	16.94%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	2.1	0.1857 ug/L	0.55871	0.1857 ppb	0.55871	300.91%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	60.0	20.940 ug/L	10.1748	20.940 ppb	10.1748	48.59%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	1.0	0.0317 ug/L	0.12737	0.0317 ppb	0.12737	401.78%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	-14.8	-11.225 ug/L	1.8718	-11.225 ppb	1.8718	16.68%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	11.0	1.7252 ug/L	0.87196	1.7252 ppb	0.87196	50.54%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	2.4	4.2892 ug/L	10.58970	4.2892 ppb	10.58970	246.89%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	3.8	1.6315 ug/L	1.84923	1.6315 ppb	1.84923	113.35%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	3.5	2.9683 ug/L	0.81980	2.9683 ppb	0.81980	27.62%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	222.9	8.5105 ug/L	0.56517	8.5105 ppb	0.56517	6.64%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	6.8	1.5738 ug/L	0.68524	1.5738 ppb	0.68524	43.54%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-3.8	-0.0301 ug/L	0.06668	-0.0301 ppb	0.06668	221.83%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	58.0	0.0937 ug/L	0.04167	0.0937 ppb	0.04167	44.45%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	2.6	1.0193 ug/L	0.60581	1.0193 ppb	0.60581	59.43%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	146.8	4.3430 ug/L	0.95582	4.3430 ppb	0.95582	22.01%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	92.7	0.7533 ug/L	0.25291	0.7533 ppb	0.25291	33.57%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	142.8	1.7578 ug/L	0.14520	1.7578 ppb	0.14520	8.26%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	277.7	22.542 ug/L	9.1425	22.542 ppb	9.1425	40.56%			
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: 3/22/2010 16:05:16

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	4676.2	4676.2	103 %		16:07:09
1	Y RADIAL	4985.7	4985.7	101.4 %		16:07:09
1	Al 396.153Radial†	5006.2	4946.3	4869.7 ug/L	4869.7 ppb	16:07:09
1	Ca 317.933Radial†	2751.5	2660.0	5019.4 ug/L	5019.4 ppb	16:07:29
1	Fe 238.204 Radial†	455.4	436.7	5027.8 ug/L	5027.8 ppb	16:07:29
1	K 766.490 Radial†	30276.0	26961.2	5123.7 ug/L	5123.7 ppb	16:07:09
1	Mg 279.077 IEC†	131.9	128.0	5312.4 ug/L	5312.4 ppb	16:07:29
1	Na 589.592 Radial†	27939.6	27915.1	9747.1 ug/L	9747.1 ppb	16:07:09
1	Sr 421.552†	63567.5	61841.2	484.48 ug/L	484.48 ppb	16:07:09
1	Sc 361.383	881008.1	881008.1	104.22 %		16:08:26
1	Y 371.029	730432.5	730432.5	102.45 %		16:08:26
1	Ag 328.068†	101240.9	96981.5	502.96 ug/L	502.96 ppb	16:08:31
1	As 188.979†	923.6	908.2	516.05 ug/L	516.05 ppb	16:08:51
1	B 249.677†	18371.2	18074.1	508.62 ug/L	508.62 ppb	16:08:31
1	Ba 233.527†	55539.9	53277.2	507.72 ug/L	507.72 ppb	16:08:31
1	Be 313.107†	1232842.9	1187339.9	508.01 ug/L	508.01 ppb	16:08:26
1	Cd 226.502†	36001.2	34690.8	509.57 ug/L	509.57 ppb	16:08:31
1	Co 228.616†	20431.3	19657.0	517.58 ug/L	517.58 ppb	16:08:31
1	Cr 267.716†	38851.6	37206.9	506.93 ug/L	506.93 ppb	16:08:31
1	Cu 324.752†	164441.4	152251.5	504.38 ug/L	504.38 ppb	16:08:31
1	Mn 257.610†	396348.8	379900.6	505.45 ug/L	505.45 ppb	16:08:26
1	Mo 202.031†	5760.1	5513.8	496.62 ug/L	496.62 ppb	16:08:51
1	Ni 231.604†	16664.4	15916.5	513.94 ug/L	513.94 ppb	16:08:31
1	P 214.914†	3681.6	3331.7	2426.9 ug/L	2426.9 ppb	16:08:51
1	Pb 220.353†	3309.9	3224.7	505.83 ug/L	505.83 ppb	16:08:51
1	S 181.975 Axial†	616.7	561.8	1017.1 ug/L	1017.1 ppb	16:08:51
1	Sb 206.836†	1256.3	1179.9	520.61 ug/L	520.61 ppb	16:08:51
1	Se 196.026†	612.2	609.6	525.26 ug/L	525.26 ppb	16:08:51
1	Si 251.611†	70996.2	67600.3	2575.6 ug/L	2575.6 ppb	16:08:31
1	Sn 189.927†	2250.6	2155.7	497.41 ug/L	497.41 ppb	16:08:51
1	Ti 334.940†	294212.0	283334.7	492.69 ug/L	492.69 ppb	16:08:31
1	Tl 190.801†	1300.9	1277.3	507.36 ug/L	507.36 ppb	16:08:51
1	U 409.014†	16204.0	17490.5	515.80 ug/L	515.80 ppb	16:08:31
1	V 292.402†	64355.5	63098.2	512.09 ug/L	512.09 ppb	16:08:31
1	Zn 213.857†	43745.4	41368.3	505.13 ug/L	505.13 ppb	16:08:31
1	SiO2†	70886.6	67477.6	5464.7 ug/L	5464.7 ppb	16:09:59
2	Sc Radial	4705.6	4705.6	103 %		16:07:34
2	Y RADIAL	5013.0	5013.0	102.0 %		16:07:34
2	Al 396.153Radial†	5100.6	5007.3	4929.7 ug/L	4929.7 ppb	16:07:34
2	Ca 317.933Radial†	2738.4	2630.7	4964.0 ug/L	4964.0 ppb	16:07:54
2	Fe 238.204 Radial†	456.9	435.4	5012.7 ug/L	5012.7 ppb	16:07:54
2	K 766.490 Radial†	30805.0	27289.0	5186.1 ug/L	5186.1 ppb	16:07:34
2	Mg 279.077 IEC†	127.5	122.9	5103.5 ug/L	5103.5 ppb	16:07:54
2	Na 589.592 Radial†	28233.2	28029.4	9787.0 ug/L	9787.0 ppb	16:07:34
2	Sr 421.552†	64941.5	62784.3	491.87 ug/L	491.87 ppb	16:07:34
2	Sc 361.383	869912.4	869912.4	102.91 %		16:08:57
2	Y 371.029	720729.1	720729.1	101.09 %		16:08:57
2	Ag 328.068†	99526.2	96554.3	500.75 ug/L	500.75 ppb	16:09:02
2	As 188.979†	915.1	911.3	517.73 ug/L	517.73 ppb	16:09:22
2	B 249.677†	18034.2	17971.6	505.73 ug/L	505.73 ppb	16:09:02
2	Ba 233.527†	54726.0	53166.1	506.66 ug/L	506.66 ppb	16:09:02
2	Be 313.107†	1216192.2	1186247.8	507.53 ug/L	507.53 ppb	16:08:57
2	Cd 226.502†	35522.2	34665.8	509.21 ug/L	509.21 ppb	16:09:02
2	Co 228.616†	20075.0	19560.7	515.07 ug/L	515.07 ppb	16:09:02
2	Cr 267.716†	38313.8	37159.9	506.29 ug/L	506.29 ppb	16:09:02
2	Cu 324.752†	160943.9	150865.4	499.79 ug/L	499.79 ppb	16:09:02
2	Mn 257.610†	392066.3	380589.9	506.38 ug/L	506.38 ppb	16:08:57
2	Mo 202.031†	5761.6	5585.8	503.10 ug/L	503.10 ppb	16:09:22
2	Ni 231.604†	16402.9	15866.3	512.32 ug/L	512.32 ppb	16:09:02

2	P 214.914†	3673.4	3368.8	2456.0 ug/L	2456.0 ppb	16:09:22
2	Pb 220.353†	3304.0	3259.5	511.30 ug/L	511.30 ppb	16:09:22
2	S 181.975 Axial†	607.1	560.1	1013.9 ug/L	1013.9 ppb	16:09:22
2	Sb 206.836†	1257.3	1196.3	527.82 ug/L	527.82 ppb	16:09:22
2	Se 196.026†	618.0	622.7	536.20 ug/L	536.20 ppb	16:09:22
2	Si 251.611†	69616.0	67128.0	2557.5 ug/L	2557.5 ppb	16:09:22
2	Sn 189.927†	2256.1	2188.6	504.99 ug/L	504.99 ppb	16:09:22
2	Ti 334.940†	288824.8	281700.6	489.86 ug/L	489.86 ppb	16:09:02
2	Tl 190.801†	1290.6	1283.2	509.69 ug/L	509.69 ppb	16:09:22
2	U 409.014†	15714.7	17213.4	507.60 ug/L	507.60 ppb	16:09:02
2	V 292.402†	63325.9	62885.4	510.46 ug/L	510.46 ppb	16:09:02
2	Zn 213.857†	43013.2	41192.2	502.98 ug/L	502.98 ppb	16:09:02
2	SiO2†	70042.7	67525.1	5468.4 ug/L	5468.4 ppb	16:10:04
3	Sc Radial	4633.5	4633.5	102 %		16:07:59
3	Y RADIAL	4938.7	4938.7	100.4 %		16:07:59
3	Al 396.153Radial†	5001.6	4986.8	4909.6 ug/L	4909.6 ppb	16:07:59
3	Ca 317.933Radial†	2726.4	2660.1	5019.5 ug/L	5019.5 ppb	16:08:19
3	Fe 238.204 Radial†	456.3	441.6	5084.1 ug/L	5084.1 ppb	16:08:19
3	K 766.490 Radial†	30247.3	27205.0	5170.1 ug/L	5170.1 ppb	16:07:59
3	Mg 279.077 IEC†	128.8	126.2	5238.7 ug/L	5238.7 ppb	16:08:19
3	Na 589.592 Radial†	27770.8	28000.2	9776.8 ug/L	9776.8 ppb	16:07:59
3	Sr 421.552†	63882.6	62721.8	491.38 ug/L	491.38 ppb	16:07:59
3	Sc 361.383	880433.1	880433.1	104.16 %		16:09:28
3	Y 371.029	729300.9	729300.9	102.29 %		16:09:28
3	Ag 328.068†	101368.9	97167.8	503.94 ug/L	503.94 ppb	16:09:33
3	As 188.979†	913.9	899.6	511.18 ug/L	511.18 ppb	16:09:53
3	B 249.677†	18445.2	18156.7	510.95 ug/L	510.95 ppb	16:09:33
3	Ba 233.527†	55651.4	53419.1	509.07 ug/L	509.07 ppb	16:09:33
3	Be 313.107†	1235091.2	1190271.0	509.26 ug/L	509.26 ppb	16:09:28
3	Cd 226.502†	36085.4	34794.2	511.09 ug/L	511.09 ppb	16:09:33
3	Co 228.616†	20414.1	19653.2	517.49 ug/L	517.49 ppb	16:09:33
3	Cr 267.716†	38924.1	37300.9	508.22 ug/L	508.22 ppb	16:09:33
3	Cu 324.752†	164205.8	152128.3	503.98 ug/L	503.98 ppb	16:09:33
3	Mn 257.610†	397521.6	381275.0	507.29 ug/L	507.29 ppb	16:09:28
3	Mo 202.031†	5788.1	5544.2	499.37 ug/L	499.37 ppb	16:09:53
3	Ni 231.604†	16732.5	15992.3	516.39 ug/L	516.39 ppb	16:09:33
3	P 214.914†	3691.0	3343.1	2435.5 ug/L	2435.5 ppb	16:09:53
3	Pb 220.353†	3330.3	3246.3	509.21 ug/L	509.21 ppb	16:09:53
3	S 181.975 Axial†	616.7	562.2	1017.7 ug/L	1017.7 ppb	16:09:53
3	Sb 206.836†	1254.3	1178.8	520.18 ug/L	520.18 ppb	16:09:53
3	Se 196.026†	617.5	615.0	529.99 ug/L	529.99 ppb	16:09:53
3	Si 251.611†	71031.2	67678.4	2578.5 ug/L	2578.5 ppb	16:09:33
3	Sn 189.927†	2247.9	2154.5	497.14 ug/L	497.14 ppb	16:09:53
3	Ti 334.940†	294291.4	283595.3	493.15 ug/L	493.15 ppb	16:09:33
3	Tl 190.801†	1296.1	1273.5	505.86 ug/L	505.86 ppb	16:09:53
3	U 409.014†	16136.1	17435.4	514.16 ug/L	514.16 ppb	16:09:33
3	V 292.402†	64426.0	63206.2	512.98 ug/L	512.98 ppb	16:09:33
3	Zn 213.857†	43745.6	41395.9	505.45 ug/L	505.45 ppb	16:09:33
3	SiO2†	70709.7	67352.2	5454.4 ug/L	5454.4 ppb	16:10:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	877117.9	103.76 %	0.739			0.71%
Sc Radial	4671.8	103 %	0.8			0.78%
Y 371.029	726820.8	101.95 %	0.744			0.73%
Y RADIAL	4979.1	101.3 %	0.76			0.75%
Ag 328.068†	96901.2	502.55 ug/L	1.633	502.55 ppb	1.633	0.32%
QC value within limits for Ag 328.068 Recovery = 100.51%						
Al 396.153Radial†	4980.1	4903.0 ug/L	30.54	4903.0 ppb	30.54	0.62%
QC value within limits for Al 396.153Radial Recovery = 98.06%						
As 188.979†	906.4	514.99 ug/L	3.405	514.99 ppb	3.405	0.66%
QC value within limits for As 188.979 Recovery = 103.00%						
B 249.677†	18067.5	508.44 ug/L	2.613	508.44 ppb	2.613	0.51%
QC value within limits for B 249.677 Recovery = 101.69%						
Ba 233.527†	53287.4	507.81 ug/L	1.209	507.81 ppb	1.209	0.24%
QC value within limits for Ba 233.527 Recovery = 101.56%						
Be 313.107†	1187952.9	508.27 ug/L	0.891	508.27 ppb	0.891	0.18%
QC value within limits for Be 313.107 Recovery = 101.65%						
Ca 317.933Radial†	2650.2	5001.0 ug/L	31.99	5001.0 ppb	31.99	0.64%

QC value within limits for Ca 317.933 Radial Recovery = 100.02%

Cd 226.502†	34716.9	509.96 ug/L	0.997	509.96 ppb	0.997	0.20%
QC value within limits for Cd 226.502 Recovery = 101.99%						
Co 228.616†	19623.6	516.71 ug/L	1.424	516.71 ppb	1.424	0.28%
QC value within limits for Co 228.616 Recovery = 103.34%						
Cr 267.716†	37222.6	507.15 ug/L	0.981	507.15 ppb	0.981	0.19%
QC value within limits for Cr 267.716 Recovery = 101.43%						
Cu 324.752†	151748.4	502.72 ug/L	2.540	502.72 ppb	2.540	0.51%
QC value within limits for Cu 324.752 Recovery = 100.54%						
Fe 238.204 Radial†	437.9	5041.5 ug/L	37.61	5041.5 ppb	37.61	0.75%
QC value within limits for Fe 238.204 Radial Recovery = 100.83%						
K 766.490 Radial†	27151.7	5159.9 ug/L	32.40	5159.9 ppb	32.40	0.63%
QC value within limits for K 766.490 Radial Recovery = 103.20%						
Mg 279.077 IEC†	125.7	5218.2 ug/L	105.92	5218.2 ppb	105.92	2.03%
QC value within limits for Mg 279.077 IEC Recovery = 104.36%						
Mn 257.610†	380588.5	506.37 ug/L	0.918	506.37 ppb	0.918	0.18%
QC value within limits for Mn 257.610 Recovery = 101.27%						
Mo 202.031†	5547.9	499.70 ug/L	3.250	499.70 ppb	3.250	0.65%
QC value within limits for Mo 202.031 Recovery = 99.94%						
Na 589.592 Radial†	27981.6	9770.3 ug/L	20.74	9770.3 ppb	20.74	0.21%
QC value within limits for Na 589.592 Radial Recovery = 97.70%						
Ni 231.604†	15925.0	514.21 ug/L	2.049	514.21 ppb	2.049	0.40%
QC value within limits for Ni 231.604 Recovery = 102.84%						
P 214.914†	3347.9	2439.4 ug/L	14.95	2439.4 ppb	14.95	0.61%
QC value within limits for P 214.914 Recovery = 97.58%						
Pb 220.353†	3243.5	508.78 ug/L	2.764	508.78 ppb	2.764	0.54%
QC value within limits for Pb 220.353 Recovery = 101.76%						
S 181.975 Axial†	561.3	1016.2 ug/L	2.05	1016.2 ppb	2.05	0.20%
QC value within limits for S 181.975 Axial Recovery = 101.62%						
Sb 206.836†	1185.0	522.87 ug/L	4.294	522.87 ppb	4.294	0.82%
QC value within limits for Sb 206.836 Recovery = 104.57%						
Se 196.026†	615.8	530.49 ug/L	5.486	530.49 ppb	5.486	1.03%
QC value within limits for Se 196.026 Recovery = 106.10%						
Si 251.611†	67468.9	2570.5 ug/L	11.41	2570.5 ppb	11.41	0.44%
QC value within limits for Si 251.611 Recovery = 102.82%						
Sn 189.927†	2166.3	499.85 ug/L	4.455	499.85 ppb	4.455	0.89%
QC value within limits for Sn 189.927 Recovery = 99.97%						
Sr 421.552†	62449.1	489.24 ug/L	4.132	489.24 ppb	4.132	0.84%
QC value within limits for Sr 421.552 Recovery = 97.85%						
Ti 334.940†	282876.9	491.90 ug/L	1.781	491.90 ppb	1.781	0.36%
QC value within limits for Ti 334.940 Recovery = 98.38%						
Tl 190.801†	1278.0	507.64 ug/L	1.930	507.64 ppb	1.930	0.38%
QC value within limits for Tl 190.801 Recovery = 101.53%						
U 409.014†	17379.8	512.52 ug/L	4.337	512.52 ppb	4.337	0.85%
QC value within limits for U 409.014 Recovery = 102.50%						
V 292.402†	63063.3	511.84 ug/L	1.277	511.84 ppb	1.277	0.25%
QC value within limits for V 292.402 Recovery = 102.37%						
Zn 213.857†	41318.8	504.52 ug/L	1.343	504.52 ppb	1.343	0.27%
QC value within limits for Zn 213.857 Recovery = 100.90%						
SiO2†	67451.6	5462.5 ug/L	7.22	5462.5 ppb	7.22	0.13%
QC value within limits for SiO2 Recovery = 102.15%						

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/22/2010 16:12:20

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	4705.1	4705.1	103 %		16:14:12
1	Y RADIAL	5050.3	5050.3	102.7 %		16:14:12
1	Al 396.153Radial†	-75.0	0.6	0.5605 ug/L	0.5605 ppb	16:14:32
1	Ca 317.933Radial†	28.9	9.6	18.064 ug/L	18.064 ppb	16:14:32
1	Fe 238.204 Radial†	5.8	-1.0	-11.671 ug/L	-11.671 ppb	16:14:32
1	K 766.490 Radial†	2718.1	119.2	22.657 ug/L	22.657 ppb	16:14:12
1	Mg 279.077 IEC†	2.3	1.9	77.200 ug/L	77.200 ppb	16:14:32
1	Na 589.592 Radial†	-628.5	109.8	38.324 ug/L	38.324 ppb	16:14:12
1	Sr 421.552†	23.9	-14.3	-0.1125 ug/L	-0.1125 ppb	16:14:12
1	Sc 361.383	878023.4	878023.4	103.87 %		16:15:29
1	Y 371.029	738704.7	738704.7	103.61 %		16:15:29
1	Ag 328.068†	37.3	-120.8	-0.6258 ug/L	-0.6258 ppb	16:15:29
1	As 188.979†	-27.3	-4.2	-2.3934 ug/L	-2.3934 ppb	16:15:49
1	B 249.677†	-116.3	335.5	9.4849 ug/L	9.4849 ppb	16:15:49
1	Ba 233.527†	10.5	-1.9	-0.0173 ug/L	-0.0173 ppb	16:15:49
1	Be 313.107†	-4417.6	204.4	0.0875 ug/L	0.0875 ppb	16:15:29
1	Cd 226.502†	-155.4	-1.1	-0.0147 ug/L	-0.0147 ppb	16:15:49
1	Co 228.616†	-47.8	7.6	0.2005 ug/L	0.2005 ppb	16:15:49
1	Cr 267.716†	70.5	-2.3	-0.0329 ug/L	-0.0329 ppb	16:15:49
1	Cu 324.752†	5754.3	13.8	0.0445 ug/L	0.0445 ppb	16:15:29
1	Mn 257.610†	439.1	36.4	0.0441 ug/L	0.0441 ppb	16:15:49
1	Mo 202.031†	13.0	-0.4	-0.0350 ug/L	-0.0350 ppb	16:15:49
1	Ni 231.604†	76.5	1.0	0.0332 ug/L	0.0332 ppb	16:15:49
1	P 214.914†	196.5	-11.5	-8.7294 ug/L	-8.7294 ppb	16:15:49
1	Pb 220.353†	-64.4	-13.1	-2.0409 ug/L	-2.0409 ppb	16:15:49
1	S 181.975 Axial†	31.5	0.5	0.8497 ug/L	0.8497 ppb	16:15:49
1	Sb 206.836†	39.6	12.7	5.3970 ug/L	5.3970 ppb	16:15:49
1	Se 196.026†	-18.2	4.7	3.8652 ug/L	3.8652 ppb	16:15:49
1	Si 251.611†	783.3	235.3	8.9851 ug/L	8.9851 ppb	16:15:49
1	Sn 189.927†	1.6	-2.2	-0.5016 ug/L	-0.5016 ppb	16:15:49
1	Ti 334.940†	-1029.8	54.1	0.0897 ug/L	0.0897 ppb	16:15:29
1	Tl 190.801†	-26.9	3.2	1.2506 ug/L	1.2506 ppb	16:15:49
1	U 409.014†	-1975.3	41.5	1.2278 ug/L	1.2278 ppb	16:15:29
1	V 292.402†	-1355.5	45.7	0.3708 ug/L	0.3708 ppb	16:15:29
1	Zn 213.857†	777.2	143.9	1.7750 ug/L	1.7750 ppb	16:15:49
1	SiO2†	813.4	246.7	20.030 ug/L	20.030 ppb	16:16:45
2	Sc Radial	4578.9	4578.9	101 %		16:14:37
2	Y RADIAL	4921.2	4921.2	100.1 %		16:14:37
2	Al 396.153Radial†	-77.1	-3.4	-3.3940 ug/L	-3.3940 ppb	16:14:57
2	Ca 317.933Radial†	31.7	13.1	24.763 ug/L	24.763 ppb	16:14:57
2	Fe 238.204 Radial†	10.0	3.3	37.824 ug/L	37.824 ppb	16:14:57
2	K 766.490 Radial†	2699.3	173.0	32.899 ug/L	32.899 ppb	16:14:37
2	Mg 279.077 IEC†	1.3	0.9	38.010 ug/L	38.010 ppb	16:14:57
2	Na 589.592 Radial†	-645.6	76.0	26.535 ug/L	26.535 ppb	16:14:37
2	Sr 421.552†	38.0	0.4	0.0026 ug/L	0.0026 ppb	16:14:37
2	Sc 361.383	877280.5	877280.5	103.78 %		16:15:54
2	Y 371.029	737108.0	737108.0	103.39 %		16:15:54
2	Ag 328.068†	212.2	47.8	0.2606 ug/L	0.2606 ppb	16:15:54
2	As 188.979†	-20.7	2.1	1.1987 ug/L	1.1987 ppb	16:16:15
2	B 249.677†	-136.9	315.5	8.9124 ug/L	8.9124 ppb	16:16:15
2	Ba 233.527†	14.7	2.2	0.0242 ug/L	0.0242 ppb	16:16:15
2	Be 313.107†	-4451.4	168.2	0.0722 ug/L	0.0722 ppb	16:15:54
2	Cd 226.502†	-180.8	-25.7	-0.3811 ug/L	-0.3811 ppb	16:16:15
2	Co 228.616†	-40.0	15.0	0.3941 ug/L	0.3941 ppb	16:16:15
2	Cr 267.716†	77.6	4.6	0.0672 ug/L	0.0672 ppb	16:16:15
2	Cu 324.752†	5770.4	34.0	0.1140 ug/L	0.1140 ppb	16:15:54
2	Mn 257.610†	451.1	48.3	0.0665 ug/L	0.0665 ppb	16:16:15
2	Mo 202.031†	10.6	-2.7	-0.2389 ug/L	-0.2389 ppb	16:16:15
2	Ni 231.604†	84.5	8.8	0.2843 ug/L	0.2843 ppb	16:16:15

2	P 214.914†	193.1	-14.6	-11.083 ug/L	-11.083 ppb	16:16:15
2	Pb 220.353†	-37.4	12.9	2.0040 ug/L	2.0040 ppb	16:16:15
2	S 181.975 Axial†	33.7	2.6	4.7379 ug/L	4.7379 ppb	16:16:15
2	Sb 206.836†	30.6	4.0	1.7275 ug/L	1.7275 ppb	16:16:15
2	Se 196.026†	-18.1	4.7	4.0108 ug/L	4.0108 ppb	16:16:15
2	Si 251.611†	783.7	236.3	9.0285 ug/L	9.0285 ppb	16:16:15
2	Sn 189.927†	9.0	4.9	1.1413 ug/L	1.1413 ppb	16:16:15
2	Ti 334.940†	-990.3	91.3	0.1584 ug/L	0.1584 ppb	16:15:54
2	Tl 190.801†	-27.8	2.3	0.9015 ug/L	0.9015 ppb	16:16:15
2	U 409.014†	-1970.4	44.6	1.3138 ug/L	1.3138 ppb	16:15:54
2	V 292.402†	-1269.6	127.4	1.0146 ug/L	1.0146 ppb	16:15:54
2	Zn 213.857†	803.0	169.4	2.0807 ug/L	2.0807 ppb	16:16:15
2	SiO2†	764.0	199.8	16.230 ug/L	16.230 ppb	16:16:50
3	Sc Radial	4639.4	4639.4	102 %		16:15:02
3	Y RADIAL	5001.2	5001.2	101.7 %		16:15:02
3	Al 396.153Radial†	-76.9	-2.3	-2.2269 ug/L	-2.2269 ppb	16:15:22
3	Ca 317.933Radial†	26.0	7.1	13.424 ug/L	13.424 ppb	16:15:22
3	Fe 238.204 Radial†	6.0	-0.7	-8.2050 ug/L	-8.2050 ppb	16:15:22
3	K 766.490 Radial†	2676.7	115.8	22.028 ug/L	22.028 ppb	16:15:02
3	Mg 279.077 IEC†	-0.3	-0.7	-30.383 ug/L	-30.383 ppb	16:15:22
3	Na 589.592 Radial†	-666.8	63.6	22.194 ug/L	22.194 ppb	16:15:02
3	Sr 421.552†	32.3	-5.7	-0.0451 ug/L	-0.0451 ppb	16:15:02
3	Sc 361.383	870822.0	870822.0	103.02 %		16:16:20
3	Y 371.029	732446.8	732446.8	102.74 %		16:16:20
3	Ag 328.068†	119.0	-41.2	-0.2193 ug/L	-0.2193 ppb	16:16:20
3	As 188.979†	-20.7	2.0	1.1456 ug/L	1.1456 ppb	16:16:40
3	B 249.677†	-150.1	301.8	8.5309 ug/L	8.5309 ppb	16:16:40
3	Ba 233.527†	-2.6	-14.5	-0.1381 ug/L	-0.1381 ppb	16:16:40
3	Be 313.107†	-4521.6	68.2	0.0293 ug/L	0.0293 ppb	16:16:20
3	Cd 226.502†	-154.7	-1.7	-0.0223 ug/L	-0.0223 ppb	16:16:40
3	Co 228.616†	-42.7	12.2	0.3188 ug/L	0.3188 ppb	16:16:40
3	Cr 267.716†	80.4	7.9	0.1041 ug/L	0.1041 ppb	16:16:40
3	Cu 324.752†	5655.9	-35.8	-0.1222 ug/L	-0.1222 ppb	16:16:20
3	Mn 257.610†	460.6	60.8	0.0813 ug/L	0.0813 ppb	16:16:40
3	Mo 202.031†	6.3	-6.8	-0.6084 ug/L	-0.6084 ppb	16:16:40
3	Ni 231.604†	79.0	4.0	0.1300 ug/L	0.1300 ppb	16:16:40
3	P 214.914†	191.0	-15.2	-11.505 ug/L	-11.505 ppb	16:16:40
3	Pb 220.353†	-66.2	-15.4	-2.4103 ug/L	-2.4103 ppb	16:16:40
3	S 181.975 Axial†	33.1	2.2	4.0525 ug/L	4.0525 ppb	16:16:40
3	Sb 206.836†	31.2	4.9	2.0610 ug/L	2.0610 ppb	16:16:40
3	Se 196.026†	-13.9	8.7	7.2262 ug/L	7.2262 ppb	16:16:40
3	Si 251.611†	771.3	229.8	8.7849 ug/L	8.7849 ppb	16:16:40
3	Sn 189.927†	4.7	0.9	0.2009 ug/L	0.2009 ppb	16:16:40
3	Ti 334.940†	-1034.2	41.7	0.0743 ug/L	0.0743 ppb	16:16:20
3	Tl 190.801†	-25.0	4.8	1.8940 ug/L	1.8940 ppb	16:16:40
3	U 409.014†	-1809.5	186.7	5.5233 ug/L	5.5233 ppb	16:16:20
3	V 292.402†	-1381.4	9.8	0.0809 ug/L	0.0809 ppb	16:16:20
3	Zn 213.857†	786.7	159.3	1.9642 ug/L	1.9642 ppb	16:16:40
3	SiO2†	804.6	244.7	19.879 ug/L	19.879 ppb	16:16:55

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	875375.3	103.56 %		0.469				0.45%
Sc Radial	4641.1	102 %		1.4				1.36%
Y 371.029	736086.5	103.25 %		0.456				0.44%
Y RADIAL	4990.9	101.5 %		1.33				1.31%
Ag 328.068†	-38.1	-0.1948 ug/L		0.44374	-0.1948 ppb		0.44374	227.73%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-1.7	-1.6868 ug/L		2.03185	-1.6868 ppb		2.03185	120.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.0	-0.0164 ug/L		2.05871	-0.0164 ppb		2.05871	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	317.6	8.9761 ug/L		0.48017	8.9761 ppb		0.48017	5.35%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-4.7	-0.0438 ug/L		0.08429	-0.0438 ppb		0.08429	192.66%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	146.9	0.0630 ug/L		0.03017	0.0630 ppb		0.03017	47.90%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.9	18.750 ug/L		5.7004	18.750 ppb		5.7004	30.40%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-9.5	-0.1394 ug/L	0.20939	-0.1394 ppb	0.20939	150.22%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	11.6	0.3045 ug/L	0.09761	0.3045 ppb	0.09761	32.06%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.4	0.0462 ug/L	0.07088	0.0462 ppb	0.07088	153.57%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	4.0	0.0121 ug/L	0.12137	0.0121 ppb	0.12137	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.5	5.9827 ug/L	27.62967	5.9827 ppb	27.62967	461.83%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	136.0	25.862 ug/L	6.1029	25.862 ppb	6.1029	23.60%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.7	28.276 ug/L	54.4481	28.276 ppb	54.4481	192.56%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	48.5	0.0640 ug/L	0.01873	0.0640 ppb	0.01873	29.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-3.3	-0.2941 ug/L	0.29066	-0.2941 ppb	0.29066	98.82%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	83.1	29.017 ug/L	8.3467	29.017 ppb	8.3467	28.76%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	4.6	0.1492 ug/L	0.12662	0.1492 ppb	0.12662	84.89%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-13.8	-10.439 ug/L	1.4955	-10.439 ppb	1.4955	14.33%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.2	-0.8157 ug/L	2.44894	-0.8157 ppb	2.44894	300.22%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.8	3.2134 ug/L	2.07548	3.2134 ppb	2.07548	64.59%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	7.2	3.0618 ug/L	2.02917	3.0618 ppb	2.02917	66.27%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.0	5.0341 ug/L	1.89986	5.0341 ppb	1.89986	37.74%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	233.8	8.9328 ug/L	0.12994	8.9328 ppb	0.12994	1.45%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.2	0.2802 ug/L	0.82431	0.2802 ppb	0.82431	294.18%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-6.6	-0.0517 ug/L	0.05785	-0.0517 ppb	0.05785	111.96%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	62.4	0.1075 ug/L	0.04480	0.1075 ppb	0.04480	41.69%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.4	1.3487 ug/L	0.50344	1.3487 ppb	0.50344	37.33%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	90.9	2.6883 ug/L	2.45556	2.6883 ppb	2.45556	91.34%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	61.0	0.4888 ug/L	0.47791	0.4888 ppb	0.47791	97.78%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	157.6	1.9399 ug/L	0.15428	1.9399 ppb	0.15428	7.95%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	230.4	18.713 ug/L	2.1516	18.713 ppb	2.1516	11.50%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 18
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/22/2010 17:15:49
 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	4688.9	4688.9	103 %		17:17:41
1	Y RADIAL	5013.0	5013.0	102.0 %		17:17:41
1	Al 396.153Radial†	5088.5	5013.0	4935.4 ug/L	4935.4 ppb	17:17:41
1	Ca 317.933Radial†	2765.2	2666.1	5030.8 ug/L	5030.8 ppb	17:18:01
1	Fe 238.204 Radial†	462.2	442.1	5089.6 ug/L	5089.6 ppb	17:18:01
1	K 766.490 Radial†	30621.1	27216.2	5172.1 ug/L	5172.1 ppb	17:17:41
1	Mg 279.077 IEC†	128.0	123.9	5143.6 ug/L	5143.6 ppb	17:18:01
1	Na 589.592 Radial†	29015.2	28885.5	10086 ug/L	10086 ppb	17:17:41
1	Sr 421.552†	65319.4	63374.1	496.49 ug/L	496.49 ppb	17:17:41
1	Sc 361.383	872961.8	872961.8	103.27 %		17:18:58
1	Y 371.029	723976.8	723976.8	101.55 %		17:18:58
1	Ag 328.068†	102193.0	98798.8	512.38 ug/L	512.38 ppb	17:19:04
1	As 188.979†	918.5	911.5	517.98 ug/L	517.98 ppb	17:19:24
1	B 249.677†	18315.0	18182.2	511.65 ug/L	511.65 ppb	17:19:04
1	Ba 233.527†	55982.1	54196.6	516.48 ug/L	516.48 ppb	17:19:04
1	Be 313.107†	1221374.1	1187137.5	507.94 ug/L	507.94 ppb	17:18:58
1	Cd 226.502†	36140.3	35143.8	516.23 ug/L	516.23 ppb	17:19:04
1	Co 228.616†	20451.9	19857.6	522.86 ug/L	522.86 ppb	17:19:04
1	Cr 267.716†	39083.4	37775.0	514.67 ug/L	514.67 ppb	17:19:04
1	Cu 324.752†	166223.7	155431.6	514.92 ug/L	514.92 ppb	17:19:04
1	Mn 257.610†	392324.9	379509.4	504.95 ug/L	504.95 ppb	17:18:58
1	Mo 202.031†	5783.5	5587.4	503.25 ug/L	503.25 ppb	17:19:24
1	Ni 231.604†	16774.6	16170.6	522.14 ug/L	522.14 ppb	17:19:04
1	P 214.914†	3680.8	3363.5	2448.8 ug/L	2448.8 ppb	17:19:24
1	Pb 220.353†	3320.6	3264.3	512.05 ug/L	512.05 ppb	17:19:24
1	S 181.975 Axial†	605.3	556.2	1006.9 ug/L	1006.9 ppb	17:19:24
1	Sb 206.836†	1250.5	1185.5	523.18 ug/L	523.18 ppb	17:19:24
1	Se 196.026†	618.9	621.4	535.35 ug/L	535.35 ppb	17:19:24
1	Si 251.611†	71392.2	68611.7	2614.1 ug/L	2614.1 ppb	17:19:04
1	Sn 189.927†	2251.4	2176.4	502.18 ug/L	502.18 ppb	17:19:24
1	Ti 334.940†	296803.0	288445.6	501.59 ug/L	501.59 ppb	17:19:04
1	Tl 190.801†	1301.7	1289.6	512.23 ug/L	512.23 ppb	17:19:24
1	U 409.014†	16294.3	17721.2	522.60 ug/L	522.60 ppb	17:19:04
1	V 292.402†	64934.9	64228.4	521.22 ug/L	521.22 ppb	17:19:04
1	Zn 213.857†	43958.7	41961.8	512.37 ug/L	512.37 ppb	17:19:04
1	SiO2†	71064.8	68277.0	5529.4 ug/L	5529.4 ppb	17:20:31
2	Sc Radial	4663.2	4663.2	102 %		17:18:06
2	Y RADIAL	5015.7	5015.7	102.0 %		17:18:06
2	Al 396.153Radial†	5070.8	5023.1	4945.8 ug/L	4945.8 ppb	17:18:06
2	Ca 317.933Radial†	2756.2	2672.1	5042.2 ug/L	5042.2 ppb	17:18:26
2	Fe 238.204 Radial†	460.7	443.1	5100.8 ug/L	5100.8 ppb	17:18:26
2	K 766.490 Radial†	30644.3	27403.0	5207.6 ug/L	5207.6 ppb	17:18:06
2	Mg 279.077 IEC†	128.7	125.3	5200.2 ug/L	5200.2 ppb	17:18:26
2	Na 589.592 Radial†	28800.1	28830.9	10067 ug/L	10067 ppb	17:18:06
2	Sr 421.552†	64905.0	63319.4	496.06 ug/L	496.06 ppb	17:18:06
2	Sc 361.383	889476.9	889476.9	105.23 %		17:19:29
2	Y 371.029	736751.5	736751.5	103.34 %		17:19:29
2	Ag 328.068†	102395.4	97153.8	503.87 ug/L	503.87 ppb	17:19:35
2	As 188.979†	915.7	892.3	507.12 ug/L	507.12 ppb	17:19:55
2	B 249.677†	18390.8	17924.9	504.39 ug/L	504.39 ppb	17:19:35
2	Ba 233.527†	56375.1	53563.5	510.44 ug/L	510.44 ppb	17:19:35
2	Be 313.107†	1241711.3	1184505.5	506.80 ug/L	506.80 ppb	17:19:29
2	Cd 226.502†	36415.9	34756.0	510.53 ug/L	510.53 ppb	17:19:35
2	Co 228.616†	20628.1	19657.3	517.58 ug/L	517.58 ppb	17:19:35
2	Cr 267.716†	39332.1	37308.7	508.32 ug/L	508.32 ppb	17:19:35
2	Cu 324.752†	166560.2	152762.8	506.08 ug/L	506.08 ppb	17:19:35
2	Mn 257.610†	399385.9	379166.2	504.49 ug/L	504.49 ppb	17:19:29
2	Mo 202.031†	5776.7	5476.9	493.31 ug/L	493.31 ppb	17:19:55
2	Ni 231.604†	16844.6	15935.5	514.55 ug/L	514.55 ppb	17:19:35

2	P 214.914†	3677.9	3294.6	2398.3 ug/L	2398.3 ppb	17:19:55
2	Pb 220.353†	3313.4	3197.8	501.61 ug/L	501.61 ppb	17:19:55
2	S 181.975 Axial†	608.0	547.9	991.92 ug/L	991.92 ppb	17:19:55
2	Sb 206.836†	1258.4	1170.5	516.45 ug/L	516.45 ppb	17:19:55
2	Se 196.026†	607.4	599.4	517.00 ug/L	517.00 ppb	17:19:55
2	Si 251.611†	71856.8	67769.6	2582.1 ug/L	2582.1 ppb	17:19:35
2	Sn 189.927†	2253.4	2137.8	493.29 ug/L	493.29 ppb	17:19:55
2	Ti 334.940†	298097.0	284339.1	494.45 ug/L	494.45 ppb	17:19:35
2	Tl 190.801†	1309.1	1273.2	505.73 ug/L	505.73 ppb	17:19:55
2	U 409.014†	16460.3	17586.1	518.61 ug/L	518.61 ppb	17:19:35
2	V 292.402†	65185.1	63298.7	513.64 ug/L	513.64 ppb	17:19:35
2	Zn 213.857†	44208.8	41409.1	505.61 ug/L	505.61 ppb	17:19:35
2	SiO2†	71366.7	67286.3	5449.3 ug/L	5449.3 ppb	17:20:36
3	Sc Radial	4753.5	4753.5	104 %		17:18:31
3	Y RADIAL	5083.7	5083.7	103.4 %		17:18:31
3	Al 396.153Radial†	5133.8	4989.3	4912.6 ug/L	4912.6 ppb	17:18:31
3	Ca 317.933Radial†	2767.2	2631.6	4965.8 ug/L	4965.8 ppb	17:18:51
3	Fe 238.204 Radial†	458.3	432.3	4976.9 ug/L	4976.9 ppb	17:18:51
3	K 766.490 Radial†	31097.6	27269.0	5182.2 ug/L	5182.2 ppb	17:18:31
3	Mg 279.077 IEC†	130.0	124.0	5149.8 ug/L	5149.8 ppb	17:18:51
3	Na 589.592 Radial†	29204.2	28684.1	10016 ug/L	10016 ppb	17:18:31
3	Sr 421.552†	66030.9	63194.6	495.08 ug/L	495.08 ppb	17:18:31
3	Sc 361.383	890356.2	890356.2	105.33 %		17:20:00
3	Y 371.029	737859.6	737859.6	103.49 %		17:20:00
3	Ag 328.068†	101410.7	96122.8	498.50 ug/L	498.50 ppb	17:20:06
3	As 188.979†	906.9	883.1	501.85 ug/L	501.85 ppb	17:20:26
3	B 249.677†	18214.8	17740.6	499.22 ug/L	499.22 ppb	17:20:06
3	Ba 233.527†	55616.2	52790.1	503.07 ug/L	503.07 ppb	17:20:06
3	Be 313.107†	1242735.4	1184312.4	506.70 ug/L	506.70 ppb	17:20:00
3	Cd 226.502†	35923.9	34254.7	503.17 ug/L	503.17 ppb	17:20:06
3	Co 228.616†	20384.8	19407.0	511.00 ug/L	511.00 ppb	17:20:06
3	Cr 267.716†	38878.8	36841.4	501.95 ug/L	501.95 ppb	17:20:06
3	Cu 324.752†	164465.2	150617.5	498.97 ug/L	498.97 ppb	17:20:06
3	Mn 257.610†	400099.9	379469.2	504.88 ug/L	504.88 ppb	17:20:00
3	Mo 202.031†	5740.6	5437.2	489.73 ug/L	489.73 ppb	17:20:26
3	Ni 231.604†	16744.1	15824.2	510.96 ug/L	510.96 ppb	17:20:06
3	P 214.914†	3649.9	3264.5	2377.0 ug/L	2377.0 ppb	17:20:26
3	Pb 220.353†	3301.3	3183.2	499.34 ug/L	499.34 ppb	17:20:26
3	S 181.975 Axial†	608.2	547.5	991.11 ug/L	991.11 ppb	17:20:26
3	Sb 206.836†	1255.8	1166.8	514.75 ug/L	514.75 ppb	17:20:26
3	Se 196.026†	609.8	601.1	518.03 ug/L	518.03 ppb	17:20:26
3	Si 251.611†	70809.6	66707.9	2541.6 ug/L	2541.6 ppb	17:20:06
3	Sn 189.927†	2234.7	2117.9	488.70 ug/L	488.70 ppb	17:20:26
3	Ti 334.940†	294437.3	280584.8	487.92 ug/L	487.92 ppb	17:20:06
3	Tl 190.801†	1295.1	1258.7	500.00 ug/L	500.00 ppb	17:20:26
3	U 409.014†	16218.0	17340.5	511.38 ug/L	511.38 ppb	17:20:06
3	V 292.402†	64326.3	62422.2	506.58 ug/L	506.58 ppb	17:20:06
3	Zn 213.857†	43740.3	40922.8	499.67 ug/L	499.67 ppb	17:20:06
3	SiO2†	70672.0	66559.8	5390.4 ug/L	5390.4 ppb	17:20:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	884265.0	104.61 %	1.159			1.11%
Sc Radial	4701.9	103 %	1.0			0.99%
Y 371.029	732862.6	102.79 %	1.082			1.05%
Y RADIAL	5037.5	102.5 %	0.81			0.80%
Ag 328.068†	97358.4	504.92 ug/L	6.996	504.92 ppb	6.996	1.39%
QC value within limits for Ag 328.068 Recovery = 100.98%						
Al 396.153Radial†	5008.5	4931.3 ug/L	16.97	4931.3 ppb	16.97	0.34%
QC value within limits for Al 396.153Radial Recovery = 98.63%						
As 188.979†	895.6	508.99 ug/L	8.222	508.99 ppb	8.222	1.62%
QC value within limits for As 188.979 Recovery = 101.80%						
B 249.677†	17949.2	505.09 ug/L	6.245	505.09 ppb	6.245	1.24%
QC value within limits for B 249.677 Recovery = 101.02%						
Ba 233.527†	53516.8	510.00 ug/L	6.714	510.00 ppb	6.714	1.32%
QC value within limits for Ba 233.527 Recovery = 102.00%						
Be 313.107†	1185318.5	507.15 ug/L	0.688	507.15 ppb	0.688	0.14%
QC value within limits for Be 313.107 Recovery = 101.43%						
Ca 317.933Radial†	2656.6	5012.9 ug/L	41.24	5012.9 ppb	41.24	0.82%

QC value within limits for Ca 317.933 Radial Recovery = 100.26%

Cd 226.502†	34718.1	509.98 ug/L	6.548	509.98 ppb	6.548	1.28%
QC value within limits for Cd 226.502 Recovery = 102.00%						
Co 228.616†	19640.6	517.15 ug/L	5.945	517.15 ppb	5.945	1.15%
QC value within limits for Co 228.616 Recovery = 103.43%						
Cr 267.716†	37308.4	508.31 ug/L	6.361	508.31 ppb	6.361	1.25%
QC value within limits for Cr 267.716 Recovery = 101.66%						
Cu 324.752†	152937.3	506.65 ug/L	7.990	506.65 ppb	7.990	1.58%
QC value within limits for Cu 324.752 Recovery = 101.33%						
Fe 238.204 Radial†	439.1	5055.8 ug/L	68.54	5055.8 ppb	68.54	1.36%
QC value within limits for Fe 238.204 Radial Recovery = 101.12%						
K 766.490 Radial†	27296.1	5187.3 ug/L	18.31	5187.3 ppb	18.31	0.35%
QC value within limits for K 766.490 Radial Recovery = 103.75%						
Mg 279.077 IEC†	124.4	5164.5 ug/L	31.04	5164.5 ppb	31.04	0.60%
QC value within limits for Mg 279.077 IEC Recovery = 103.29%						
Mn 257.610†	379381.6	504.77 ug/L	0.248	504.77 ppb	0.248	0.05%
QC value within limits for Mn 257.610 Recovery = 100.95%						
Mo 202.031†	5500.5	495.43 ug/L	7.004	495.43 ppb	7.004	1.41%
QC value within limits for Mo 202.031 Recovery = 99.09%						
Na 589.592 Radial†	28800.2	10056 ug/L	36.4	10056 ppb	36.4	0.36%
QC value within limits for Na 589.592 Radial Recovery = 100.56%						
Ni 231.604†	15976.8	515.89 ug/L	5.710	515.89 ppb	5.710	1.11%
QC value within limits for Ni 231.604 Recovery = 103.18%						
P 214.914†	3307.5	2408.0 ug/L	36.91	2408.0 ppb	36.91	1.53%
QC value within limits for P 214.914 Recovery = 96.32%						
Pb 220.353†	3215.1	504.33 ug/L	6.777	504.33 ppb	6.777	1.34%
QC value within limits for Pb 220.353 Recovery = 100.87%						
S 181.975 Axial†	550.5	996.65 ug/L	8.908	996.65 ppb	8.908	0.89%
QC value within limits for S 181.975 Axial Recovery = 99.66%						
Sb 206.836†	1174.2	518.12 ug/L	4.459	518.12 ppb	4.459	0.86%
QC value within limits for Sb 206.836 Recovery = 103.62%						
Se 196.026†	607.3	523.46 ug/L	10.313	523.46 ppb	10.313	1.97%
QC value within limits for Se 196.026 Recovery = 104.69%						
Si 251.611†	67696.4	2579.3 ug/L	36.35	2579.3 ppb	36.35	1.41%
QC value within limits for Si 251.611 Recovery = 103.17%						
Sn 189.927†	2144.0	494.72 ug/L	6.856	494.72 ppb	6.856	1.39%
QC value within limits for Sn 189.927 Recovery = 98.94%						
Sr 421.552†	63296.1	495.88 ug/L	0.720	495.88 ppb	0.720	0.15%
QC value within limits for Sr 421.552 Recovery = 99.18%						
Ti 334.940†	284456.5	494.65 ug/L	6.839	494.65 ppb	6.839	1.38%
QC value within limits for Ti 334.940 Recovery = 98.93%						
Tl 190.801†	1273.8	505.99 ug/L	6.119	505.99 ppb	6.119	1.21%
QC value within limits for Tl 190.801 Recovery = 101.20%						
U 409.014†	17549.3	517.53 ug/L	5.689	517.53 ppb	5.689	1.10%
QC value within limits for U 409.014 Recovery = 103.51%						
V 292.402†	63316.4	513.81 ug/L	7.324	513.81 ppb	7.324	1.43%
QC value within limits for V 292.402 Recovery = 102.76%						
Zn 213.857†	41431.2	505.88 ug/L	6.352	505.88 ppb	6.352	1.26%
QC value within limits for Zn 213.857 Recovery = 101.18%						
SiO2†	67374.4	5456.4 ug/L	69.79	5456.4 ppb	69.79	1.28%
QC value within limits for SiO2 Recovery = 102.04%						

All analyte(s) passed QC.

Sequence No.: 19
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/22/2010 17:22:52
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4954.0	4954.0	109 %		17:24:44
1	Y RADIAL	5314.0	5314.0	108.1 %		17:24:44
1	Al 396.153Radial†	-73.3	5.8	5.7225 ug/L	5.7225 ppb	17:25:05
1	Ca 317.933Radial†	32.7	11.6	21.965 ug/L	21.965 ppb	17:25:05
1	Fe 238.204 Radial†	8.8	1.4	16.148 ug/L	16.148 ppb	17:25:05
1	K 766.490 Radial†	2584.1	-136.0	-25.903 ug/L	-25.903 ppb	17:24:44
1	Mg 279.077 IEC†	0.9	0.4	17.035 ug/L	17.035 ppb	17:25:05
1	Na 589.592 Radial†	-672.4	99.9	34.892 ug/L	34.892 ppb	17:24:44
1	Sr 421.552†	6.3	-31.7	-0.2482 ug/L	-0.2482 ppb	17:24:44
1	Sc 361.383	834067.1	834067.1	98.670 %		17:26:01
1	Y 371.029	702417.4	702417.4	98.523 %		17:26:01
1	Ag 328.068†	229.0	75.4	0.3940 ug/L	0.3940 ppb	17:26:01
1	As 188.979†	-18.3	3.6	2.0201 ug/L	2.0201 ppb	17:26:21
1	B 249.677†	-308.0	135.3	3.8224 ug/L	3.8224 ppb	17:26:21
1	Ba 233.527†	3.4	-8.6	-0.0807 ug/L	-0.0807 ppb	17:26:21
1	Be 313.107†	-4339.6	59.2	0.0250 ug/L	0.0250 ppb	17:26:01
1	Cd 226.502†	-175.7	-29.5	-0.4357 ug/L	-0.4357 ppb	17:26:21
1	Co 228.616†	-46.5	6.5	0.1713 ug/L	0.1713 ppb	17:26:21
1	Cr 267.716†	95.2	26.3	0.3597 ug/L	0.3597 ppb	17:26:21
1	Cu 324.752†	5611.3	160.9	0.5341 ug/L	0.5341 ppb	17:26:01
1	Mn 257.610†	470.8	90.8	0.1217 ug/L	0.1217 ppb	17:26:21
1	Mo 202.031†	13.7	1.0	0.0915 ug/L	0.0915 ppb	17:26:21
1	Ni 231.604†	77.9	6.4	0.2059 ug/L	0.2059 ppb	17:26:21
1	P 214.914†	199.7	1.7	1.1855 ug/L	1.1855 ppb	17:26:21
1	Pb 220.353†	-58.2	-10.1	-1.5834 ug/L	-1.5834 ppb	17:26:21
1	S 181.975 Axial†	37.1	7.7	13.973 ug/L	13.973 ppb	17:26:21
1	Sb 206.836†	33.4	8.4	3.6025 ug/L	3.6025 ppb	17:26:21
1	Se 196.026†	-22.5	-0.6	-0.4467 ug/L	-0.4467 ppb	17:26:21
1	Si 251.611†	697.0	187.6	7.1633 ug/L	7.1633 ppb	17:26:21
1	Sn 189.927†	6.0	2.3	0.5398 ug/L	0.5398 ppb	17:26:21
1	Ti 334.940†	-1105.2	-74.6	-0.1280 ug/L	-0.1280 ppb	17:26:01
1	Tl 190.801†	-26.5	2.3	0.8984 ug/L	0.8984 ppb	17:26:21
1	U 409.014†	-1938.1	-21.1	-0.6262 ug/L	-0.6262 ppb	17:26:01
1	V 292.402†	-1326.0	6.8	0.0526 ug/L	0.0526 ppb	17:26:01
1	Zn 213.857†	786.8	193.1	2.3755 ug/L	2.3755 ppb	17:26:21
1	SiO2†	702.1	175.3	14.226 ug/L	14.226 ppb	17:27:32
2	Sc Radial	4824.1	4824.1	106 %		17:25:10
2	Y RADIAL	5202.5	5202.5	105.8 %		17:25:10
2	Al 396.153Radial†	-69.1	8.0	7.9342 ug/L	7.9342 ppb	17:25:30
2	Ca 317.933Radial†	30.9	10.8	20.337 ug/L	20.337 ppb	17:25:30
2	Fe 238.204 Radial†	7.5	0.4	4.9837 ug/L	4.9837 ppb	17:25:30
2	K 766.490 Radial†	2623.7	-34.7	-6.6249 ug/L	-6.6249 ppb	17:25:10
2	Mg 279.077 IEC†	-0.3	-0.7	-28.743 ug/L	-28.743 ppb	17:25:30
2	Na 589.592 Radial†	-673.0	82.7	28.886 ug/L	28.886 ppb	17:25:10
2	Sr 421.552†	37.8	-1.8	-0.0144 ug/L	-0.0144 ppb	17:25:10
2	Sc 361.383	869416.6	869416.6	102.85 %		17:26:27
2	Y 371.029	731546.7	731546.7	102.61 %		17:26:27
2	Ag 328.068†	151.8	-9.1	-0.0498 ug/L	-0.0498 ppb	17:26:27
2	As 188.979†	-21.4	1.3	0.7444 ug/L	0.7444 ppb	17:26:47
2	B 249.677†	-315.6	140.5	3.9714 ug/L	3.9714 ppb	17:26:47
2	Ba 233.527†	6.9	-5.3	-0.0496 ug/L	-0.0496 ppb	17:26:47
2	Be 313.107†	-4391.9	187.2	0.0802 ug/L	0.0802 ppb	17:26:27
2	Cd 226.502†	-169.7	-16.5	-0.2417 ug/L	-0.2417 ppb	17:26:47
2	Co 228.616†	-43.8	11.1	0.2899 ug/L	0.2899 ppb	17:26:47
2	Cr 267.716†	86.8	14.2	0.1920 ug/L	0.1920 ppb	17:26:47
2	Cu 324.752†	5601.0	-80.3	-0.2693 ug/L	-0.2693 ppb	17:26:27
2	Mn 257.610†	459.0	60.0	0.0814 ug/L	0.0814 ppb	17:26:47
2	Mo 202.031†	9.6	-3.6	-0.3232 ug/L	-0.3232 ppb	17:26:47
2	Ni 231.604†	78.9	4.1	0.1320 ug/L	0.1320 ppb	17:26:47

2	P 214.914†	190.7	-15.3	-11.535 ug/L	-11.535 ppb	17:26:47
2	Pb 220.353†	-48.6	1.7	0.2646 ug/L	0.2646 ppb	17:26:47
2	S 181.975 Axial†	32.3	1.5	2.7019 ug/L	2.7019 ppb	17:26:47
2	Sb 206.836†	28.2	1.9	0.8290 ug/L	0.8290 ppb	17:26:47
2	Se 196.026†	-15.2	7.4	6.1651 ug/L	6.1651 ppb	17:26:47
2	Si 251.611†	687.4	149.5	5.7135 ug/L	5.7135 ppb	17:26:47
2	Sn 189.927†	7.8	3.9	0.8914 ug/L	0.8914 ppb	17:26:47
2	Ti 334.940†	-992.0	81.1	0.1432 ug/L	0.1432 ppb	17:26:27
2	Tl 190.801†	-25.7	4.1	1.6323 ug/L	1.6323 ppb	17:26:47
2	U 409.014†	-1780.2	212.3	6.2805 ug/L	6.2805 ppb	17:26:27
2	V 292.402†	-1357.8	30.6	0.2507 ug/L	0.2507 ppb	17:26:27
2	Zn 213.857†	779.7	153.8	1.8944 ug/L	1.8944 ppb	17:26:47
2	SiO2†	687.4	132.0	10.722 ug/L	10.722 ppb	17:27:52
3	Sc Radial	4696.5	4696.5	103 %		17:25:35
3	Y RADIAL	5044.3	5044.3	102.6 %		17:25:35
3	Al 396.153Radial†	-69.3	6.0	5.9543 ug/L	5.9543 ppb	17:25:55
3	Ca 317.933Radial†	27.5	8.3	15.574 ug/L	15.574 ppb	17:25:55
3	Fe 238.204 Radial†	6.9	0.1	0.6458 ug/L	0.6458 ppb	17:25:55
3	K 766.490 Radial†	2613.6	22.7	4.3076 ug/L	4.3076 ppb	17:25:35
3	Mg 279.077 IEC†	1.0	0.5	21.648 ug/L	21.648 ppb	17:25:55
3	Na 589.592 Radial†	-687.8	51.1	17.852 ug/L	17.852 ppb	17:25:35
3	Sr 421.552†	20.6	-17.5	-0.1371 ug/L	-0.1371 ppb	17:25:35
3	Sc 361.383	886338.0	886338.0	104.85 %		17:26:52
3	Y 371.029	746079.3	746079.3	104.65 %		17:26:52
3	Ag 328.068†	234.3	66.8	0.3405 ug/L	0.3405 ppb	17:26:52
3	As 188.979†	-25.0	-1.7	-0.9793 ug/L	-0.9793 ppb	17:27:12
3	B 249.677†	-327.0	135.6	3.8332 ug/L	3.8332 ppb	17:27:12
3	Ba 233.527†	23.1	10.0	0.0954 ug/L	0.0954 ppb	17:27:12
3	Be 313.107†	-4455.4	208.2	0.0890 ug/L	0.0890 ppb	17:26:52
3	Cd 226.502†	-164.1	-8.0	-0.1170 ug/L	-0.1170 ppb	17:27:12
3	Co 228.616†	-58.8	-2.4	-0.0644 ug/L	-0.0644 ppb	17:27:12
3	Cr 267.716†	76.1	2.4	0.0304 ug/L	0.0304 ppb	17:27:12
3	Cu 324.752†	5733.6	-57.8	-0.1944 ug/L	-0.1944 ppb	17:26:52
3	Mn 257.610†	458.5	50.9	0.0669 ug/L	0.0669 ppb	17:27:12
3	Mo 202.031†	11.9	-1.5	-0.1369 ug/L	-0.1369 ppb	17:27:12
3	Ni 231.604†	78.6	2.4	0.0764 ug/L	0.0764 ppb	17:27:12
3	P 214.914†	193.9	-15.8	-11.914 ug/L	-11.914 ppb	17:27:12
3	Pb 220.353†	-66.9	-14.9	-2.3264 ug/L	-2.3264 ppb	17:27:12
3	S 181.975 Axial†	29.0	-2.3	-4.1236 ug/L	-4.1236 ppb	17:27:12
3	Sb 206.836†	28.8	2.0	0.8397 ug/L	0.8397 ppb	17:27:12
3	Se 196.026†	-22.7	0.5	0.4377 ug/L	0.4377 ppb	17:27:12
3	Si 251.611†	688.1	137.4	5.2485 ug/L	5.2485 ppb	17:27:12
3	Sn 189.927†	-2.4	-6.0	-1.3878 ug/L	-1.3878 ppb	17:27:12
3	Ti 334.940†	-1070.4	24.7	0.0411 ug/L	0.0411 ppb	17:26:52
3	Tl 190.801†	-36.3	-5.5	-2.1609 ug/L	-2.1609 ppb	17:27:12
3	U 409.014†	-1859.4	169.8	5.0241 ug/L	5.0241 ppb	17:26:52
3	V 292.402†	-1407.7	8.1	0.0731 ug/L	0.0731 ppb	17:26:52
3	Zn 213.857†	782.8	142.2	1.7528 ug/L	1.7528 ppb	17:27:12
3	SiO2†	696.7	128.1	10.407 ug/L	10.407 ppb	17:28:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	863273.9	102.13 %		3.155			3.09%
Sc Radial	4824.9	106 %		2.8			2.67%
Y 371.029	726681.1	101.93 %		3.119			3.06%
Y RADIAL	5186.9	105.5 %		2.76			2.61%
Ag 328.068†	44.4	0.2282 ug/L		0.24224	0.2282 ppb	0.24224	106.13%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	6.6	6.5370 ug/L		1.21556	6.5370 ppb	1.21556	18.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.1	0.5951 ug/L		1.50526	0.5951 ppb	1.50526	252.95%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	137.2	3.8757 ug/L		0.08306	3.8757 ppb	0.08306	2.14%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-1.3	-0.0116 ug/L		0.09403	-0.0116 ppb	0.09403	807.31%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	151.5	0.0647 ug/L		0.03469	0.0647 ppb	0.03469	53.60%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	10.2	19.292 ug/L		3.3212	19.292 ppb	3.3212	17.22%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-18.0	-0.2648 ug/L	0.16063	-0.2648 ppb	0.16063	60.66%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	5.0	0.1323 ug/L	0.18035	0.1323 ppb	0.18035	136.36%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	14.3	0.1940 ug/L	0.16467	0.1940 ppb	0.16467	84.87%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	7.6	0.0235 ug/L	0.44382	0.0235 ppb	0.44382	>999.9%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.6	7.2592 ug/L	7.99765	7.2592 ppb	7.99765	110.17%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-49.3	-9.4068 ug/L	15.29623	-9.4068 ppb	15.29623	162.61%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.1	3.3132 ug/L	27.85710	3.3132 ppb	27.85710	840.80%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	67.3	0.0900 ug/L	0.02837	0.0900 ppb	0.02837	31.52%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.4	-0.1229 ug/L	0.20769	-0.1229 ppb	0.20769	169.06%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	77.9	27.210 ug/L	8.6427	27.210 ppb	8.6427	31.76%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	4.3	0.1381 ug/L	0.06500	0.1381 ppb	0.06500	47.07%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-9.8	-7.4212 ug/L	7.45600	-7.4212 ppb	7.45600	100.47%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-7.8	-1.2151 ug/L	1.33422	-1.2151 ppb	1.33422	109.81%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.3	4.1837 ug/L	9.13871	4.1837 ppb	9.13871	218.44%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.1	1.7571 ug/L	1.59819	1.7571 ppb	1.59819	90.96%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.4	2.0521 ug/L	3.58935	2.0521 ppb	3.58935	174.91%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	158.2	6.0418 ug/L	0.99875	6.0418 ppb	0.99875	16.53%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.0	0.0145 ug/L	1.22707	0.0145 ppb	1.22707	>999.9%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-17.0	-0.1332 ug/L	0.11692	-0.1332 ppb	0.11692	87.75%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	10.4	0.0188 ug/L	0.13699	0.0188 ppb	0.13699	729.43%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.3	0.1233 ug/L	2.01191	0.1233 ppb	2.01191	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	120.3	3.5595 ug/L	3.67893	3.5595 ppb	3.67893	103.36%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	15.2	0.1255 ug/L	0.10894	0.1255 ppb	0.10894	86.81%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	163.1	2.0076 ug/L	0.32645	2.0076 ppb	0.32645	16.26%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	145.1	11.785 ug/L	2.1200	11.785 ppb	2.1200	17.99%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/22/2010 17:30:33

Plasma On Time: 3/22/2010 06:16:18

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\032210.sif

Batch ID:

Results Data Set: 032210

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 37

Sample ID: 1202054534|958066|1

Date Collected: 3/22/2010 17:30:34

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1202054534|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4793.4	4793.4	105 %		17:32:28
1	Y RADIAL	5154.3	5154.3	104.8 %		17:32:28
1	Al 396.153Radial†	-67.5	9.0	8.9611 ug/L	8.9611 ppb	17:32:48
1	Ca 317.933Radial†	24.6	5.0	9.4554 ug/L	9.4554 ppb	17:32:48
1	Fe 238.204 Radial†	9.3	2.2	25.362 ug/L	25.362 ppb	17:32:48
1	K 766.490 Radial†	2610.3	-31.6	-6.0283 ug/L	-6.0283 ppb	17:32:28
1	Mg 279.077 IEC†	-0.5	-0.9	-36.730 ug/L	-36.730 ppb	17:32:48
1	Na 589.592 Radial†	-672.2	79.4	27.721 ug/L	27.721 ppb	17:32:28
1	Sr 421.552†	48.2	8.4	0.0654 ug/L	0.0654 ppb	17:32:28
1	Sc 361.383	872896.1	872896.1	103.26 %		17:33:45
1	Y 371.029	743305.0	743305.0	104.26 %		17:33:45
1	Ag 328.068†	120.9	-39.6	-0.2045 ug/L	-0.2045 ppb	17:33:45
1	As 188.979†	-24.5	-1.6	-0.9116 ug/L	-0.9116 ppb	17:34:05
1	B 249.677†	-337.7	120.4	3.4009 ug/L	3.4009 ppb	17:34:05
1	Ba 233.527†	4.3	-7.8	-0.0726 ug/L	-0.0726 ppb	17:34:05
1	Be 313.107†	-4502.5	97.2	0.0419 ug/L	0.0419 ppb	17:33:45
1	Cd 226.502†	-166.3	-12.5	-0.1845 ug/L	-0.1845 ppb	17:34:05
1	Co 228.616†	-58.1	-2.7	-0.0715 ug/L	-0.0715 ppb	17:34:05
1	Cr 267.716†	74.6	2.0	0.0264 ug/L	0.0264 ppb	17:34:05
1	Cu 324.752†	5658.7	-46.1	-0.1580 ug/L	-0.1580 ppb	17:33:45
1	Mn 257.610†	602.3	196.9	0.2659 ug/L	0.2659 ppb	17:34:05
1	Mo 202.031†	11.2	-2.0	-0.1807 ug/L	-0.1807 ppb	17:34:05
1	Ni 231.604†	77.8	2.7	0.0872 ug/L	0.0872 ppb	17:34:05
1	P 214.914†	202.0	-5.0	-3.7443 ug/L	-3.7443 ppb	17:34:05
1	Pb 220.353†	-53.0	-2.4	-0.3750 ug/L	-0.3750 ppb	17:34:05
1	S 181.975 Axial†	40.6	9.5	17.143 ug/L	17.143 ppb	17:34:05
1	Sb 206.836†	31.5	5.1	2.2413 ug/L	2.2413 ppb	17:34:05
1	Se 196.026†	-17.9	4.8	4.0688 ug/L	4.0688 ppb	17:34:05
1	Si 251.611†	838.0	292.7	11.180 ug/L	11.180 ppb	17:34:05
1	Sn 189.927†	25.5	21.0	4.8342 ug/L	4.8342 ppb	17:34:05
1	Ti 334.940†	-974.6	101.8	0.1762 ug/L	0.1762 ppb	17:33:45
1	Tl 190.801†	-34.8	-4.6	-1.8117 ug/L	-1.8117 ppb	17:34:05
1	U 409.014†	-1601.4	392.4	11.608 ug/L	11.608 ppb	17:33:45
1	V 292.402†	-1352.3	41.2	0.3449 ug/L	0.3449 ppb	17:33:45
1	Zn 213.857†	2362.7	1683.7	20.746 ug/L	20.746 ppb	17:34:05
1	SiO2†	869.1	305.3	24.793 ug/L	24.793 ppb	17:35:01
2	Sc Radial	4846.6	4846.6	106 %		17:32:53
2	Y RADIAL	5210.1	5210.1	106.0 %		17:32:53
2	Al 396.153Radial†	-67.6	9.7	9.5737 ug/L	9.5737 ppb	17:33:13
2	Ca 317.933Radial†	22.4	2.7	5.0974 ug/L	5.0974 ppb	17:33:13
2	Fe 238.204 Radial†	7.3	0.2	2.7962 ug/L	2.7962 ppb	17:33:13
2	K 766.490 Radial†	2530.2	-134.0	-25.519 ug/L	-25.519 ppb	17:32:53
2	Mg 279.077 IEC†	0.5	0.1	4.0015 ug/L	4.0015 ppb	17:33:13
2	Na 589.592 Radial†	-602.9	151.5	52.912 ug/L	52.912 ppb	17:32:53
2	Sr 421.552†	25.5	-13.5	-0.1061 ug/L	-0.1061 ppb	17:32:53
2	Sc 361.383	871719.1	871719.1	103.12 %		17:34:10
2	Y 371.029	745675.0	745675.0	104.59 %		17:34:10

2	Ag 328.068†	132.6	-28.1	-0.1427 ug/L	-0.1427 ppb	17:34:10
2	As 188.979†	-29.3	-6.3	-3.5652 ug/L	-3.5652 ppb	17:34:30
2	B 249.677†	-397.2	62.3	1.7600 ug/L	1.7600 ppb	17:34:30
2	Ba 233.527†	17.5	5.0	0.0493 ug/L	0.0493 ppb	17:34:30
2	Be 313.107†	-4505.7	88.2	0.0384 ug/L	0.0384 ppb	17:34:10
2	Cd 226.502†	-174.3	-20.5	-0.3014 ug/L	-0.3014 ppb	17:34:30
2	Co 228.616†	-52.2	3.0	0.0783 ug/L	0.0783 ppb	17:34:30
2	Cr 267.716†	53.8	-18.0	-0.2449 ug/L	-0.2449 ppb	17:34:30
2	Cu 324.752†	5704.0	5.1	0.0157 ug/L	0.0157 ppb	17:34:10
2	Mn 257.610†	628.7	223.4	0.2972 ug/L	0.2972 ppb	17:34:30
2	Mo 202.031†	13.1	-0.2	-0.0171 ug/L	-0.0171 ppb	17:34:30
2	Ni 231.604†	81.2	6.1	0.1970 ug/L	0.1970 ppb	17:34:30
2	P 214.914†	197.6	-9.0	-6.8339 ug/L	-6.8339 ppb	17:34:30
2	Pb 220.353†	-43.9	6.4	0.9951 ug/L	0.9951 ppb	17:34:30
2	S 181.975 Axial†	31.7	0.8	1.4836 ug/L	1.4836 ppb	17:34:30
2	Sb 206.836†	22.9	-3.2	-1.3347 ug/L	-1.3347 ppb	17:34:30
2	Se 196.026†	-14.5	8.1	6.7555 ug/L	6.7555 ppb	17:34:30
2	Si 251.611†	837.4	293.2	11.198 ug/L	11.198 ppb	17:34:30
2	Sn 189.927†	17.1	12.9	2.9629 ug/L	2.9629 ppb	17:34:30
2	Ti 334.940†	-891.6	180.9	0.3141 ug/L	0.3141 ppb	17:34:10
2	Tl 190.801†	-31.3	-1.3	-0.4982 ug/L	-0.4982 ppb	17:34:30
2	U 409.014†	-1914.9	86.3	2.5532 ug/L	2.5532 ppb	17:34:10
2	V 292.402†	-1289.5	100.2	0.8069 ug/L	0.8069 ppb	17:34:10
2	Zn 213.857†	2375.5	1699.2	20.940 ug/L	20.940 ppb	17:34:30
2	SiO2†	872.6	309.8	25.151 ug/L	25.151 ppb	17:35:06
3	Sc Radial	4823.6	4823.6	106 %		17:33:18
3	Y RADIAL	5194.9	5194.9	105.7 %		17:33:18
3	Al 396.153Radial†	-83.5	-5.6	-5.5391 ug/L	-5.5391 ppb	17:33:38
3	Ca 317.933Radial†	21.1	1.6	2.9960 ug/L	2.9960 ppb	17:33:38
3	Fe 238.204 Radial†	7.0	-0.1	-0.7079 ug/L	-0.7079 ppb	17:33:38
3	K 766.490 Radial†	2601.0	-55.9	-10.660 ug/L	-10.660 ppb	17:33:18
3	Mg 279.077 IEC†	0.3	-0.2	-6.3319 ug/L	-6.3319 ppb	17:33:38
3	Na 589.592 Radial†	-597.9	153.5	53.601 ug/L	53.601 ppb	17:33:18
3	Sr 421.552†	33.3	-6.0	-0.0472 ug/L	-0.0472 ppb	17:33:18
3	Sc 361.383	865304.3	865304.3	102.37 %		17:34:35
3	Y 371.029	738236.0	738236.0	103.55 %		17:34:35
3	Ag 328.068†	180.6	19.7	0.0991 ug/L	0.0991 ppb	17:34:35
3	As 188.979†	-22.5	0.1	0.0517 ug/L	0.0517 ppb	17:34:55
3	B 249.677†	-346.0	109.4	3.0917 ug/L	3.0917 ppb	17:34:55
3	Ba 233.527†	4.2	-7.9	-0.0739 ug/L	-0.0739 ppb	17:34:55
3	Be 313.107†	-4418.7	140.7	0.0603 ug/L	0.0603 ppb	17:34:35
3	Cd 226.502†	-181.0	-28.3	-0.4147 ug/L	-0.4147 ppb	17:34:55
3	Co 228.616†	-43.9	10.8	0.2831 ug/L	0.2831 ppb	17:34:55
3	Cr 267.716†	94.2	21.9	0.2959 ug/L	0.2959 ppb	17:34:55
3	Cu 324.752†	5726.4	68.1	0.2226 ug/L	0.2226 ppb	17:34:35
3	Mn 257.610†	582.0	182.2	0.2425 ug/L	0.2425 ppb	17:34:55
3	Mo 202.031†	12.8	-0.4	-0.0403 ug/L	-0.0403 ppb	17:34:55
3	Ni 231.604†	92.2	17.4	0.5630 ug/L	0.5630 ppb	17:34:55
3	P 214.914†	210.5	5.0	3.8019 ug/L	3.8019 ppb	17:34:55
3	Pb 220.353†	-58.5	-8.3	-1.2961 ug/L	-1.2961 ppb	17:34:55
3	S 181.975 Axial†	36.8	6.1	11.037 ug/L	11.037 ppb	17:34:55
3	Sb 206.836†	29.9	3.8	1.6800 ug/L	1.6800 ppb	17:34:55
3	Se 196.026†	-16.6	6.0	4.9787 ug/L	4.9787 ppb	17:34:55
3	Si 251.611†	854.9	316.3	12.081 ug/L	12.081 ppb	17:34:55
3	Sn 189.927†	24.1	19.8	4.5743 ug/L	4.5743 ppb	17:34:55
3	Ti 334.940†	-1024.0	45.2	0.0771 ug/L	0.0771 ppb	17:34:35
3	Tl 190.801†	-35.0	-5.1	-2.0125 ug/L	-2.0125 ppb	17:34:55
3	U 409.014†	-1807.9	177.0	5.2368 ug/L	5.2368 ppb	17:34:35
3	V 292.402†	-1317.3	63.8	0.5203 ug/L	0.5203 ppb	17:34:35
3	Zn 213.857†	2373.3	1714.2	21.123 ug/L	21.123 ppb	17:34:55
3	SiO2†	849.1	293.2	23.802 ug/L	23.802 ppb	17:35:11

Mean Data: 1202054534|958066|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869973.2	102.92 %	0.483			0.47%
Sc Radial	4821.2	106 %	0.6			0.55%
Y 371.029	742405.4	104.13 %	0.533			0.51%
Y RADIAL	5186.4	105.5 %	0.59			0.56%
Ag 328.068†	-16.0	-0.0827 ug/L	0.16047	-0.0827 ppb	0.16047	194.08%

Al 396.153Radial†	4.4	4.3319 ug/L	8.55401	4.3319 ppb	8.55401	197.46%
As 188.979†	-2.6	-1.4751 ug/L	1.87314	-1.4751 ppb	1.87314	126.99%
B 249.677†	97.4	2.7509 ug/L	0.87196	2.7509 ppb	0.87196	31.70%
Ba 233.527†	-3.6	-0.0324 ug/L	0.07076	-0.0324 ppb	0.07076	218.35%
Be 313.107†	108.7	0.0468 ug/L	0.01175	0.0468 ppb	0.01175	25.09%
Ca 317.933Radial†	3.1	5.8496 ug/L	3.29473	5.8496 ppb	3.29473	56.32%
Cd 226.502†	-20.5	-0.3002 ug/L	0.11509	-0.3002 ppb	0.11509	38.34%
Co 228.616†	3.7	0.0967 ug/L	0.17799	0.0967 ppb	0.17799	184.16%
Cr 267.716†	2.0	0.0258 ug/L	0.27040	0.0258 ppb	0.27040	>999.9%
Cu 324.752†	9.0	0.0268 ug/L	0.19050	0.0268 ppb	0.19050	712.15%
Fe 238.204 Radial†	0.8	9.1501 ug/L	14.14874	9.1501 ppb	14.14874	154.63%
K 766.490 Radial†	-73.8	-14.069 ug/L	10.1826	-14.069 ppb	10.1826	72.38%
Mg 279.077 IEC†	-0.3	-13.020 ug/L	21.1737	-13.020 ppb	21.1737	162.62%
Mn 257.610†	200.9	0.2685 ug/L	0.02741	0.2685 ppb	0.02741	10.21%
Mo 202.031†	-0.9	-0.0794 ug/L	0.08853	-0.0794 ppb	0.08853	111.51%
Na 589.592 Radial†	128.1	44.745 ug/L	14.7466	44.745 ppb	14.7466	32.96%
Ni 231.604†	8.7	0.2824 ug/L	0.24915	0.2824 ppb	0.24915	88.22%
P 214.914†	-3.0	-2.2588 ug/L	5.47129	-2.2588 ppb	5.47129	242.22%
Pb 220.353†	-1.4	-0.2253 ug/L	1.15293	-0.2253 ppb	1.15293	511.68%
S 181.975 Axial†	5.5	9.8878 ug/L	7.89256	9.8878 ppb	7.89256	79.82%
Sb 206.836†	1.9	0.8622 ug/L	1.92317	0.8622 ppb	1.92317	223.06%
Se 196.026†	6.3	5.2677 ug/L	1.36647	5.2677 ppb	1.36647	25.94%
Si 251.611†	300.7	11.486 ug/L	0.5153	11.486 ppb	0.5153	4.49%
Sn 189.927†	17.9	4.1238 ug/L	1.01371	4.1238 ppb	1.01371	24.58%
Sr 421.552†	-3.7	-0.0293 ug/L	0.08715	-0.0293 ppb	0.08715	297.46%
Ti 334.940†	109.3	0.1891 ug/L	0.11899	0.1891 ppb	0.11899	62.92%
Tl 190.801†	-3.7	-1.4408 ug/L	0.82244	-1.4408 ppb	0.82244	57.08%
U 409.014†	218.6	6.4659 ug/L	4.65077	6.4659 ppb	4.65077	71.93%
V 292.402†	68.4	0.5574 ug/L	0.23320	0.5574 ppb	0.23320	41.84%
Zn 213.857†	1699.0	20.936 ug/L	0.1883	20.936 ppb	0.1883	0.90%
SiO2†	302.8	24.582 ug/L	0.6989	24.582 ppb	0.6989	2.84%

Sequence No.: 2

Sample ID: 1202054535|958066|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 3/22/2010 17:37:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054535|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4752.9	4752.9	104 %		17:39:15
1	Y RADIAL	5055.3	5055.3	102.8 %		17:39:15
1	Al 396.153Radial†	5119.0	4975.7	4899.2 ug/L	4899.2 ppb	17:39:15
1	Ca 317.933Radial†	2765.2	2629.9	4962.7 ug/L	4962.7 ppb	17:39:35
1	Fe 238.204 Radial†	464.1	437.8	5039.9 ug/L	5039.9 ppb	17:39:35
1	K 766.490 Radial†	30861.3	27046.1	5141.8 ug/L	5141.8 ppb	17:39:15
1	Mg 279.077 IEC†	130.4	124.5	5170.1 ug/L	5170.1 ppb	17:39:35
1	Na 589.592 Radial†	13763.8	13899.6	4853.3 ug/L	4853.3 ppb	17:39:15
1	Sr 421.552†	65171.3	62378.5	488.69 ug/L	488.69 ppb	17:39:15
1	Sc 361.383	901084.7	901084.7	106.60 %		17:40:32
1	Y 371.029	746656.0	746656.0	104.73 %		17:40:32
1	Ag 328.068†	98322.8	92079.7	477.66 ug/L	477.66 ppb	17:40:37
1	As 188.979†	907.9	873.7	496.57 ug/L	496.57 ppb	17:40:58
1	B 249.677†	17973.8	17308.6	487.05 ug/L	487.05 ppb	17:40:37
1	Ba 233.527†	56193.5	52703.1	502.24 ug/L	502.24 ppb	17:40:37
1	Be 313.107†	1238966.9	1166729.6	499.19 ug/L	499.19 ppb	17:40:32
1	Cd 226.502†	35407.4	33364.1	490.08 ug/L	490.08 ppb	17:40:37
1	Co 228.616†	19937.7	18757.1	493.89 ug/L	493.89 ppb	17:40:37
1	Cr 267.716†	38604.9	36145.0	492.48 ug/L	492.48 ppb	17:40:37
1	Cu 324.752†	165693.7	149910.9	496.62 ug/L	496.62 ppb	17:40:37
1	Mn 257.610†	399942.0	374798.5	498.68 ug/L	498.68 ppb	17:40:32
1	Mo 202.031†	5789.3	5418.1	488.01 ug/L	488.01 ppb	17:40:58
1	Ni 231.604†	16736.5	15627.9	504.63 ug/L	504.63 ppb	17:40:37
1	P 214.914†	989.6	727.7	454.73 ug/L	454.73 ppb	17:40:58
1	Pb 220.353†	3316.5	3160.1	495.72 ug/L	495.72 ppb	17:40:58
1	S 181.975 Axial†	2974.7	2760.6	5001.3 ug/L	5001.3 ppb	17:40:58
1	Sb 206.836†	1311.0	1204.4	530.81 ug/L	530.81 ppb	17:40:58
1	Se 196.026†	602.6	587.4	506.83 ug/L	506.83 ppb	17:40:58
1	Si 251.611†	135542.8	126633.6	4830.2 ug/L	4830.2 ppb	17:40:37
1	Sn 189.927†	2292.7	2147.1	495.42 ug/L	495.42 ppb	17:40:58
1	Ti 334.940†	296147.0	278860.4	484.91 ug/L	484.91 ppb	17:40:37
1	Tl 190.801†	1319.6	1267.0	503.32 ug/L	503.32 ppb	17:40:58
1	U 409.014†	16803.1	17706.1	522.21 ug/L	522.21 ppb	17:40:37
1	V 292.402†	64611.9	61963.0	502.90 ug/L	502.90 ppb	17:40:37
1	Zn 213.857†	43287.0	40003.2	488.37 ug/L	488.37 ppb	17:40:37
1	SiO2†	137461.2	128415.7	10412 ug/L	10412 ppb	17:42:05
2	Sc Radial	4850.5	4850.5	107 %		17:39:40
2	Y RADIAL	5165.9	5165.9	105.1 %		17:39:40
2	Al 396.153Radial†	5223.2	4974.9	4898.7 ug/L	4898.7 ppb	17:39:40
2	Ca 317.933Radial†	2761.6	2573.3	4855.7 ug/L	4855.7 ppb	17:40:00
2	Fe 238.204 Radial†	461.8	426.7	4912.5 ug/L	4912.5 ppb	17:40:00
2	K 766.490 Radial†	31189.3	26759.3	5087.3 ug/L	5087.3 ppb	17:39:40
2	Mg 279.077 IEC†	130.2	121.8	5056.4 ug/L	5056.4 ppb	17:40:00
2	Na 589.592 Radial†	13933.6	13793.8	4816.3 ug/L	4816.3 ppb	17:39:40
2	Sr 421.552†	65753.5	61669.3	483.13 ug/L	483.13 ppb	17:39:40
2	Sc 361.383	901147.1	901147.1	106.61 %		17:41:03
2	Y 371.029	747893.2	747893.2	104.90 %		17:41:03
2	Ag 328.068†	99036.6	92743.0	481.04 ug/L	481.04 ppb	17:41:08
2	As 188.979†	906.7	872.6	495.91 ug/L	495.91 ppb	17:41:29
2	B 249.677†	18176.6	17497.7	492.42 ug/L	492.42 ppb	17:41:08
2	Ba 233.527†	56332.3	52829.6	503.44 ug/L	503.44 ppb	17:41:08
2	Be 313.107†	1239117.1	1166790.1	499.22 ug/L	499.22 ppb	17:41:03
2	Cd 226.502†	35511.1	33459.1	491.49 ug/L	491.49 ppb	17:41:08
2	Co 228.616†	19918.8	18738.1	493.37 ug/L	493.37 ppb	17:41:08
2	Cr 267.716†	38787.8	36314.0	494.76 ug/L	494.76 ppb	17:41:08
2	Cu 324.752†	167250.1	151360.1	501.41 ug/L	501.41 ppb	17:41:08
2	Mn 257.610†	399074.1	373958.3	497.55 ug/L	497.55 ppb	17:41:03
2	Mo 202.031†	5725.1	5357.4	482.54 ug/L	482.54 ppb	17:41:29
2	Ni 231.604†	16789.8	15676.8	506.21 ug/L	506.21 ppb	17:41:08

2	P 214.914†	990.6	728.5	454.48 ug/L	454.48 ppb	17:41:29
2	Pb 220.353†	3274.2	3120.2	489.48 ug/L	489.48 ppb	17:41:29
2	S 181.975 Axial†	2952.2	2739.3	4962.7 ug/L	4962.7 ppb	17:41:29
2	Sb 206.836†	1308.0	1201.5	529.46 ug/L	529.46 ppb	17:41:29
2	Se 196.026†	586.5	572.3	493.82 ug/L	493.82 ppb	17:41:29
2	Si 251.611†	136257.6	127295.3	4855.5 ug/L	4855.5 ppb	17:41:08
2	Sn 189.927†	2290.0	2144.4	494.78 ug/L	494.78 ppb	17:41:29
2	Ti 334.940†	297926.0	280509.9	487.77 ug/L	487.77 ppb	17:41:08
2	Tl 190.801†	1308.5	1256.6	499.21 ug/L	499.21 ppb	17:41:29
2	U 409.014†	16994.5	17884.6	527.50 ug/L	527.50 ppb	17:41:08
2	V 292.402†	64921.8	62249.5	505.14 ug/L	505.14 ppb	17:41:08
2	Zn 213.857†	43532.7	40230.8	491.18 ug/L	491.18 ppb	17:41:08
2	SiO2†	136393.8	127405.5	10330 ug/L	10330 ppb	17:42:10
3	Sc Radial	4813.7	4813.7	106 %		17:40:05
3	Y RADIAL	5165.6	5165.6	105.1 %		17:40:05
3	Al 396.153Radial†	5203.8	4994.0	4917.1 ug/L	4917.1 ppb	17:40:05
3	Ca 317.933Radial†	2762.1	2593.6	4894.0 ug/L	4894.0 ppb	17:40:25
3	Fe 238.204 Radial†	461.7	429.9	4949.2 ug/L	4949.2 ppb	17:40:25
3	K 766.490 Radial†	31228.6	27020.1	5136.9 ug/L	5136.9 ppb	17:40:05
3	Mg 279.077 IEC†	130.1	122.7	5092.1 ug/L	5092.1 ppb	17:40:25
3	Na 589.592 Radial†	13941.7	13901.4	4853.9 ug/L	4853.9 ppb	17:40:05
3	Sr 421.552†	65665.7	62057.8	486.18 ug/L	486.18 ppb	17:40:05
3	Sc 361.383	897308.1	897308.1	106.15 %		17:41:34
3	Y 371.029	745728.2	745728.2	104.60 %		17:41:34
3	Ag 328.068†	98430.6	92569.5	480.16 ug/L	480.16 ppb	17:41:40
3	As 188.979†	924.3	892.8	507.32 ug/L	507.32 ppb	17:42:00
3	B 249.677†	17957.5	17364.3	488.64 ug/L	488.64 ppb	17:41:40
3	Ba 233.527†	56144.2	52878.4	503.91 ug/L	503.91 ppb	17:41:40
3	Be 313.107†	1234856.2	1167749.0	499.63 ug/L	499.63 ppb	17:41:34
3	Cd 226.502†	35328.9	33430.0	491.05 ug/L	491.05 ppb	17:41:40
3	Co 228.616†	19846.5	18749.9	493.71 ug/L	493.71 ppb	17:41:40
3	Cr 267.716†	38587.8	36281.3	494.32 ug/L	494.32 ppb	17:41:40
3	Cu 324.752†	165620.5	150496.2	498.56 ug/L	498.56 ppb	17:41:40
3	Mn 257.610†	397051.6	373654.7	497.15 ug/L	497.15 ppb	17:41:34
3	Mo 202.031†	5806.8	5457.4	491.54 ug/L	491.54 ppb	17:42:00
3	Ni 231.604†	16654.8	15617.0	504.27 ug/L	504.27 ppb	17:41:40
3	P 214.914†	996.4	738.0	462.26 ug/L	462.26 ppb	17:42:00
3	Pb 220.353†	3297.8	3155.5	495.02 ug/L	495.02 ppb	17:42:00
3	S 181.975 Axial†	2982.3	2779.6	5035.6 ug/L	5035.6 ppb	17:42:00
3	Sb 206.836†	1332.6	1229.9	541.85 ug/L	541.85 ppb	17:42:00
3	Se 196.026†	593.0	580.8	501.02 ug/L	501.02 ppb	17:42:00
3	Si 251.611†	135376.9	127012.5	4844.6 ug/L	4844.6 ppb	17:41:40
3	Sn 189.927†	2310.7	2173.1	501.40 ug/L	501.40 ppb	17:42:00
3	Ti 334.940†	295882.1	279780.1	486.51 ug/L	486.51 ppb	17:41:40
3	Tl 190.801†	1302.8	1256.4	499.15 ug/L	499.15 ppb	17:42:00
3	U 409.014†	16846.0	17812.8	525.37 ug/L	525.37 ppb	17:41:40
3	V 292.402†	64554.5	62164.0	504.57 ug/L	504.57 ppb	17:41:40
3	Zn 213.857†	43185.1	40078.1	489.31 ug/L	489.31 ppb	17:41:40
3	SiO2†	136764.2	128301.8	10403 ug/L	10403 ppb	17:42:15

Mean Data: 1202054535|958066|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	899846.6	106.45 %		0.260			0.24%
Sc Radial	4805.7	106 %		1.1			1.03%
Y 371.029	746759.2	104.74 %		0.152			0.15%
Y RADIAL	5128.9	104.3 %		1.30			1.24%
Ag 328.068†	92464.1	479.62 ug/L		1.756	479.62 ppb	1.756	0.37%
Al 396.153Radial†	4981.6	4905.0 ug/L		10.48	4905.0 ppb	10.48	0.21%
As 188.979†	879.7	499.94 ug/L		6.404	499.94 ppb	6.404	1.28%
B 249.677†	17390.2	489.37 ug/L		2.757	489.37 ppb	2.757	0.56%
Ba 233.527†	52803.7	503.20 ug/L		0.861	503.20 ppb	0.861	0.17%
Be 313.107†	1167089.5	499.35 ug/L		0.245	499.35 ppb	0.245	0.05%
Ca 317.933Radial†	2598.9	4904.1 ug/L		54.18	4904.1 ppb	54.18	1.10%
Cd 226.502†	33417.7	490.87 ug/L		0.722	490.87 ppb	0.722	0.15%
Co 228.616†	18748.4	493.66 ug/L		0.263	493.66 ppb	0.263	0.05%
Cr 267.716†	36246.8	493.85 ug/L		1.213	493.85 ppb	1.213	0.25%
Cu 324.752†	150589.1	498.86 ug/L		2.411	498.86 ppb	2.411	0.48%
Fe 238.204 Radial†	431.5	4967.2 ug/L		65.61	4967.2 ppb	65.61	1.32%
K 766.490 Radial†	26941.8	5122.0 ug/L		30.15	5122.0 ppb	30.15	0.59%

Mg 279.077 IEC†	123.0	5106.2 ug/L	58.16	5106.2 ppb	58.16	1.14%
Mn 257.610†	374137.2	497.79 ug/L	0.791	497.79 ppb	0.791	0.16%
Mo 202.031†	5411.0	487.37 ug/L	4.534	487.37 ppb	4.534	0.93%
Na 589.592 Radial†	13864.9	4841.2 ug/L	21.52	4841.2 ppb	21.52	0.44%
Ni 231.604†	15640.5	505.04 ug/L	1.029	505.04 ppb	1.029	0.20%
P 214.914†	731.4	457.16 ug/L	4.423	457.16 ppb	4.423	0.97%
Pb 220.353†	3145.3	493.41 ug/L	3.420	493.41 ppb	3.420	0.69%
S 181.975 Axial†	2759.8	4999.8 ug/L	36.49	4999.8 ppb	36.49	0.73%
Sb 206.836†	1211.9	534.04 ug/L	6.795	534.04 ppb	6.795	1.27%
Se 196.026†	580.2	500.56 ug/L	6.517	500.56 ppb	6.517	1.30%
Si 251.611†	126980.5	4843.4 ug/L	12.71	4843.4 ppb	12.71	0.26%
Sn 189.927†	2154.9	497.20 ug/L	3.654	497.20 ppb	3.654	0.73%
Sr 421.552†	62035.2	486.00 ug/L	2.782	486.00 ppb	2.782	0.57%
Ti 334.940†	279716.8	486.40 ug/L	1.434	486.40 ppb	1.434	0.29%
Tl 190.801†	1260.0	500.56 ug/L	2.388	500.56 ppb	2.388	0.48%
U 409.014†	17801.2	525.02 ug/L	2.662	525.02 ppb	2.662	0.51%
V 292.402†	62125.5	504.20 ug/L	1.165	504.20 ppb	1.165	0.23%
Zn 213.857†	40104.0	489.62 ug/L	1.430	489.62 ppb	1.430	0.29%
SiO2†	128041.0	10382 ug/L	44.8	10382 ppb	44.8	0.43%

Sequence No.: 3
 Sample ID: 247908001|958066|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 39
 Date Collected: 3/22/2010 17:44:26
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247908001|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4882.8	4882.8	107 %			17:46:18
1	Y RADIAL	5255.5	5255.5	106.9 %			17:46:18
1	Al 396.153Radial†	-60.8	16.5	16.303 ug/L		16.303 ppb	17:46:38
1	Ca 317.933Radial†	61.7	39.1	73.820 ug/L		73.820 ppb	17:46:38
1	Fe 238.204 Radial†	9.5	2.2	25.082 ug/L		25.082 ppb	17:46:38
1	K 766.490 Radial†	3733.2	969.9	184.42 ug/L		184.42 ppb	17:46:18
1	Mg 279.077 IEC†	-0.8	-1.1	-46.183 ug/L		-46.183 ppb	17:46:38
1	Na 589.592 Radial†	-23.5	695.9	242.98 ug/L		242.98 ppb	17:46:18
1	Sr 421.552†	40.9	0.7	0.0050 ug/L		0.0050 ppb	17:46:18
1	Sc 361.383	890290.4	890290.4	105.32 %			17:47:35
1	Y 371.029	747544.6	747544.6	104.85 %			17:47:35
1	Ag 328.068†	195.9	29.3	0.1590 ug/L		0.1590 ppb	17:47:35
1	As 188.979†	-30.0	-6.4	-3.5923 ug/L		-3.5923 ppb	17:47:55
1	B 249.677†	693.0	1105.4	31.242 ug/L		31.242 ppb	17:47:55
1	Ba 233.527†	31.4	17.8	0.1729 ug/L		0.1729 ppb	17:47:55
1	Be 313.107†	-4396.2	283.3	0.1225 ug/L		0.1225 ppb	17:47:35
1	Cd 226.502†	-175.0	-17.7	-0.2603 ug/L		-0.2603 ppb	17:47:55
1	Co 228.616†	-43.8	12.0	0.3152 ug/L		0.3152 ppb	17:47:55
1	Cr 267.716†	72.6	-1.3	-0.0151 ug/L		-0.0151 ppb	17:47:55
1	Cu 324.752†	7095.6	1211.1	4.0110 ug/L		4.0110 ppb	17:47:35
1	Mn 257.610†	678.9	258.3	0.3478 ug/L		0.3478 ppb	17:47:55
1	Mo 202.031†	17.9	4.1	0.3704 ug/L		0.3704 ppb	17:47:55
1	Ni 231.604†	114.6	36.2	1.1706 ug/L		1.1706 ppb	17:47:55
1	P 214.914†	202.1	-8.8	-7.4885 ug/L		-7.4885 ppb	17:47:55
1	Pb 220.353†	-58.8	-6.9	-1.0790 ug/L		-1.0790 ppb	17:47:55
1	S 181.975 Axial†	39.6	7.7	13.937 ug/L		13.937 ppb	17:47:55
1	Sb 206.836†	26.6	-0.2	-0.0879 ug/L		-0.0879 ppb	17:47:55
1	Se 196.026†	-14.0	8.9	7.4963 ug/L		7.4963 ppb	17:47:55
1	Si 251.611†	42427.5	39764.9	1518.6 ug/L		1518.6 ppb	17:47:35
1	Sn 189.927†	4.8	0.8	0.2016 ug/L		0.2016 ppb	17:47:55
1	Ti 334.940†	-694.1	386.5	0.6840 ug/L		0.6840 ppb	17:47:35
1	Tl 190.801†	-28.8	1.7	0.6815 ug/L		0.6815 ppb	17:47:55
1	U 409.014†	-1885.0	153.4	4.5354 ug/L		4.5354 ppb	17:47:35
1	V 292.402†	-1265.9	148.8	1.2005 ug/L		1.2005 ppb	17:47:35
1	Zn 213.857†	842.7	195.8	2.3967 ug/L		2.3967 ppb	17:47:55
1	SiO2†	42600.0	39911.2	3240.2 ug/L		3240.2 ppb	17:48:51
2	Sc Radial	4882.2	4882.2	107 %			17:46:43
2	Y RADIAL	5214.4	5214.4	106.0 %			17:46:43
2	Al 396.153Radial†	-59.2	18.0	17.805 ug/L		17.805 ppb	17:47:03
2	Ca 317.933Radial†	57.5	35.3	66.544 ug/L		66.544 ppb	17:47:03
2	Fe 238.204 Radial†	7.6	0.5	5.1784 ug/L		5.1784 ppb	17:47:03
2	K 766.490 Radial†	3850.8	1079.9	205.35 ug/L		205.35 ppb	17:46:43
2	Mg 279.077 IEC†	1.6	1.1	44.191 ug/L		44.191 ppb	17:47:03
2	Na 589.592 Radial†	-44.2	676.6	236.24 ug/L		236.24 ppb	17:46:43
2	Sr 421.552†	61.2	19.6	0.1534 ug/L		0.1534 ppb	17:46:43
2	Sc 361.383	894405.2	894405.2	105.81 %			17:48:00
2	Y 371.029	751861.2	751861.2	105.46 %			17:48:00
2	Ag 328.068†	133.6	-30.5	-0.1557 ug/L		-0.1557 ppb	17:48:00
2	As 188.979†	-22.2	1.1	0.6210 ug/L		0.6210 ppb	17:48:21
2	B 249.677†	675.7	1086.0	30.699 ug/L		30.699 ppb	17:48:21
2	Ba 233.527†	28.5	15.0	0.1446 ug/L		0.1446 ppb	17:48:21
2	Be 313.107†	-4479.5	223.7	0.0971 ug/L		0.0971 ppb	17:48:00
2	Cd 226.502†	-155.9	1.2	0.0179 ug/L		0.0179 ppb	17:48:21
2	Co 228.616†	-49.5	6.8	0.1779 ug/L		0.1779 ppb	17:48:21
2	Cr 267.716†	101.2	25.5	0.3465 ug/L		0.3465 ppb	17:48:21
2	Cu 324.752†	7189.3	1268.7	4.2007 ug/L		4.2007 ppb	17:48:00
2	Mn 257.610†	678.1	254.6	0.3373 ug/L		0.3373 ppb	17:48:21
2	Mo 202.031†	14.9	1.2	0.1097 ug/L		0.1097 ppb	17:48:21
2	Ni 231.604†	102.6	24.3	0.7854 ug/L		0.7854 ppb	17:48:21

2	P 214.914†	195.9	-15.6	-12.619 ug/L	-12.619 ppb	17:48:21
2	Pb 220.353†	-51.6	0.1	0.0185 ug/L	0.0185 ppb	17:48:21
2	S 181.975 Axial†	43.8	11.5	20.878 ug/L	20.878 ppb	17:48:21
2	Sb 206.836†	31.9	4.7	2.0148 ug/L	2.0148 ppb	17:48:21
2	Se 196.026†	-18.2	5.0	4.1556 ug/L	4.1556 ppb	17:48:21
2	Si 251.611†	42657.5	39796.9	1519.9 ug/L	1519.9 ppb	17:48:00
2	Sn 189.927†	7.2	3.1	0.7147 ug/L	0.7147 ppb	17:48:21
2	Ti 334.940†	-690.1	393.3	0.6874 ug/L	0.6874 ppb	17:48:00
2	Tl 190.801†	-25.4	5.1	2.0249 ug/L	2.0249 ppb	17:48:21
2	U 409.014†	-1892.2	154.8	4.5793 ug/L	4.5793 ppb	17:48:00
2	V 292.402†	-1289.8	131.7	1.0642 ug/L	1.0642 ppb	17:48:00
2	Zn 213.857†	849.3	198.3	2.4329 ug/L	2.4329 ppb	17:48:21
2	SiO2†	42608.8	39733.4	3225.8 ug/L	3225.8 ppb	17:48:56
3	Sc Radial	4902.4	4902.4	108 %		17:47:08
3	Y RADIAL	5254.9	5254.9	106.9 %		17:47:08
3	Al 396.153Radial†	-65.4	12.4	12.332 ug/L	12.332 ppb	17:47:28
3	Ca 317.933Radial†	50.3	28.4	53.561 ug/L	53.561 ppb	17:47:28
3	Fe 238.204 Radial†	8.6	1.3	15.461 ug/L	15.461 ppb	17:47:28
3	K 766.490 Radial†	3894.0	1105.2	210.18 ug/L	210.18 ppb	17:47:08
3	Mg 279.077 IEC†	0.3	-0.1	-5.7549 ug/L	-5.7549 ppb	17:47:28
3	Na 589.592 Radial†	-7.4	710.9	248.23 ug/L	248.23 ppb	17:47:08
3	Sr 421.552†	71.4	28.9	0.2257 ug/L	0.2257 ppb	17:47:08
3	Sc 361.383	889467.9	889467.9	105.22 %		17:48:26
3	Y 371.029	748209.4	748209.4	104.95 %		17:48:26
3	Ag 328.068†	104.6	-57.3	-0.2912 ug/L	-0.2912 ppb	17:48:26
3	As 188.979†	-29.2	-5.7	-3.2010 ug/L	-3.2010 ppb	17:48:46
3	B 249.677†	657.0	1071.9	30.295 ug/L	30.295 ppb	17:48:46
3	Ba 233.527†	42.1	28.1	0.2695 ug/L	0.2695 ppb	17:48:46
3	Be 313.107†	-4383.6	291.4	0.1256 ug/L	0.1256 ppb	17:48:26
3	Cd 226.502†	-169.0	-12.2	-0.1785 ug/L	-0.1785 ppb	17:48:46
3	Co 228.616†	-31.3	23.9	0.6255 ug/L	0.6255 ppb	17:48:46
3	Cr 267.716†	84.2	9.9	0.1355 ug/L	0.1355 ppb	17:48:46
3	Cu 324.752†	7225.6	1340.8	4.4402 ug/L	4.4402 ppb	17:48:26
3	Mn 257.610†	683.7	263.4	0.3521 ug/L	0.3521 ppb	17:48:46
3	Mo 202.031†	3.8	-9.3	-0.8354 ug/L	-0.8354 ppb	17:48:46
3	Ni 231.604†	108.4	30.4	0.9830 ug/L	0.9830 ppb	17:48:46
3	P 214.914†	211.8	0.6	-0.4477 ug/L	-0.4477 ppb	17:48:46
3	Pb 220.353†	-68.3	-16.0	-2.5121 ug/L	-2.5121 ppb	17:48:46
3	S 181.975 Axial†	44.4	12.3	22.353 ug/L	22.353 ppb	17:48:46
3	Sb 206.836†	29.1	2.2	0.9342 ug/L	0.9342 ppb	17:48:46
3	Se 196.026†	-12.6	10.2	8.5208 ug/L	8.5208 ppb	17:48:46
3	Si 251.611†	42535.4	39904.7	1524.0 ug/L	1524.0 ppb	17:48:26
3	Sn 189.927†	5.8	1.8	0.4311 ug/L	0.4311 ppb	17:48:46
3	Ti 334.940†	-772.2	311.7	0.5476 ug/L	0.5476 ppb	17:48:26
3	Tl 190.801†	-23.7	6.6	2.5910 ug/L	2.5910 ppb	17:48:46
3	U 409.014†	-1871.5	164.5	4.8662 ug/L	4.8662 ppb	17:48:26
3	V 292.402†	-1291.3	123.5	0.9837 ug/L	0.9837 ppb	17:48:26
3	Zn 213.857†	858.9	212.0	2.5976 ug/L	2.5976 ppb	17:48:46
3	SiO2†	42411.1	39769.0	3228.7 ug/L	3228.7 ppb	17:49:01

Mean Data: 247908001|958066|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	891387.8	105.45 %		0.313			0.30%
Sc Radial	4889.1	107 %		0.3			0.23%
Y 371.029	749205.1	105.09 %		0.326			0.31%
Y RADIAL	5241.6	106.6 %		0.48			0.45%
Ag 328.068†	-19.5	-0.0960 ug/L		0.23099	-0.0960 ppb	0.23099	240.69%
Al 396.153Radial†	15.6	15.480 ug/L		2.8277	15.480 ppb	2.8277	18.27%
As 188.979†	-3.7	-2.0574 ug/L		2.32780	-2.0574 ppb	2.32780	113.14%
B 249.677†	1087.8	30.745 ug/L		0.4755	30.745 ppb	0.4755	1.55%
Ba 233.527†	20.3	0.1956 ug/L		0.06546	0.1956 ppb	0.06546	33.46%
Be 313.107†	266.1	0.1150 ug/L		0.01566	0.1150 ppb	0.01566	13.61%
Ca 317.933Radial†	34.3	64.641 ug/L		10.2625	64.641 ppb	10.2625	15.88%
Cd 226.502†	-9.5	-0.1403 ug/L		0.14301	-0.1403 ppb	0.14301	101.92%
Co 228.616†	14.2	0.3729 ug/L		0.22932	0.3729 ppb	0.22932	61.50%
Cr 267.716†	11.4	0.1556 ug/L		0.18165	0.1556 ppb	0.18165	116.71%
Cu 324.752†	1273.5	4.2173 ug/L		0.21508	4.2173 ppb	0.21508	5.10%
Fe 238.204 Radial†	1.3	15.240 ug/L		9.9535	15.240 ppb	9.9535	65.31%
K 766.490 Radial†	1051.6	199.98 ug/L		13.694	199.98 ppb	13.694	6.85%

Mg 279.077 IEC†	-0.1	-2.5824 ug/L	45.27019	-2.5824 ppb	45.27019	>999.9%
Mn 257.610†	258.8	0.3457 ug/L	0.00762	0.3457 ppb	0.00762	2.21%
Mo 202.031†	-1.3	-0.1184 ug/L	0.63445	-0.1184 ppb	0.63445	535.75%
Na 589.592 Radial†	694.5	242.49 ug/L	6.011	242.49 ppb	6.011	2.48%
Ni 231.604†	30.3	0.9797 ug/L	0.19260	0.9797 ppb	0.19260	19.66%
P 214.914†	-7.9	-6.8519 ug/L	6.11078	-6.8519 ppb	6.11078	89.18%
Pb 220.353†	-7.6	-1.1909 ug/L	1.26904	-1.1909 ppb	1.26904	106.57%
S 181.975 Axial†	10.5	19.056 ug/L	4.4941	19.056 ppb	4.4941	23.58%
Sb 206.836†	2.2	0.9537 ug/L	1.05145	0.9537 ppb	1.05145	110.25%
Se 196.026†	8.0	6.7242 ug/L	2.28275	6.7242 ppb	2.28275	33.95%
Si 251.611†	39822.2	1520.8 ug/L	2.80	1520.8 ppb	2.80	0.18%
Sn 189.927†	1.9	0.4491 ug/L	0.25701	0.4491 ppb	0.25701	57.22%
Sr 421.552†	16.4	0.1280 ug/L	0.11250	0.1280 ppb	0.11250	87.86%
Ti 334.940†	363.8	0.6397 ug/L	0.07976	0.6397 ppb	0.07976	12.47%
Tl 190.801†	4.5	1.7658 ug/L	0.98080	1.7658 ppb	0.98080	55.54%
U 409.014†	157.6	4.6603 ug/L	0.17968	4.6603 ppb	0.17968	3.86%
V 292.402†	134.7	1.0828 ug/L	0.10956	1.0828 ppb	0.10956	10.12%
Zn 213.857†	202.0	2.4757 ug/L	0.10707	2.4757 ppb	0.10707	4.32%
SiO2†	39804.5	3231.6 ug/L	7.63	3231.6 ppb	7.63	0.24%

Sequence No.: 4
 Sample ID: 247908002|958066|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 40
 Date Collected: 3/22/2010 17:51:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247908002|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4814.0	4814.0	106 %		17:53:05
1	Y RADIAL	5190.8	5190.8	105.6 %		17:53:05
1	Al 396.153Radial†	-52.5	23.6	23.324 ug/L	23.324 ppb	17:53:25
1	Ca 317.933Radial†	62.5	40.8	76.948 ug/L	76.948 ppb	17:53:25
1	Fe 238.204 Radial†	8.3	1.2	14.040 ug/L	14.040 ppb	17:53:25
1	K 766.490 Radial†	3515.8	814.0	154.76 ug/L	154.76 ppb	17:53:05
1	Mg 279.077 IEC†	3.9	3.3	137.94 ug/L	137.94 ppb	17:53:25
1	Na 589.592 Radial†	-32.0	687.5	240.04 ug/L	240.04 ppb	17:53:05
1	Sr 421.552†	48.4	8.3	0.0648 ug/L	0.0648 ppb	17:53:05
1	Sc 361.383	887879.2	887879.2	105.04 %		17:54:21
1	Y 371.029	745697.3	745697.3	104.59 %		17:54:21
1	Ag 328.068†	136.9	-26.4	-0.1355 ug/L	-0.1355 ppb	17:54:21
1	As 188.979†	-25.5	-2.2	-1.2263 ug/L	-1.2263 ppb	17:54:41
1	B 249.677†	638.4	1055.2	29.826 ug/L	29.826 ppb	17:54:41
1	Ba 233.527†	56.0	41.4	0.3952 ug/L	0.3952 ppb	17:54:41
1	Be 313.107†	-4503.5	169.8	0.0740 ug/L	0.0740 ppb	17:54:21
1	Cd 226.502†	-165.1	-8.7	-0.1274 ug/L	-0.1274 ppb	17:54:41
1	Co 228.616†	-46.2	9.6	0.2520 ug/L	0.2520 ppb	17:54:41
1	Cr 267.716†	89.8	15.3	0.2084 ug/L	0.2084 ppb	17:54:41
1	Cu 324.752†	7245.3	1371.9	4.5421 ug/L	4.5421 ppb	17:54:21
1	Mn 257.610†	844.9	418.1	0.5517 ug/L	0.5517 ppb	17:54:41
1	Mo 202.031†	12.7	-0.8	-0.0692 ug/L	-0.0692 ppb	17:54:41
1	Ni 231.604†	89.9	13.0	0.4188 ug/L	0.4188 ppb	17:54:41
1	P 214.914†	194.1	-15.8	-12.873 ug/L	-12.873 ppb	17:54:41
1	Pb 220.353†	-60.6	-8.8	-1.3758 ug/L	-1.3758 ppb	17:54:41
1	S 181.975 Axial†	50.8	18.5	33.531 ug/L	33.531 ppb	17:54:41
1	Sb 206.836†	30.0	3.1	1.3664 ug/L	1.3664 ppb	17:54:41
1	Se 196.026†	-18.7	4.3	3.6547 ug/L	3.6547 ppb	17:54:41
1	Si 251.611†	42769.5	40199.9	1535.3 ug/L	1535.3 ppb	17:54:21
1	Sn 189.927†	20.6	15.9	3.6877 ug/L	3.6877 ppb	17:54:41
1	Ti 334.940†	-703.7	375.6	0.6496 ug/L	0.6496 ppb	17:54:21
1	Tl 190.801†	-30.4	0.2	0.0781 ug/L	0.0781 ppb	17:54:41
1	U 409.014†	-1818.0	212.4	6.2814 ug/L	6.2814 ppb	17:54:21
1	V 292.402†	-1344.4	70.8	0.5777 ug/L	0.5777 ppb	17:54:21
1	Zn 213.857†	865.5	219.7	2.6972 ug/L	2.6972 ppb	17:54:41
1	SiO2†	42928.2	40333.5	3274.5 ug/L	3274.5 ppb	17:55:38
2	Sc Radial	4798.5	4798.5	105 %		17:53:30
2	Y RADIAL	5194.6	5194.6	105.6 %		17:53:30
2	Al 396.153Radial†	-53.5	22.5	22.234 ug/L	22.234 ppb	17:53:50
2	Ca 317.933Radial†	64.3	42.6	80.390 ug/L	80.390 ppb	17:53:50
2	Fe 238.204 Radial†	8.0	1.0	11.277 ug/L	11.277 ppb	17:53:50
2	K 766.490 Radial†	3588.6	893.8	169.94 ug/L	169.94 ppb	17:53:30
2	Mg 279.077 IEC†	3.2	2.6	107.78 ug/L	107.78 ppb	17:53:50
2	Na 589.592 Radial†	-31.8	687.6	240.07 ug/L	240.07 ppb	17:53:30
2	Sr 421.552†	23.2	-15.4	-0.1215 ug/L	-0.1215 ppb	17:53:30
2	Sc 361.383	895765.5	895765.5	105.97 %		17:54:47
2	Y 371.029	752599.1	752599.1	105.56 %		17:54:47
2	Ag 328.068†	198.8	30.9	0.1606 ug/L	0.1606 ppb	17:54:47
2	As 188.979†	-27.8	-4.2	-2.3362 ug/L	-2.3362 ppb	17:55:07
2	B 249.677†	582.8	997.4	28.191 ug/L	28.191 ppb	17:55:07
2	Ba 233.527†	39.1	24.9	0.2406 ug/L	0.2406 ppb	17:55:07
2	Be 313.107†	-4488.8	221.4	0.0962 ug/L	0.0962 ppb	17:54:47
2	Cd 226.502†	-161.6	-4.0	-0.0578 ug/L	-0.0578 ppb	17:55:07
2	Co 228.616†	-38.4	17.4	0.4555 ug/L	0.4555 ppb	17:55:07
2	Cr 267.716†	91.7	16.4	0.2223 ug/L	0.2223 ppb	17:55:07
2	Cu 324.752†	7277.4	1341.4	4.4394 ug/L	4.4394 ppb	17:54:47
2	Mn 257.610†	819.7	387.2	0.5116 ug/L	0.5116 ppb	17:55:07
2	Mo 202.031†	10.6	-2.9	-0.2591 ug/L	-0.2591 ppb	17:55:07
2	Ni 231.604†	101.4	23.1	0.7459 ug/L	0.7459 ppb	17:55:07

2	P 214.914†	189.6	-21.8	-17.356 ug/L	-17.356 ppb	17:55:07
2	Pb 220.353†	-48.6	3.0	0.4770 ug/L	0.4770 ppb	17:55:07
2	S 181.975 Axial†	38.2	6.2	11.147 ug/L	11.147 ppb	17:55:07
2	Sb 206.836†	31.3	4.1	1.7845 ug/L	1.7845 ppb	17:55:07
2	Se 196.026†	-17.1	6.0	5.0692 ug/L	5.0692 ppb	17:55:07
2	Si 251.611†	43248.4	40293.3	1538.8 ug/L	1538.8 ppb	17:54:47
2	Sn 189.927†	19.6	14.8	3.4260 ug/L	3.4260 ppb	17:55:07
2	Ti 334.940†	-655.1	427.3	0.7412 ug/L	0.7412 ppb	17:54:47
2	Tl 190.801†	-35.6	-4.5	-1.7812 ug/L	-1.7812 ppb	17:55:07
2	U 409.014†	-1726.5	313.9	9.2859 ug/L	9.2859 ppb	17:54:47
2	V 292.402†	-1223.4	196.2	1.5850 ug/L	1.5850 ppb	17:54:47
2	Zn 213.857†	883.1	229.1	2.8106 ug/L	2.8106 ppb	17:55:07
2	SiO2†	42982.8	40025.2	3249.5 ug/L	3249.5 ppb	17:55:43
3	Sc Radial	4859.7	4859.7	107 %		17:53:55
3	Y RADIAL	5213.8	5213.8	106.0 %		17:53:55
3	Al 396.153Radial†	-47.8	28.4	28.104 ug/L	28.104 ppb	17:54:15
3	Ca 317.933Radial†	60.2	38.0	71.725 ug/L	71.725 ppb	17:54:15
3	Fe 238.204 Radial†	6.3	-0.7	-8.3034 ug/L	-8.3034 ppb	17:54:15
3	K 766.490 Radial†	3643.7	902.5	171.61 ug/L	171.61 ppb	17:53:55
3	Mg 279.077 IEC†	1.7	1.2	48.214 ug/L	48.214 ppb	17:54:15
3	Na 589.592 Radial†	-62.3	659.4	230.24 ug/L	230.24 ppb	17:53:55
3	Sr 421.552†	51.9	11.2	0.0871 ug/L	0.0871 ppb	17:53:55
3	Sc 361.383	888382.8	888382.8	105.10 %		17:55:12
3	Y 371.029	747304.8	747304.8	104.82 %		17:55:12
3	Ag 328.068†	151.9	-12.1	-0.0628 ug/L	-0.0628 ppb	17:55:12
3	As 188.979†	-15.4	7.4	4.2024 ug/L	4.2024 ppb	17:55:32
3	B 249.677†	632.6	1049.3	29.663 ug/L	29.663 ppb	17:55:32
3	Ba 233.527†	43.9	29.8	0.2856 ug/L	0.2856 ppb	17:55:32
3	Be 313.107†	-4402.4	268.4	0.1163 ug/L	0.1163 ppb	17:55:12
3	Cd 226.502†	-164.6	-8.2	-0.1180 ug/L	-0.1180 ppb	17:55:32
3	Co 228.616†	-48.3	7.7	0.2004 ug/L	0.2004 ppb	17:55:32
3	Cr 267.716†	84.2	9.9	0.1352 ug/L	0.1352 ppb	17:55:32
3	Cu 324.752†	7221.0	1344.9	4.4539 ug/L	4.4539 ppb	17:55:12
3	Mn 257.610†	842.0	414.9	0.5489 ug/L	0.5489 ppb	17:55:32
3	Mo 202.031†	13.3	-0.2	-0.0193 ug/L	-0.0193 ppb	17:55:32
3	Ni 231.604†	111.0	33.0	1.0664 ug/L	1.0664 ppb	17:55:32
3	P 214.914†	192.2	-17.8	-14.309 ug/L	-14.309 ppb	17:55:32
3	Pb 220.353†	-42.8	8.2	1.2888 ug/L	1.2888 ppb	17:55:32
3	S 181.975 Axial†	54.5	21.9	39.766 ug/L	39.766 ppb	17:55:32
3	Sb 206.836†	22.3	-4.2	-1.7209 ug/L	-1.7209 ppb	17:55:32
3	Se 196.026†	-17.4	5.6	4.6743 ug/L	4.6743 ppb	17:55:32
3	Si 251.611†	42822.0	40226.8	1536.3 ug/L	1536.3 ppb	17:55:12
3	Sn 189.927†	23.0	18.1	4.1936 ug/L	4.1936 ppb	17:55:32
3	Ti 334.940†	-652.6	424.6	0.7431 ug/L	0.7431 ppb	17:55:12
3	Tl 190.801†	-29.5	1.0	0.3974 ug/L	0.3974 ppb	17:55:32
3	U 409.014†	-1960.1	78.1	2.3118 ug/L	2.3118 ppb	17:55:12
3	V 292.402†	-1256.6	155.0	1.2469 ug/L	1.2469 ppb	17:55:12
3	Zn 213.857†	867.0	220.7	2.7079 ug/L	2.7079 ppb	17:55:32
3	SiO2†	42510.9	39913.3	3240.4 ug/L	3240.4 ppb	17:55:48

Mean Data: 247908002|958066|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	890675.8	105.37 %		0.522			0.50%
Sc Radial	4824.1	106 %		0.7			0.66%
Y 371.029	748533.7	104.99 %		0.507			0.48%
Y RADIAL	5199.8	105.8 %		0.25			0.24%
Ag 328.068†	-2.5	-0.0126 ug/L		0.15432	-0.0126 ppb	0.15432	>999.9%
Al 396.153Radial†	24.8	24.554 ug/L		3.1226	24.554 ppb	3.1226	12.72%
As 188.979†	0.4	0.2133 ug/L		3.49893	0.2133 ppb	3.49893	>999.9%
B 249.677†	1034.0	29.227 ug/L		0.9003	29.227 ppb	0.9003	3.08%
Ba 233.527†	32.0	0.3071 ug/L		0.07954	0.3071 ppb	0.07954	25.90%
Be 313.107†	219.8	0.0955 ug/L		0.02116	0.0955 ppb	0.02116	22.17%
Ca 317.933Radial†	40.5	76.354 ug/L		4.3627	76.354 ppb	4.3627	5.71%
Cd 226.502†	-7.0	-0.1011 ug/L		0.03778	-0.1011 ppb	0.03778	37.38%
Co 228.616†	11.6	0.3026 ug/L		0.13490	0.3026 ppb	0.13490	44.57%
Cr 267.716†	13.9	0.1886 ug/L		0.04681	0.1886 ppb	0.04681	24.81%
Cu 324.752†	1352.7	4.4785 ug/L		0.05560	4.4785 ppb	0.05560	1.24%
Fe 238.204 Radial†	0.5	5.6714 ug/L		12.18115	5.6714 ppb	12.18115	214.78%
K 766.490 Radial†	870.1	165.44 ug/L		9.282	165.44 ppb	9.282	5.61%

Mg 279.077 IEC†	2.4	97.976 ug/L	45.6580	97.976 ppb	45.6580	46.60%
Mn 257.610†	406.7	0.5374 ug/L	0.02236	0.5374 ppb	0.02236	4.16%
Mo 202.031†	-1.3	-0.1159 ug/L	0.12652	-0.1159 ppb	0.12652	109.17%
Na 589.592 Radial†	678.1	236.79 ug/L	5.670	236.79 ppb	5.670	2.39%
Ni 231.604†	23.0	0.7437 ug/L	0.32384	0.7437 ppb	0.32384	43.55%
P 214.914†	-18.5	-14.846 ug/L	2.2892	-14.846 ppb	2.2892	15.42%
Pb 220.353†	0.8	0.1300 ug/L	1.36573	0.1300 ppb	1.36573	>999.9%
S 181.975 Axial†	15.5	28.148 ug/L	15.0500	28.148 ppb	15.0500	53.47%
Sb 206.836†	1.0	0.4767 ug/L	1.91462	0.4767 ppb	1.91462	401.66%
Se 196.026†	5.3	4.4661 ug/L	0.72991	4.4661 ppb	0.72991	16.34%
Si 251.611†	40240.0	1536.8 ug/L	1.84	1536.8 ppb	1.84	0.12%
Sn 189.927†	16.3	3.7691 ug/L	0.39027	3.7691 ppb	0.39027	10.35%
Sr 421.552†	1.4	0.0102 ug/L	0.11452	0.0102 ppb	0.11452	>999.9%
Ti 334.940†	409.2	0.7113 ug/L	0.05346	0.7113 ppb	0.05346	7.52%
Tl 190.801†	-1.1	-0.4352 ug/L	1.17653	-0.4352 ppb	1.17653	270.32%
U 409.014†	201.5	5.9597 ug/L	3.49813	5.9597 ppb	3.49813	58.70%
V 292.402†	140.6	1.1365 ug/L	0.51267	1.1365 ppb	0.51267	45.11%
Zn 213.857†	223.2	2.7386 ug/L	0.06264	2.7386 ppb	0.06264	2.29%
SiO2†	40090.6	3254.8 ug/L	17.67	3254.8 ppb	17.67	0.54%

Sequence No.: 5
 Sample ID: 247908003|958066|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 41
 Date Collected: 3/22/2010 17:57:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247908003|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4872.9	4872.9	107 %		17:59:51
1	Y RADIAL	5240.1	5240.1	106.6 %		17:59:51
1	Al 396.153Radial†	-35.2	40.3	39.859 ug/L	39.859 ppb	18:00:11
1	Ca 317.933Radial†	56.4	34.3	64.745 ug/L	64.745 ppb	18:00:11
1	Fe 238.204 Radial†	13.1	5.6	64.165 ug/L	64.165 ppb	18:00:11
1	K 766.490 Radial†	3687.8	934.5	177.69 ug/L	177.69 ppb	17:59:51
1	Mg 279.077 IEC†	2.4	1.8	74.490 ug/L	74.490 ppb	18:00:11
1	Na 589.592 Radial†	-53.7	667.6	233.09 ug/L	233.09 ppb	17:59:51
1	Sr 421.552†	74.0	31.7	0.2480 ug/L	0.2480 ppb	17:59:51
1	Sc 361.383	892409.6	892409.6	105.57 %		18:01:08
1	Y 371.029	749160.1	749160.1	105.08 %		18:01:08
1	Ag 328.068†	138.3	-25.7	-0.1120 ug/L	-0.1120 ppb	18:01:08
1	As 188.979†	-25.3	-1.9	-1.0689 ug/L	-1.0689 ppb	18:01:28
1	B 249.677†	573.9	991.1	28.004 ug/L	28.004 ppb	18:01:28
1	Ba 233.527†	29.0	15.5	0.1521 ug/L	0.1521 ppb	18:01:28
1	Be 313.107†	-4443.5	248.4	0.1070 ug/L	0.1070 ppb	18:01:08
1	Cd 226.502†	-173.4	-15.8	-0.2369 ug/L	-0.2369 ppb	18:01:28
1	Co 228.616†	-43.3	12.6	0.3308 ug/L	0.3308 ppb	18:01:28
1	Cr 267.716†	78.4	4.1	0.0627 ug/L	0.0627 ppb	18:01:28
1	Cu 324.752†	8161.2	2204.4	7.3044 ug/L	7.3044 ppb	18:01:08
1	Mn 257.610†	1155.7	708.4	0.9452 ug/L	0.9452 ppb	18:01:28
1	Mo 202.031†	18.6	4.8	0.4338 ug/L	0.4338 ppb	18:01:28
1	Ni 231.604†	109.5	31.1	1.0055 ug/L	1.0055 ppb	18:01:28
1	P 214.914†	212.0	0.2	-1.3403 ug/L	-1.3403 ppb	18:01:28
1	Pb 220.353†	-50.3	1.2	0.1905 ug/L	0.1905 ppb	18:01:28
1	S 181.975 Axial†	54.2	21.4	38.783 ug/L	38.783 ppb	18:01:28
1	Sb 206.836†	33.3	6.1	2.6122 ug/L	2.6122 ppb	18:01:28
1	Se 196.026†	-9.4	13.3	11.253 ug/L	11.253 ppb	18:01:28
1	Si 251.611†	43142.1	40346.1	1540.8 ug/L	1540.8 ppb	18:01:08
1	Sn 189.927†	7.4	3.3	0.7569 ug/L	0.7569 ppb	18:01:28
1	Ti 334.940†	-848.2	242.1	0.4222 ug/L	0.4222 ppb	18:01:08
1	Tl 190.801†	-26.8	3.7	1.4833 ug/L	1.4833 ppb	18:01:28
1	U 409.014†	-1921.9	122.7	3.6238 ug/L	3.6238 ppb	18:01:08
1	V 292.402†	-1279.1	139.1	1.1186 ug/L	1.1186 ppb	18:01:08
1	Zn 213.857†	1177.5	511.0	6.2721 ug/L	6.2721 ppb	18:01:28
1	SiO2†	42661.3	39873.2	3237.1 ug/L	3237.1 ppb	18:02:24
2	Sc Radial	5188.3	5188.3	114 %		18:00:16
2	Y RADIAL	5595.2	5595.2	113.8 %		18:00:16
2	Al 396.153Radial†	-62.9	17.9	17.752 ug/L	17.752 ppb	18:00:36
2	Ca 317.933Radial†	57.1	31.8	59.917 ug/L	59.917 ppb	18:00:36
2	Fe 238.204 Radial†	15.0	6.5	74.521 ug/L	74.521 ppb	18:00:36
2	K 766.490 Radial†	3625.9	670.8	127.53 ug/L	127.53 ppb	18:00:16
2	Mg 279.077 IEC†	3.1	2.3	97.461 ug/L	97.461 ppb	18:00:36
2	Na 589.592 Radial†	-129.0	604.6	211.09 ug/L	211.09 ppb	18:00:16
2	Sr 421.552†	54.0	10.0	0.0775 ug/L	0.0775 ppb	18:00:16
2	Sc 361.383	881176.7	881176.7	104.24 %		18:01:33
2	Y 371.029	740260.8	740260.8	103.83 %		18:01:33
2	Ag 328.068†	175.3	11.4	0.0831 ug/L	0.0831 ppb	18:01:33
2	As 188.979†	-18.7	4.2	2.3660 ug/L	2.3660 ppb	18:01:53
2	B 249.677†	576.6	1000.6	28.270 ug/L	28.270 ppb	18:01:53
2	Ba 233.527†	35.8	22.3	0.2169 ug/L	0.2169 ppb	18:01:53
2	Be 313.107†	-4426.8	210.7	0.0911 ug/L	0.0911 ppb	18:01:33
2	Cd 226.502†	-174.1	-18.5	-0.2791 ug/L	-0.2791 ppb	18:01:53
2	Co 228.616†	-43.4	12.0	0.3145 ug/L	0.3145 ppb	18:01:53
2	Cr 267.716†	101.9	27.6	0.3834 ug/L	0.3834 ppb	18:01:53
2	Cu 324.752†	8085.0	2229.9	7.3899 ug/L	7.3899 ppb	18:01:33
2	Mn 257.610†	1156.3	722.9	0.9647 ug/L	0.9647 ppb	18:01:53
2	Mo 202.031†	14.3	0.8	0.0759 ug/L	0.0759 ppb	18:01:53
2	Ni 231.604†	103.5	26.7	0.8628 ug/L	0.8628 ppb	18:01:53

2	P 214.914†	199.1	-9.7	-8.8552 ug/L	-8.8552 ppb	18:01:53
2	Pb 220.353†	-51.8	-0.7	-0.1256 ug/L	-0.1256 ppb	18:01:53
2	S 181.975 Axial†	44.3	12.6	22.787 ug/L	22.787 ppb	18:01:53
2	Sb 206.836†	24.5	-2.0	-0.8161 ug/L	-0.8161 ppb	18:01:53
2	Se 196.026†	-23.1	0.0	0.2499 ug/L	0.2499 ppb	18:01:53
2	Si 251.611†	42492.7	40244.1	1536.9 ug/L	1536.9 ppb	18:01:33
2	Sn 189.927†	8.9	4.8	1.1166 ug/L	1.1166 ppb	18:01:53
2	Ti 334.940†	-792.2	285.6	0.4954 ug/L	0.4954 ppb	18:01:33
2	Tl 190.801†	-29.7	0.6	0.2432 ug/L	0.2432 ppb	18:01:53
2	U 409.014†	-1924.0	97.5	2.8763 ug/L	2.8763 ppb	18:01:33
2	V 292.402†	-1273.1	129.4	1.0332 ug/L	1.0332 ppb	18:01:33
2	Zn 213.857†	1168.6	516.7	6.3414 ug/L	6.3414 ppb	18:01:53
2	SiO2†	43259.7	40962.4	3325.6 ug/L	3325.6 ppb	18:02:29
3	Sc Radial	4791.0	4791.0	105 %		18:00:41
3	Y RADIAL	5163.5	5163.5	105.0 %		18:00:41
3	Al 396.153Radial†	-58.5	17.5	17.357 ug/L	17.357 ppb	18:01:01
3	Ca 317.933Radial†	58.6	37.3	70.451 ug/L	70.451 ppb	18:01:01
3	Fe 238.204 Radial†	15.2	7.8	89.632 ug/L	89.632 ppb	18:01:01
3	K 766.490 Radial†	3557.4	869.5	165.34 ug/L	165.34 ppb	18:00:41
3	Mg 279.077 IEC†	2.2	1.7	69.526 ug/L	69.526 ppb	18:01:01
3	Na 589.592 Radial†	-136.6	587.9	205.29 ug/L	205.29 ppb	18:00:41
3	Sr 421.552†	67.3	26.5	0.2068 ug/L	0.2068 ppb	18:00:41
3	Sc 361.383	888429.8	888429.8	105.10 %		18:01:58
3	Y 371.029	746651.3	746651.3	104.73 %		18:01:58
3	Ag 328.068†	156.8	-7.5	-0.0142 ug/L	-0.0142 ppb	18:01:58
3	As 188.979†	-23.8	-0.5	-0.2757 ug/L	-0.2757 ppb	18:02:18
3	B 249.677†	575.3	994.8	28.105 ug/L	28.105 ppb	18:02:18
3	Ba 233.527†	50.0	35.6	0.3429 ug/L	0.3429 ppb	18:02:18
3	Be 313.107†	-4433.3	239.2	0.1030 ug/L	0.1030 ppb	18:01:58
3	Cd 226.502†	-167.8	-11.2	-0.1718 ug/L	-0.1718 ppb	18:02:18
3	Co 228.616†	-41.4	14.2	0.3727 ug/L	0.3727 ppb	18:02:18
3	Cr 267.716†	107.3	31.9	0.4420 ug/L	0.4420 ppb	18:02:18
3	Cu 324.752†	8234.3	2308.6	7.6497 ug/L	7.6497 ppb	18:01:58
3	Mn 257.610†	1150.7	708.5	0.9482 ug/L	0.9482 ppb	18:02:18
3	Mo 202.031†	13.8	0.2	0.0285 ug/L	0.0285 ppb	18:02:18
3	Ni 231.604†	118.7	40.3	1.3013 ug/L	1.3013 ppb	18:02:18
3	P 214.914†	186.3	-23.4	-19.338 ug/L	-19.338 ppb	18:02:18
3	Pb 220.353†	-38.6	12.2	1.8903 ug/L	1.8903 ppb	18:02:18
3	S 181.975 Axial†	47.0	14.8	26.889 ug/L	26.889 ppb	18:02:18
3	Sb 206.836†	34.9	7.8	3.3334 ug/L	3.3334 ppb	18:02:18
3	Se 196.026†	-27.0	-3.5	-2.6827 ug/L	-2.6827 ppb	18:02:18
3	Si 251.611†	42961.1	40356.9	1541.2 ug/L	1541.2 ppb	18:01:58
3	Sn 189.927†	6.8	2.7	0.6325 ug/L	0.6325 ppb	18:02:18
3	Ti 334.940†	-851.9	235.0	0.4098 ug/L	0.4098 ppb	18:01:58
3	Tl 190.801†	-36.1	-5.2	-2.0585 ug/L	-2.0585 ppb	18:02:18
3	U 409.014†	-1832.3	199.8	5.9000 ug/L	5.9000 ppb	18:01:58
3	V 292.402†	-1335.6	79.9	0.6392 ug/L	0.6392 ppb	18:01:58
3	Zn 213.857†	1186.1	524.3	6.4291 ug/L	6.4291 ppb	18:02:18
3	SiO2†	42731.0	40120.5	3257.2 ug/L	3257.2 ppb	18:02:34

Mean Data: 247908003|958066|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity		Units		Conc. Units		
Sc 361.383	887338.7	104.97	%	0.674			0.64%
Sc Radial	4950.7	109	%	4.6			4.24%
Y 371.029	745357.4	104.55	%	0.644			0.62%
Y RADIAL	5332.9	108.5	%	4.68			4.32%
Ag 328.068†	-7.3	-0.0144	ug/L	0.09754	-0.0144 ppb	0.09754	678.35%
Al 396.153Radial†	25.3	24.989	ug/L	12.8789	24.989 ppb	12.8789	51.54%
As 188.979†	0.6	0.3404	ug/L	1.79842	0.3404 ppb	1.79842	528.25%
B 249.677†	995.5	28.126	ug/L	0.1344	28.126 ppb	0.1344	0.48%
Ba 233.527†	24.5	0.2373	ug/L	0.09705	0.2373 ppb	0.09705	40.90%
Be 313.107†	232.8	0.1004	ug/L	0.00829	0.1004 ppb	0.00829	8.26%
Ca 317.933Radial†	34.5	65.038	ug/L	5.2735	65.038 ppb	5.2735	8.11%
Cd 226.502†	-15.2	-0.2293	ug/L	0.05401	-0.2293 ppb	0.05401	23.56%
Co 228.616†	13.0	0.3393	ug/L	0.03007	0.3393 ppb	0.03007	8.86%
Cr 267.716†	21.2	0.2960	ug/L	0.20417	0.2960 ppb	0.20417	68.97%
Cu 324.752†	2247.6	7.4480	ug/L	0.17983	7.4480 ppb	0.17983	2.41%
Fe 238.204 Radial†	6.6	76.106	ug/L	12.8074	76.106 ppb	12.8074	16.83%
K 766.490 Radial†	824.9	156.85	ug/L	26.136	156.85 ppb	26.136	16.66%

Mg 279.077 IEC†	1.9	80.492 ug/L	14.9034	80.492 ppb	14.9034	18.52%
Mn 257.610†	713.3	0.9527 ug/L	0.01050	0.9527 ppb	0.01050	1.10%
Mo 202.031†	1.9	0.1794 ug/L	0.22155	0.1794 ppb	0.22155	123.49%
Na 589.592 Radial†	620.0	216.49 ug/L	14.667	216.49 ppb	14.667	6.77%
Ni 231.604†	32.7	1.0565 ug/L	0.22365	1.0565 ppb	0.22365	21.17%
P 214.914†	-11.0	-9.8445 ug/L	9.03958	-9.8445 ppb	9.03958	91.82%
Pb 220.353†	4.2	0.6518 ug/L	1.08421	0.6518 ppb	1.08421	166.35%
S 181.975 Axial†	16.3	29.486 ug/L	8.3082	29.486 ppb	8.3082	28.18%
Sb 206.836†	4.0	1.7098 ug/L	2.21706	1.7098 ppb	2.21706	129.67%
Se 196.026†	3.3	2.9400 ug/L	7.34684	2.9400 ppb	7.34684	249.89%
Si 251.611†	40315.7	1539.7 ug/L	2.38	1539.7 ppb	2.38	0.15%
Sn 189.927†	3.6	0.8353 ug/L	0.25143	0.8353 ppb	0.25143	30.10%
Sr 421.552†	22.7	0.1774 ug/L	0.08893	0.1774 ppb	0.08893	50.12%
Ti 334.940†	254.2	0.4425 ug/L	0.04627	0.4425 ppb	0.04627	10.46%
Tl 190.801†	-0.3	-0.1107 ug/L	1.79722	-0.1107 ppb	1.79722	>999.9%
U 409.014†	140.0	4.1334 ug/L	1.57491	4.1334 ppb	1.57491	38.10%
V 292.402†	116.1	0.9304 ug/L	0.25576	0.9304 ppb	0.25576	27.49%
Zn 213.857†	517.3	6.3476 ug/L	0.07867	6.3476 ppb	0.07867	1.24%
SiO2†	40318.7	3273.3 ug/L	46.36	3273.3 ppb	46.36	1.42%

Sequence No.: 7
 Sample ID: 1202054536|958066|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 43
 Date Collected: 3/22/2010 18:11:31
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202054536|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4765.2	4765.2	105 %		18:13:24
1	Y RADIAL	5086.7	5086.7	103.5 %		18:13:24
1	Al 396.153Radial†	71.7	141.6	140.09 ug/L	140.09 ppb	18:13:44
1	Ca 317.933Radial†	51.8	31.1	58.730 ug/L	58.730 ppb	18:13:44
1	Fe 238.204 Radial†	14.9	7.6	87.637 ug/L	87.637 ppb	18:13:44
1	K 766.490 Radial†	2988.9	344.7	65.512 ug/L	65.512 ppb	18:13:24
1	Mg 279.077 IEC†	1.4	0.9	37.458 ug/L	37.458 ppb	18:13:44
1	Na 589.592 Radial†	-336.2	396.6	138.49 ug/L	138.49 ppb	18:13:24
1	Sr 421.552†	64.9	24.5	0.1919 ug/L	0.1919 ppb	18:13:24
1	Sc 361.383	877891.6	877891.6	103.85 %		18:14:41
1	Y 371.029	737011.0	737011.0	103.38 %		18:14:41
1	Ag 328.068†	199.4	35.3	0.2105 ug/L	0.2105 ppb	18:14:41
1	As 188.979†	-17.5	5.2	2.9728 ug/L	2.9728 ppb	18:15:01
1	B 249.677†	-389.4	72.5	2.0361 ug/L	2.0361 ppb	18:15:01
1	Ba 233.527†	166.7	148.5	1.4167 ug/L	1.4167 ppb	18:15:01
1	Be 313.107†	-4476.4	147.1	0.0683 ug/L	0.0683 ppb	18:14:41
1	Cd 226.502†	-175.1	-20.1	-0.3040 ug/L	-0.3040 ppb	18:15:01
1	Co 228.616†	-60.8	-4.9	-0.1348 ug/L	-0.1348 ppb	18:15:01
1	Cr 267.716†	121.7	47.0	0.6493 ug/L	0.6493 ppb	18:15:01
1	Cu 324.752†	5718.7	-19.6	-0.0611 ug/L	-0.0611 ppb	18:14:41
1	Mn 257.610†	2349.9	1876.4	2.5023 ug/L	2.5023 ppb	18:15:01
1	Mo 202.031†	18.5	4.9	0.4469 ug/L	0.4469 ppb	18:15:01
1	Ni 231.604†	100.5	24.2	0.7807 ug/L	0.7807 ppb	18:15:01
1	P 214.914†	205.2	-3.1	-2.3666 ug/L	-2.3666 ppb	18:15:01
1	Pb 220.353†	-45.1	5.4	0.8728 ug/L	0.8728 ppb	18:15:01
1	S 181.975 Axial†	44.7	13.1	23.750 ug/L	23.750 ppb	18:15:01
1	Sb 206.836†	22.8	-3.5	-1.5093 ug/L	-1.5093 ppb	18:15:01
1	Se 196.026†	-17.8	5.1	4.5063 ug/L	4.5063 ppb	18:15:01
1	Si 251.611†	8491.7	7657.7	292.45 ug/L	292.45 ppb	18:14:41
1	Sn 189.927†	2.5	-1.3	-0.2874 ug/L	-0.2874 ppb	18:15:01
1	Ti 334.940†	373.4	1405.0	2.4480 ug/L	2.4480 ppb	18:14:41
1	Tl 190.801†	-23.8	6.2	2.4823 ug/L	2.4823 ppb	18:15:01
1	U 409.014†	-1963.9	52.2	1.5333 ug/L	1.5333 ppb	18:14:41
1	V 292.402†	-1289.7	108.9	0.8667 ug/L	0.8667 ppb	18:14:41
1	Zn 213.857†	748.1	116.1	1.4124 ug/L	1.4124 ppb	18:15:01
1	SiO2†	8473.4	7622.6	618.83 ug/L	618.83 ppb	18:15:57
2	Sc Radial	4812.3	4812.3	106 %		18:13:49
2	Y RADIAL	5154.5	5154.5	104.8 %		18:13:49
2	Al 396.153Radial†	63.4	133.2	131.78 ug/L	131.78 ppb	18:14:09
2	Ca 317.933Radial†	52.7	31.5	59.461 ug/L	59.461 ppb	18:14:09
2	Fe 238.204 Radial†	16.3	8.7	100.36 ug/L	100.36 ppb	18:14:09
2	K 766.490 Radial†	2996.1	323.6	61.494 ug/L	61.494 ppb	18:13:49
2	Mg 279.077 IEC†	-1.6	-1.9	-79.355 ug/L	-79.355 ppb	18:14:09
2	Na 589.592 Radial†	-299.1	434.8	151.83 ug/L	151.83 ppb	18:13:49
2	Sr 421.552†	92.1	49.6	0.3885 ug/L	0.3885 ppb	18:13:49
2	Sc 361.383	883698.0	883698.0	104.54 %		18:15:06
2	Y 371.029	741783.9	741783.9	104.04 %		18:15:06
2	Ag 328.068†	230.7	64.0	0.3592 ug/L	0.3592 ppb	18:15:06
2	As 188.979†	-21.1	1.9	1.1417 ug/L	1.1417 ppb	18:15:26
2	B 249.677†	-440.1	26.5	0.7322 ug/L	0.7322 ppb	18:15:26
2	Ba 233.527†	172.3	152.8	1.4566 ug/L	1.4566 ppb	18:15:26
2	Be 313.107†	-4462.3	188.9	0.0864 ug/L	0.0864 ppb	18:15:06
2	Cd 226.502†	-179.4	-23.2	-0.3499 ug/L	-0.3499 ppb	18:15:26
2	Co 228.616†	-59.6	-3.4	-0.0974 ug/L	-0.0974 ppb	18:15:26
2	Cr 267.716†	131.0	55.1	0.7590 ug/L	0.7590 ppb	18:15:26
2	Cu 324.752†	5738.1	-37.2	-0.1197 ug/L	-0.1197 ppb	18:15:06
2	Mn 257.610†	2320.9	1833.8	2.4516 ug/L	2.4516 ppb	18:15:26
2	Mo 202.031†	8.7	-4.6	-0.4025 ug/L	-0.4025 ppb	18:15:26
2	Ni 231.604†	94.6	17.9	0.5787 ug/L	0.5787 ppb	18:15:26

2	P 214.914†	189.6	-19.3	-14.678 ug/L	-14.678 ppb	18:15:26
2	Pb 220.353†	-46.9	4.1	0.6510 ug/L	0.6510 ppb	18:15:26
2	S 181.975 Axial†	43.0	11.2	20.349 ug/L	20.349 ppb	18:15:26
2	Sb 206.836†	34.3	7.4	3.1257 ug/L	3.1257 ppb	18:15:26
2	Se 196.026†	-9.9	12.7	10.944 ug/L	10.944 ppb	18:15:26
2	Si 251.611†	8417.2	7532.7	287.68 ug/L	287.68 ppb	18:15:06
2	Sn 189.927†	7.7	3.6	0.8453 ug/L	0.8453 ppb	18:15:26
2	Ti 334.940†	436.2	1462.8	2.5572 ug/L	2.5572 ppb	18:15:06
2	Tl 190.801†	-31.7	-1.2	-0.4520 ug/L	-0.4520 ppb	18:15:26
2	U 409.014†	-1918.9	107.6	3.1711 ug/L	3.1711 ppb	18:15:06
2	V 292.402†	-1360.7	49.1	0.3744 ug/L	0.3744 ppb	18:15:06
2	Zn 213.857†	756.5	119.3	1.4521 ug/L	1.4521 ppb	18:15:26
2	SiO2†	8554.4	7646.4	620.79 ug/L	620.79 ppb	18:16:02
3	Sc Radial	4825.7	4825.7	106 %		18:14:14
3	Y RADIAL	5192.8	5192.8	105.6 %		18:14:14
3	Al 396.153Radial†	68.0	137.3	135.88 ug/L	135.88 ppb	18:14:34
3	Ca 317.933Radial†	47.9	26.8	50.638 ug/L	50.638 ppb	18:14:34
3	Fe 238.204 Radial†	13.9	6.5	74.681 ug/L	74.681 ppb	18:14:34
3	K 766.490 Radial†	2924.5	248.1	47.137 ug/L	47.137 ppb	18:14:14
3	Mg 279.077 IEC†	4.0	3.3	138.23 ug/L	138.23 ppb	18:14:34
3	Na 589.592 Radial†	-336.5	400.4	139.79 ug/L	139.79 ppb	18:14:14
3	Sr 421.552†	107.2	63.6	0.4982 ug/L	0.4982 ppb	18:14:14
3	Sc 361.383	883162.9	883162.9	104.48 %		18:15:31
3	Y 371.029	742551.4	742551.4	104.15 %		18:15:31
3	Ag 328.068†	181.2	16.7	0.1067 ug/L	0.1067 ppb	18:15:31
3	As 188.979†	-32.7	-9.3	-5.1735 ug/L	-5.1735 ppb	18:15:51
3	B 249.677†	-391.4	72.8	2.0457 ug/L	2.0457 ppb	18:15:51
3	Ba 233.527†	169.2	150.0	1.4294 ug/L	1.4294 ppb	18:15:51
3	Be 313.107†	-4480.0	169.4	0.0782 ug/L	0.0782 ppb	18:15:31
3	Cd 226.502†	-176.8	-20.8	-0.3112 ug/L	-0.3112 ppb	18:15:51
3	Co 228.616†	-45.1	10.4	0.2662 ug/L	0.2662 ppb	18:15:51
3	Cr 267.716†	108.0	33.2	0.4575 ug/L	0.4575 ppb	18:15:51
3	Cu 324.752†	5724.8	-46.6	-0.1537 ug/L	-0.1537 ppb	18:15:31
3	Mn 257.610†	2314.2	1828.7	2.4335 ug/L	2.4335 ppb	18:15:51
3	Mo 202.031†	4.7	-8.4	-0.7487 ug/L	-0.7487 ppb	18:15:51
3	Ni 231.604†	109.5	32.2	1.0400 ug/L	1.0400 ppb	18:15:51
3	P 214.914†	194.0	-15.0	-11.344 ug/L	-11.344 ppb	18:15:51
3	Pb 220.353†	-59.2	-7.7	-1.1879 ug/L	-1.1879 ppb	18:15:51
3	S 181.975 Axial†	42.9	11.2	20.235 ug/L	20.235 ppb	18:15:51
3	Sb 206.836†	28.2	1.6	0.6226 ug/L	0.6226 ppb	18:15:51
3	Se 196.026†	-18.9	4.1	3.6902 ug/L	3.6902 ppb	18:15:51
3	Si 251.611†	8509.2	7625.6	291.23 ug/L	291.23 ppb	18:15:31
3	Sn 189.927†	-2.8	-6.4	-1.4640 ug/L	-1.4640 ppb	18:15:51
3	Ti 334.940†	472.9	1498.2	2.5989 ug/L	2.5989 ppb	18:15:31
3	Tl 190.801†	-20.6	9.4	3.7262 ug/L	3.7262 ppb	18:15:51
3	U 409.014†	-1827.7	193.8	5.7246 ug/L	5.7246 ppb	18:15:31
3	V 292.402†	-1322.1	85.3	0.6725 ug/L	0.6725 ppb	18:15:31
3	Zn 213.857†	746.3	110.0	1.3385 ug/L	1.3385 ppb	18:15:51
3	SiO2†	8418.2	7521.0	610.62 ug/L	610.62 ppb	18:16:07

Mean Data: 1202054536|958066|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	881584.2	104.29 %	0.380			0.36%
Sc Radial	4801.1	105 %	0.7			0.66%
Y 371.029	740448.8	103.86 %	0.421			0.41%
Y RADIAL	5144.7	104.6 %	1.09			1.04%
Ag 328.068†	38.7	0.2255 ug/L	0.12692	0.2255 ppb	0.12692	56.29%
Al 396.153Radial†	137.4	135.92 ug/L	4.157	135.92 ppb	4.157	3.06%
As 188.979†	-0.7	-0.3530 ug/L	4.27387	-0.3530 ppb	4.27387	>999.9%
B 249.677†	57.3	1.6047 ug/L	0.75556	1.6047 ppb	0.75556	47.09%
Ba 233.527†	150.4	1.4343 ug/L	0.02042	1.4343 ppb	0.02042	1.42%
Be 313.107†	168.5	0.0777 ug/L	0.00907	0.0777 ppb	0.00907	11.67%
Ca 317.933Radial†	29.8	56.276 ug/L	4.8966	56.276 ppb	4.8966	8.70%
Cd 226.502†	-21.4	-0.3217 ug/L	0.02468	-0.3217 ppb	0.02468	7.67%
Co 228.616†	0.7	0.0113 ug/L	0.22154	0.0113 ppb	0.22154	>999.9%
Cr 267.716†	45.1	0.6219 ug/L	0.15260	0.6219 ppb	0.15260	24.54%
Cu 324.752†	-34.5	-0.1115 ug/L	0.04684	-0.1115 ppb	0.04684	42.00%
Fe 238.204 Radial†	7.6	87.558 ug/L	12.8377	87.558 ppb	12.8377	14.66%
K 766.490 Radial†	305.5	58.048 ug/L	9.6604	58.048 ppb	9.6604	16.64%

Mg 279.077 IEC†	0.8	32.111 ug/L	108.8904	32.111 ppb	108.8904	339.11%
Mn 257.610†	1846.3	2.4625 ug/L	0.03566	2.4625 ppb	0.03566	1.45%
Mo 202.031†	-2.7	-0.2348 ug/L	0.61519	-0.2348 ppb	0.61519	262.04%
Na 589.592 Radial†	410.6	143.37 ug/L	7.357	143.37 ppb	7.357	5.13%
Ni 231.604†	24.8	0.7998 ug/L	0.23122	0.7998 ppb	0.23122	28.91%
P 214.914†	-12.5	-9.4626 ug/L	6.36743	-9.4626 ppb	6.36743	67.29%
Pb 220.353†	0.6	0.1120 ug/L	1.13115	0.1120 ppb	1.13115	>999.9%
S 181.975 Axial†	11.8	21.445 ug/L	1.9976	21.445 ppb	1.9976	9.31%
Sb 206.836†	1.8	0.7464 ug/L	2.32001	0.7464 ppb	2.32001	310.84%
Se 196.026†	7.3	6.3800 ug/L	3.97315	6.3800 ppb	3.97315	62.27%
Si 251.611†	7605.3	290.45 ug/L	2.475	290.45 ppb	2.475	0.85%
Sn 189.927†	-1.3	-0.3021 ug/L	1.15468	-0.3021 ppb	1.15468	382.28%
Sr 421.552†	45.9	0.3595 ug/L	0.15522	0.3595 ppb	0.15522	43.17%
Ti 334.940†	1455.3	2.5347 ug/L	0.07794	2.5347 ppb	0.07794	3.07%
Tl 190.801†	4.8	1.9189 ug/L	2.14532	1.9189 ppb	2.14532	111.80%
U 409.014†	117.9	3.4763 ug/L	2.11227	3.4763 ppb	2.11227	60.76%
V 292.402†	81.1	0.6379 ug/L	0.24795	0.6379 ppb	0.24795	38.87%
Zn 213.857†	115.1	1.4010 ug/L	0.05764	1.4010 ppb	0.05764	4.11%
SiO2†	7596.6	616.74 ug/L	5.396	616.74 ppb	5.396	0.87%

Sequence No.: 8

Sample ID: 1202054537|958066|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 3/22/2010 18:18:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202054537|958066|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4783.7	4783.7	105 %		18:20:10
1	Y RADIAL	5108.2	5108.2	103.9 %		18:20:10
1	Al 396.153Radial†	5455.7	5264.7	5184.7 ug/L	5184.7 ppb	18:20:10
1	Ca 317.933Radial†	2834.4	2678.8	5054.9 ug/L	5054.9 ppb	18:20:30
1	Fe 238.204 Radial†	466.9	437.7	5039.0 ug/L	5039.0 ppb	18:20:30
1	K 766.490 Radial†	31889.8	27835.0	5291.8 ug/L	5291.8 ppb	18:20:10
1	Mg 279.077 IEC†	133.1	126.3	5242.1 ug/L	5242.1 ppb	18:20:30
1	Na 589.592 Radial†	14467.2	14484.3	5057.4 ug/L	5057.4 ppb	18:20:10
1	Sr 421.552†	66296.3	63048.2	493.94 ug/L	493.94 ppb	18:20:10
1	Sc 361.383	898355.6	898355.6	106.28 %		18:21:27
1	Y 371.029	744948.9	744948.9	104.49 %		18:21:27
1	Ag 328.068†	100951.0	94832.9	491.88 ug/L	491.88 ppb	18:21:32
1	As 188.979†	939.4	906.0	514.83 ug/L	514.83 ppb	18:21:53
1	B 249.677†	18372.5	17735.0	499.06 ug/L	499.06 ppb	18:21:32
1	Ba 233.527†	57789.1	54364.5	518.06 ug/L	518.06 ppb	18:21:32
1	Be 313.107†	1255877.0	1186172.0	507.52 ug/L	507.52 ppb	18:21:27
1	Cd 226.502†	36263.6	34270.6	503.40 ug/L	503.40 ppb	18:21:32
1	Co 228.616†	20435.5	19282.4	507.72 ug/L	507.72 ppb	18:21:32
1	Cr 267.716†	39294.6	36904.0	502.81 ug/L	502.81 ppb	18:21:32
1	Cu 324.752†	168972.5	153468.3	508.40 ug/L	508.40 ppb	18:21:32
1	Mn 257.610†	403872.2	379636.3	505.11 ug/L	505.11 ppb	18:21:27
1	Mo 202.031†	5861.4	5502.4	495.60 ug/L	495.60 ppb	18:21:53
1	Ni 231.604†	16961.1	15886.8	512.99 ug/L	512.99 ppb	18:21:32
1	P 214.914†	1005.9	745.8	466.31 ug/L	466.31 ppb	18:21:53
1	Pb 220.353†	3373.1	3222.8	505.60 ug/L	505.60 ppb	18:21:53
1	S 181.975 Axial†	3007.3	2799.9	5072.3 ug/L	5072.3 ppb	18:21:53
1	Sb 206.836†	1324.8	1221.1	538.28 ug/L	538.28 ppb	18:21:53
1	Se 196.026†	599.8	586.6	506.23 ug/L	506.23 ppb	18:21:53
1	Si 251.611†	148661.1	139363.5	5316.2 ug/L	5316.2 ppb	18:21:32
1	Sn 189.927†	2343.5	2201.4	507.94 ug/L	507.94 ppb	18:21:53
1	Ti 334.940†	303021.5	286173.0	497.63 ug/L	497.63 ppb	18:21:32
1	Tl 190.801†	1305.6	1257.6	499.67 ug/L	499.67 ppb	18:21:53
1	U 409.014†	17083.1	18017.5	531.40 ug/L	531.40 ppb	18:21:32
1	V 292.402†	65752.4	63220.3	513.08 ug/L	513.08 ppb	18:21:32
1	Zn 213.857†	43856.5	40662.4	496.43 ug/L	496.43 ppb	18:21:32
1	SiO2†	149020.4	139684.0	11327 ug/L	11327 ppb	18:23:00
2	Sc Radial	4668.8	4668.8	103 %		18:20:35
2	Y RADIAL	5008.3	5008.3	101.9 %		18:20:35
2	Al 396.153Radial†	5329.9	5269.7	5189.9 ug/L	5189.9 ppb	18:20:35
2	Ca 317.933Radial†	2829.9	2740.8	5171.8 ug/L	5171.8 ppb	18:20:55
2	Fe 238.204 Radial†	462.1	443.9	5110.3 ug/L	5110.3 ppb	18:20:55
2	K 766.490 Radial†	31294.5	28001.3	5323.4 ug/L	5323.4 ppb	18:20:35
2	Mg 279.077 IEC†	132.9	129.2	5364.3 ug/L	5364.3 ppb	18:20:55
2	Na 589.592 Radial†	13896.9	14267.1	4981.6 ug/L	4981.6 ppb	18:20:35
2	Sr 421.552†	64690.2	63034.7	493.83 ug/L	493.83 ppb	18:20:35
2	Sc 361.383	898835.2	898835.2	106.33 %		18:21:58
2	Y 371.029	744696.8	744696.8	104.45 %		18:21:58
2	Ag 328.068†	99424.1	93346.3	484.21 ug/L	484.21 ppb	18:22:04
2	As 188.979†	925.2	892.1	506.99 ug/L	506.99 ppb	18:22:24
2	B 249.677†	18066.1	17437.6	490.67 ug/L	490.67 ppb	18:22:04
2	Ba 233.527†	56938.6	53535.7	510.16 ug/L	510.16 ppb	18:22:04
2	Be 313.107†	1254445.2	1184194.9	506.65 ug/L	506.65 ppb	18:21:58
2	Cd 226.502†	35702.0	33724.3	495.36 ug/L	495.36 ppb	18:22:04
2	Co 228.616†	20119.0	18974.4	499.61 ug/L	499.61 ppb	18:22:04
2	Cr 267.716†	38727.1	36350.6	495.28 ug/L	495.28 ppb	18:22:04
2	Cu 324.752†	165495.9	150113.9	497.30 ug/L	497.30 ppb	18:22:04
2	Mn 257.610†	404258.4	379796.8	505.32 ug/L	505.32 ppb	18:21:58
2	Mo 202.031†	5818.7	5459.3	491.73 ug/L	491.73 ppb	18:22:24
2	Ni 231.604†	16768.0	15696.8	506.85 ug/L	506.85 ppb	18:22:04

2	P 214.914†	1014.3	753.3	474.03 ug/L	474.03 ppb	18:22:24
2	Pb 220.353†	3366.7	3215.1	504.38 ug/L	504.38 ppb	18:22:24
2	S 181.975 Axial†	3000.3	2791.7	5057.5 ug/L	5057.5 ppb	18:22:24
2	Sb 206.836†	1332.1	1227.3	540.70 ug/L	540.70 ppb	18:22:24
2	Se 196.026†	600.2	586.6	506.46 ug/L	506.46 ppb	18:22:24
2	Si 251.611†	146017.6	136802.8	5218.5 ug/L	5218.5 ppb	18:22:04
2	Sn 189.927†	2307.0	2165.9	499.79 ug/L	499.79 ppb	18:22:24
2	Ti 334.940†	297919.7	281222.9	489.03 ug/L	489.03 ppb	18:22:04
2	Tl 190.801†	1305.4	1256.8	499.32 ug/L	499.32 ppb	18:22:24
2	U 409.014†	16868.7	17807.3	525.19 ug/L	525.19 ppb	18:22:04
2	V 292.402†	64769.5	62262.9	505.34 ug/L	505.34 ppb	18:22:04
2	Zn 213.857†	43165.3	39990.3	488.19 ug/L	488.19 ppb	18:22:04
2	SiO2†	148454.8	139077.3	11278 ug/L	11278 ppb	18:23:05
3	Sc Radial	4727.4	4727.4	104 %		18:21:00
3	Y RADIAL	5078.3	5078.3	103.3 %		18:21:00
3	Al 396.153Radial†	5380.8	5254.3	5174.6 ug/L	5174.6 ppb	18:21:00
3	Ca 317.933Radial†	2821.5	2698.5	5092.0 ug/L	5092.0 ppb	18:21:20
3	Fe 238.204 Radial†	461.4	437.6	5038.1 ug/L	5038.1 ppb	18:21:20
3	K 766.490 Radial†	31351.0	27677.2	5261.8 ug/L	5261.8 ppb	18:21:00
3	Mg 279.077 IEC†	133.6	128.3	5326.0 ug/L	5326.0 ppb	18:21:20
3	Na 589.592 Radial†	14081.6	14276.8	4985.0 ug/L	4985.0 ppb	18:21:00
3	Sr 421.552†	65565.9	63095.5	494.31 ug/L	494.31 ppb	18:21:00
3	Sc 361.383	899878.1	899878.1	106.46 %		18:22:29
3	Y 371.029	746471.1	746471.1	104.70 %		18:22:29
3	Ag 328.068†	101359.9	95056.3	493.03 ug/L	493.03 ppb	18:22:35
3	As 188.979†	934.2	899.6	511.26 ug/L	511.26 ppb	18:22:55
3	B 249.677†	18456.0	17784.2	500.46 ug/L	500.46 ppb	18:22:35
3	Ba 233.527†	57756.0	54241.5	516.89 ug/L	516.89 ppb	18:22:35
3	Be 313.107†	1257526.7	1185722.3	507.33 ug/L	507.33 ppb	18:22:29
3	Cd 226.502†	36224.8	34176.5	502.02 ug/L	502.02 ppb	18:22:35
3	Co 228.616†	20389.7	19206.8	505.72 ug/L	505.72 ppb	18:22:35
3	Cr 267.716†	39324.6	36869.6	502.34 ug/L	502.34 ppb	18:22:35
3	Cu 324.752†	169391.4	153592.8	508.82 ug/L	508.82 ppb	18:22:35
3	Mn 257.610†	403948.7	379065.2	504.34 ug/L	504.34 ppb	18:22:29
3	Mo 202.031†	5839.3	5472.3	492.89 ug/L	492.89 ppb	18:22:55
3	Ni 231.604†	17004.2	15900.4	513.43 ug/L	513.43 ppb	18:22:35
3	P 214.914†	1002.7	741.2	462.66 ug/L	462.66 ppb	18:22:55
3	Pb 220.353†	3334.9	3181.5	499.13 ug/L	499.13 ppb	18:22:55
3	S 181.975 Axial†	2989.4	2778.2	5033.1 ug/L	5033.1 ppb	18:22:55
3	Sb 206.836†	1321.4	1215.8	535.91 ug/L	535.91 ppb	18:22:55
3	Se 196.026†	605.3	590.8	509.71 ug/L	509.71 ppb	18:22:55
3	Si 251.611†	148808.2	139265.1	5312.5 ug/L	5312.5 ppb	18:22:35
3	Sn 189.927†	2326.0	2181.2	503.30 ug/L	503.30 ppb	18:22:55
3	Ti 334.940†	303515.2	286154.3	497.60 ug/L	497.60 ppb	18:22:35
3	Tl 190.801†	1303.3	1253.4	498.01 ug/L	498.01 ppb	18:22:55
3	U 409.014†	17112.7	18018.1	531.42 ug/L	531.42 ppb	18:22:35
3	V 292.402†	65854.2	63211.3	512.97 ug/L	512.97 ppb	18:22:35
3	Zn 213.857†	43824.8	40562.8	495.20 ug/L	495.20 ppb	18:22:35
3	SiO2†	149467.4	139866.8	11342 ug/L	11342 ppb	18:23:10

Mean Data: 1202054537|958066|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	899023.0	106.35 %	0.092			0.09%
Sc Radial	4726.6	104 %	1.3			1.22%
Y 371.029	745372.2	104.55 %	0.135			0.13%
Y RADIAL	5064.9	103.0 %	1.04			1.01%
Ag 328.068†	94411.9	489.71 ug/L	4.794	489.71 ppb	4.794	0.98%
Al 396.153Radial†	5262.9	5183.1 ug/L	7.78	5183.1 ppb	7.78	0.15%
As 188.979†	899.3	511.03 ug/L	3.929	511.03 ppb	3.929	0.77%
B 249.677†	17652.3	496.73 ug/L	5.295	496.73 ppb	5.295	1.07%
Ba 233.527†	54047.2	515.03 ug/L	4.260	515.03 ppb	4.260	0.83%
Be 313.107†	1185363.0	507.17 ug/L	0.453	507.17 ppb	0.453	0.09%
Ca 317.933Radial†	2706.0	5106.2 ug/L	59.74	5106.2 ppb	59.74	1.17%
Cd 226.502†	34057.1	500.26 ug/L	4.298	500.26 ppb	4.298	0.86%
Co 228.616†	19154.5	504.35 ug/L	4.220	504.35 ppb	4.220	0.84%
Cr 267.716†	36708.1	500.14 ug/L	4.216	500.14 ppb	4.216	0.84%
Cu 324.752†	152391.7	504.84 ug/L	6.534	504.84 ppb	6.534	1.29%
Fe 238.204 Radial†	439.7	5062.4 ug/L	41.46	5062.4 ppb	41.46	0.82%
K 766.490 Radial†	27837.8	5292.3 ug/L	30.83	5292.3 ppb	30.83	0.58%

Mg 279.077 IEC†	127.9	5310.8 ug/L	62.51	5310.8 ppb	62.51	1.18%
Mn 257.610†	379499.4	504.92 ug/L	0.514	504.92 ppb	0.514	0.10%
Mo 202.031†	5478.0	493.41 ug/L	1.987	493.41 ppb	1.987	0.40%
Na 589.592 Radial†	14342.7	5008.0 ug/L	42.84	5008.0 ppb	42.84	0.86%
Ni 231.604†	15828.0	511.09 ug/L	3.676	511.09 ppb	3.676	0.72%
P 214.914†	746.8	467.67 ug/L	5.803	467.67 ppb	5.803	1.24%
Pb 220.353†	3206.5	503.04 ug/L	3.436	503.04 ppb	3.436	0.68%
S 181.975 Axial†	2789.9	5054.3 ug/L	19.81	5054.3 ppb	19.81	0.39%
Sb 206.836†	1221.4	538.29 ug/L	2.397	538.29 ppb	2.397	0.45%
Se 196.026†	588.0	507.47 ug/L	1.947	507.47 ppb	1.947	0.38%
Si 251.611†	138477.1	5282.4 ug/L	55.39	5282.4 ppb	55.39	1.05%
Sn 189.927†	2182.8	503.68 ug/L	4.086	503.68 ppb	4.086	0.81%
Sr 421.552†	63059.5	494.02 ug/L	0.250	494.02 ppb	0.250	0.05%
Ti 334.940†	284516.7	494.75 ug/L	4.955	494.75 ppb	4.955	1.00%
Tl 190.801†	1255.9	499.00 ug/L	0.876	499.00 ppb	0.876	0.18%
U 409.014†	17947.6	529.33 ug/L	3.591	529.33 ppb	3.591	0.68%
V 292.402†	62898.1	510.46 ug/L	4.433	510.46 ppb	4.433	0.87%
Zn 213.857†	40405.2	493.27 ug/L	4.445	493.27 ppb	4.445	0.90%
SiO2†	139542.7	11315 ug/L	33.5	11315 ppb	33.5	0.30%

Sequence No.: 9
 Sample ID: 1202054538|958066|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 45
 Date Collected: 3/22/2010 18:25:21
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202054538|958066|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4803.4	4803.4	106 %		18:27:14
1	Y RADIAL	5143.0	5143.0	104.6 %		18:27:14
1	Al 396.153Radial†	-45.5	30.1	29.738 ug/L	29.738 ppb	18:27:34
1	Ca 317.933Radial†	27.3	7.5	14.237 ug/L	14.237 ppb	18:27:34
1	Fe 238.204 Radial†	9.0	1.9	21.344 ug/L	21.344 ppb	18:27:34
1	K 766.490 Radial†	2616.5	-30.9	-5.8975 ug/L	-5.8975 ppb	18:27:14
1	Mg 279.077 IEC†	3.4	2.8	117.26 ug/L	117.26 ppb	18:27:34
1	Na 589.592 Radial†	-643.6	107.9	37.674 ug/L	37.674 ppb	18:27:14
1	Sr 421.552†	40.6	1.0	0.0076 ug/L	0.0076 ppb	18:27:14
1	Sc 361.383	894729.9	894729.9	105.85 %		18:28:31
1	Y 371.029	750090.4	750090.4	105.21 %		18:28:31
1	Ag 328.068†	151.3	-13.8	-0.0681 ug/L	-0.0681 ppb	18:28:36
1	As 188.979†	-25.9	-2.4	-1.3565 ug/L	-1.3565 ppb	18:28:56
1	B 249.677†	-315.6	149.2	4.2136 ug/L	4.2136 ppb	18:28:56
1	Ba 233.527†	52.9	38.0	0.3619 ug/L	0.3619 ppb	18:28:56
1	Be 313.107†	-4418.3	283.1	0.1223 ug/L	0.1223 ppb	18:28:36
1	Cd 226.502†	-173.4	-15.3	-0.2264 ug/L	-0.2264 ppb	18:28:56
1	Co 228.616†	-38.2	17.5	0.4604 ug/L	0.4604 ppb	18:28:56
1	Cr 267.716†	83.1	8.3	0.1137 ug/L	0.1137 ppb	18:28:56
1	Cu 324.752†	5545.5	-286.8	-0.9515 ug/L	-0.9515 ppb	18:28:36
1	Mn 257.610†	812.0	380.9	0.5038 ug/L	0.5038 ppb	18:28:56
1	Mo 202.031†	15.1	1.3	0.1201 ug/L	0.1201 ppb	18:28:56
1	Ni 231.604†	76.2	-0.7	-0.0216 ug/L	-0.0216 ppb	18:28:56
1	P 214.914†	186.4	-24.5	-18.395 ug/L	-18.395 ppb	18:28:56
1	Pb 220.353†	-51.4	0.3	0.0525 ug/L	0.0525 ppb	18:28:56
1	S 181.975 Axial†	31.3	-0.4	-0.6548 ug/L	-0.6548 ppb	18:28:56
1	Sb 206.836†	25.4	-1.5	-0.6131 ug/L	-0.6131 ppb	18:28:56
1	Se 196.026†	-17.4	5.7	4.8359 ug/L	4.8359 ppb	18:28:56
1	Si 251.611†	2215.6	1574.4	60.125 ug/L	60.125 ppb	18:28:56
1	Sn 189.927†	11.4	7.0	1.6257 ug/L	1.6257 ppb	18:28:56
1	Ti 334.940†	-710.6	374.2	0.6413 ug/L	0.6413 ppb	18:28:36
1	Tl 190.801†	-26.7	3.8	1.5197 ug/L	1.5197 ppb	18:28:56
1	U 409.014†	-1903.4	144.9	4.2859 ug/L	4.2859 ppb	18:28:31
1	V 292.402†	-1430.4	-0.7	0.0029 ug/L	0.0029 ppb	18:28:36
1	Zn 213.857†	628.6	-10.4	-0.1305 ug/L	-0.1305 ppb	18:28:56
1	SiO2†	2278.5	1616.3	131.22 ug/L	131.22 ppb	18:30:02
2	Sc Radial	4793.4	4793.4	105 %		18:27:39
2	Y RADIAL	5158.9	5158.9	104.9 %		18:27:39
2	Al 396.153Radial†	-51.7	24.1	23.851 ug/L	23.851 ppb	18:27:59
2	Ca 317.933Radial†	31.8	11.9	22.411 ug/L	22.411 ppb	18:27:59
2	Fe 238.204 Radial†	8.4	1.3	15.051 ug/L	15.051 ppb	18:27:59
2	K 766.490 Radial†	2751.9	102.9	19.564 ug/L	19.564 ppb	18:27:39
2	Mg 279.077 IEC†	0.5	0.0	1.6709 ug/L	1.6709 ppb	18:27:59
2	Na 589.592 Radial†	-689.4	63.1	22.020 ug/L	22.020 ppb	18:27:39
2	Sr 421.552†	23.0	-15.6	-0.1223 ug/L	-0.1223 ppb	18:27:39
2	Sc 361.383	893501.6	893501.6	105.70 %		18:29:01
2	Y 371.029	749320.9	749320.9	105.10 %		18:29:01
2	Ag 328.068†	141.8	-22.5	-0.1104 ug/L	-0.1104 ppb	18:29:06
2	As 188.979†	-25.9	-2.4	-1.3413 ug/L	-1.3413 ppb	18:29:26
2	B 249.677†	-319.9	144.8	4.0885 ug/L	4.0885 ppb	18:29:26
2	Ba 233.527†	43.1	28.8	0.2761 ug/L	0.2761 ppb	18:29:26
2	Be 313.107†	-4438.4	258.4	0.1118 ug/L	0.1118 ppb	18:29:06
2	Cd 226.502†	-188.4	-29.8	-0.4388 ug/L	-0.4388 ppb	18:29:26
2	Co 228.616†	-41.0	14.8	0.3878 ug/L	0.3878 ppb	18:29:26
2	Cr 267.716†	69.3	-4.6	-0.0612 ug/L	-0.0612 ppb	18:29:26
2	Cu 324.752†	5682.8	-149.8	-0.4971 ug/L	-0.4971 ppb	18:29:06
2	Mn 257.610†	799.9	370.5	0.4941 ug/L	0.4941 ppb	18:29:26
2	Mo 202.031†	9.5	-3.9	-0.3521 ug/L	-0.3521 ppb	18:29:26
2	Ni 231.604†	76.8	0.0	0.0008 ug/L	0.0008 ppb	18:29:26

2	P 214.914†	199.2	-12.2	-9.1493 ug/L	-9.1493 ppb	18:29:26
2	Pb 220.353†	-52.4	-0.7	-0.1076 ug/L	-0.1076 ppb	18:29:26
2	S 181.975 Axial†	33.3	1.6	2.9705 ug/L	2.9705 ppb	18:29:26
2	Sb 206.836†	34.0	6.7	2.8295 ug/L	2.8295 ppb	18:29:26
2	Se 196.026†	-21.5	1.8	1.5542 ug/L	1.5542 ppb	18:29:26
2	Si 251.611†	2210.8	1572.7	60.066 ug/L	60.066 ppb	18:29:26
2	Sn 189.927†	2.3	-1.6	-0.3574 ug/L	-0.3574 ppb	18:29:26
2	Ti 334.940†	-705.2	378.4	0.6597 ug/L	0.6597 ppb	18:29:06
2	Tl 190.801†	-24.8	5.7	2.2382 ug/L	2.2382 ppb	18:29:26
2	U 409.014†	-1944.6	103.4	3.0589 ug/L	3.0589 ppb	18:29:01
2	V 292.402†	-1300.0	120.8	0.9658 ug/L	0.9658 ppb	18:29:06
2	Zn 213.857†	624.4	-13.6	-0.1690 ug/L	-0.1690 ppb	18:29:26
2	SiO2†	2236.4	1579.4	128.23 ug/L	128.23 ppb	18:30:07
3	Sc Radial	4930.6	4930.6	108 %		18:28:04
3	Y RADIAL	5303.8	5303.8	107.9 %		18:28:04
3	Al 396.153Radial†	-43.2	33.3	32.914 ug/L	32.914 ppb	18:28:24
3	Ca 317.933Radial†	30.9	10.2	19.209 ug/L	19.209 ppb	18:28:24
3	Fe 238.204 Radial†	7.3	0.1	1.6219 ug/L	1.6219 ppb	18:28:24
3	K 766.490 Radial†	2585.8	-123.2	-23.477 ug/L	-23.477 ppb	18:28:04
3	Mg 279.077 IEC†	3.0	2.4	98.103 ug/L	98.103 ppb	18:28:24
3	Na 589.592 Radial†	-601.2	162.7	56.818 ug/L	56.818 ppb	18:28:04
3	Sr 421.552†	11.5	-26.8	-0.2105 ug/L	-0.2105 ppb	18:28:04
3	Sc 361.383	902439.5	902439.5	106.76 %		18:29:31
3	Y 371.029	757274.9	757274.9	106.22 %		18:29:31
3	Ag 328.068†	187.9	19.3	0.0989 ug/L	0.0989 ppb	18:29:36
3	As 188.979†	-25.2	-1.5	-0.8562 ug/L	-0.8562 ppb	18:29:57
3	B 249.677†	-326.3	141.8	4.0075 ug/L	4.0075 ppb	18:29:57
3	Ba 233.527†	48.7	33.7	0.3228 ug/L	0.3228 ppb	18:29:57
3	Be 313.107†	-4339.7	392.4	0.1694 ug/L	0.1694 ppb	18:29:36
3	Cd 226.502†	-162.6	-3.9	-0.0557 ug/L	-0.0557 ppb	18:29:57
3	Co 228.616†	-40.5	15.7	0.4117 ug/L	0.4117 ppb	18:29:57
3	Cr 267.716†	75.7	0.7	0.0087 ug/L	0.0087 ppb	18:29:57
3	Cu 324.752†	5682.5	-203.2	-0.6771 ug/L	-0.6771 ppb	18:29:36
3	Mn 257.610†	813.1	375.3	0.4952 ug/L	0.4952 ppb	18:29:57
3	Mo 202.031†	12.6	-1.1	-0.1009 ug/L	-0.1009 ppb	18:29:57
3	Ni 231.604†	69.3	-7.7	-0.2476 ug/L	-0.2476 ppb	18:29:57
3	P 214.914†	194.7	-18.3	-13.711 ug/L	-13.711 ppb	18:29:57
3	Pb 220.353†	-62.8	-9.9	-1.5441 ug/L	-1.5441 ppb	18:29:57
3	S 181.975 Axial†	38.0	5.6	10.230 ug/L	10.230 ppb	18:29:57
3	Sb 206.836†	32.4	4.9	2.0926 ug/L	2.0926 ppb	18:29:57
3	Se 196.026†	-21.2	2.3	1.9275 ug/L	1.9275 ppb	18:29:57
3	Si 251.611†	2184.5	1527.4	58.331 ug/L	58.331 ppb	18:29:57
3	Sn 189.927†	3.6	-0.4	-0.0813 ug/L	-0.0813 ppb	18:29:57
3	Ti 334.940†	-608.9	475.2	0.8181 ug/L	0.8181 ppb	18:29:36
3	Tl 190.801†	-20.9	9.5	3.7737 ug/L	3.7737 ppb	18:29:57
3	U 409.014†	-1817.7	240.5	7.1160 ug/L	7.1160 ppb	18:29:31
3	V 292.402†	-1273.5	157.8	1.2771 ug/L	1.2771 ppb	18:29:36
3	Zn 213.857†	626.2	-17.8	-0.2167 ug/L	-0.2167 ppb	18:29:57
3	SiO2†	2235.2	1557.4	126.44 ug/L	126.44 ppb	18:30:12

Mean Data: 1202054538|958066|5

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
Sc 361.383	896890.4	106.10	%	0.573				0.54%
Sc Radial	4842.5	106	%	1.7				1.58%
Y 371.029	752228.7	105.51	%	0.615				0.58%
Y RADIAL	5201.9	105.8	%	1.80				1.70%
Ag 328.068†	-5.7	-0.0265	ug/L	0.11069	-0.0265	ppb	0.11069	417.22%
Al 396.153Radial†	29.1	28.835	ug/L	4.5984	28.835	ppb	4.5984	15.95%
As 188.979†	-2.1	-1.1847	ug/L	0.28455	-1.1847	ppb	0.28455	24.02%
B 249.677†	145.3	4.1032	ug/L	0.10387	4.1032	ppb	0.10387	2.53%
Ba 233.527†	33.5	0.3202	ug/L	0.04296	0.3202	ppb	0.04296	13.41%
Be 313.107†	311.3	0.1345	ug/L	0.03067	0.1345	ppb	0.03067	22.80%
Ca 317.933Radial†	9.9	18.619	ug/L	4.1189	18.619	ppb	4.1189	22.12%
Cd 226.502†	-16.3	-0.2403	ug/L	0.19193	-0.2403	ppb	0.19193	79.86%
Co 228.616†	16.0	0.4200	ug/L	0.03698	0.4200	ppb	0.03698	8.81%
Cr 267.716†	1.5	0.0204	ug/L	0.08801	0.0204	ppb	0.08801	431.07%
Cu 324.752†	-213.3	-0.7086	ug/L	0.22880	-0.7086	ppb	0.22880	32.29%
Fe 238.204 Radial†	1.1	12.672	ug/L	10.0740	12.672	ppb	10.0740	79.50%
K 766.490 Radial†	-17.1	-3.2699	ug/L	21.64046	-3.2699	ppb	21.64046	661.81%

Mg 279.077 IEC†	1.7	72.343 ug/L	61.9487	72.343 ppb	61.9487	85.63%
Mn 257.610†	375.6	0.4977 ug/L	0.00529	0.4977 ppb	0.00529	1.06%
Mo 202.031†	-1.2	-0.1110 ug/L	0.23623	-0.1110 ppb	0.23623	212.90%
Na 589.592 Radial†	111.2	38.837 ug/L	17.4282	38.837 ppb	17.4282	44.88%
Ni 231.604†	-2.8	-0.0895 ug/L	0.13745	-0.0895 ppb	0.13745	153.64%
P 214.914†	-18.3	-13.752 ug/L	4.6230	-13.752 ppb	4.6230	33.62%
Pb 220.353†	-3.4	-0.5331 ug/L	0.87924	-0.5331 ppb	0.87924	164.94%
S 181.975 Axial†	2.3	4.1819 ug/L	5.54251	4.1819 ppb	5.54251	132.54%
Sb 206.836†	3.4	1.4363 ug/L	1.81268	1.4363 ppb	1.81268	126.20%
Se 196.026†	3.3	2.7725 ug/L	1.79667	2.7725 ppb	1.79667	64.80%
Si 251.611†	1558.1	59.507 ug/L	1.0189	59.507 ppb	1.0189	1.71%
Sn 189.927†	1.7	0.3956 ug/L	1.07413	0.3956 ppb	1.07413	271.49%
Sr 421.552†	-13.8	-0.1084 ug/L	0.10971	-0.1084 ppb	0.10971	101.22%
Ti 334.940†	409.2	0.7063 ug/L	0.09720	0.7063 ppb	0.09720	13.76%
Tl 190.801†	6.3	2.5106 ug/L	1.15141	2.5106 ppb	1.15141	45.86%
U 409.014†	163.0	4.8203 ug/L	2.08066	4.8203 ppb	2.08066	43.16%
V 292.402†	92.7	0.7486 ug/L	0.66431	0.7486 ppb	0.66431	88.74%
Zn 213.857†	-13.9	-0.1720 ug/L	0.04318	-0.1720 ppb	0.04318	25.10%
SiO2†	1584.3	128.63 ug/L	2.413	128.63 ppb	2.413	1.88%

Sequence No.: 11
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/22/2010 18:39:56
 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	4696.9	4696.9	103 %		18:41:48
1	Y RADIAL	5024.3	5024.3	102.2 %		18:41:48
1	Al 396.153Radial†	5082.2	4998.6	4921.4 ug/L	4921.4 ppb	18:41:48
1	Ca 317.933Radial†	2800.5	2695.7	5086.8 ug/L	5086.8 ppb	18:42:08
1	Fe 238.204 Radial†	470.0	448.8	5167.1 ug/L	5167.1 ppb	18:42:08
1	K 766.490 Radial†	30654.8	27198.7	5168.7 ug/L	5168.7 ppb	18:41:48
1	Mg 279.077 IEC†	133.1	128.6	5337.1 ug/L	5337.1 ppb	18:42:08
1	Na 589.592 Radial†	29248.1	29063.7	10148 ug/L	10148 ppb	18:41:48
1	Sr 421.552†	65692.3	63628.5	498.48 ug/L	498.48 ppb	18:41:48
1	Sc 361.383	881325.9	881325.9	104.26 %		18:43:05
1	Y 371.029	731232.7	731232.7	102.56 %		18:43:05
1	Ag 328.068†	101752.2	97436.8	505.36 ug/L	505.36 ppb	18:43:11
1	As 188.979†	913.3	898.1	510.39 ug/L	510.39 ppb	18:43:31
1	B 249.677†	18268.7	17969.5	505.64 ug/L	505.64 ppb	18:43:11
1	Ba 233.527†	55833.1	53539.2	510.22 ug/L	510.22 ppb	18:43:11
1	Be 313.107†	1235608.0	1189565.4	508.96 ug/L	508.96 ppb	18:43:05
1	Cd 226.502†	36157.5	34828.2	511.58 ug/L	511.58 ppb	18:43:11
1	Co 228.616†	20482.5	19698.9	518.68 ug/L	518.68 ppb	18:43:11
1	Cr 267.716†	39064.0	37397.3	509.54 ug/L	509.54 ppb	18:43:11
1	Cu 324.752†	165288.5	153007.0	506.89 ug/L	506.89 ppb	18:43:11
1	Mn 257.610†	396412.0	379824.2	505.36 ug/L	505.36 ppb	18:43:05
1	Mo 202.031†	5765.8	5517.3	496.95 ug/L	496.95 ppb	18:43:31
1	Ni 231.604†	16790.1	16031.3	517.65 ug/L	517.65 ppb	18:43:11
1	P 214.914†	3669.8	3319.1	2416.7 ug/L	2416.7 ppb	18:43:31
1	Pb 220.353†	3315.1	3228.5	506.41 ug/L	506.41 ppb	18:43:31
1	S 181.975 Axial†	613.2	558.3	1010.6 ug/L	1010.6 ppb	18:43:31
1	Sb 206.836†	1247.3	1170.9	516.78 ug/L	516.78 ppb	18:43:31
1	Se 196.026†	603.7	601.2	518.67 ug/L	518.67 ppb	18:43:31
1	Si 251.611†	70798.9	67386.5	2567.4 ug/L	2567.4 ppb	18:43:11
1	Sn 189.927†	2256.2	2160.3	498.48 ug/L	498.48 ppb	18:43:31
1	Ti 334.940†	295630.0	284593.0	494.88 ug/L	494.88 ppb	18:43:11
1	Tl 190.801†	1291.4	1267.7	503.59 ug/L	503.59 ppb	18:43:31
1	U 409.014†	16165.5	17448.0	514.52 ug/L	514.52 ppb	18:43:11
1	V 292.402†	64873.1	63572.4	515.87 ug/L	515.87 ppb	18:43:11
1	Zn 213.857†	43869.6	41472.3	506.36 ug/L	506.36 ppb	18:43:11
1	SiO2†	70382.0	66969.1	5423.4 ug/L	5423.4 ppb	18:44:38
2	Sc Radial	4611.8	4611.8	101 %		18:42:13
2	Y RADIAL	4927.3	4927.3	100.2 %		18:42:13
2	Al 396.153Radial†	5015.0	5023.2	4945.5 ug/L	4945.5 ppb	18:42:13
2	Ca 317.933Radial†	2796.6	2742.0	5174.0 ug/L	5174.0 ppb	18:42:33
2	Fe 238.204 Radial†	470.3	457.5	5267.0 ug/L	5267.0 ppb	18:42:33
2	K 766.490 Radial†	30370.7	27466.5	5219.6 ug/L	5219.6 ppb	18:42:13
2	Mg 279.077 IEC†	127.5	125.4	5207.6 ug/L	5207.6 ppb	18:42:33
2	Na 589.592 Radial†	28879.4	29222.8	10204 ug/L	10204 ppb	18:42:13
2	Sr 421.552†	64679.0	63803.0	499.85 ug/L	499.85 ppb	18:42:13
2	Sc 361.383	876395.7	876395.7	103.68 %		18:43:36
2	Y 371.029	726801.3	726801.3	101.94 %		18:43:36
2	Ag 328.068†	100774.8	97043.1	503.35 ug/L	503.35 ppb	18:43:42
2	As 188.979†	919.6	909.0	516.54 ug/L	516.54 ppb	18:44:02
2	B 249.677†	18135.3	17939.3	504.78 ug/L	504.78 ppb	18:43:42
2	Ba 233.527†	55344.9	53369.6	508.60 ug/L	508.60 ppb	18:43:42
2	Be 313.107†	1228903.2	1189765.4	509.04 ug/L	509.04 ppb	18:43:36
2	Cd 226.502†	35798.1	34676.6	509.34 ug/L	509.34 ppb	18:43:42
2	Co 228.616†	20277.3	19611.6	516.40 ug/L	516.40 ppb	18:43:42
2	Cr 267.716†	38712.4	37268.9	507.80 ug/L	507.80 ppb	18:43:42
2	Cu 324.752†	163495.4	152169.4	504.12 ug/L	504.12 ppb	18:43:42
2	Mn 257.610†	394644.5	380258.2	505.96 ug/L	505.96 ppb	18:43:36
2	Mo 202.031†	5779.5	5561.6	500.95 ug/L	500.95 ppb	18:44:02
2	Ni 231.604†	16612.0	15950.0	515.02 ug/L	515.02 ppb	18:43:42

2	P 214.914†	3670.4	3339.5	2432.7 ug/L	2432.7 ppb	18:44:02
2	Pb 220.353†	3331.7	3262.4	511.73 ug/L	511.73 ppb	18:44:02
2	S 181.975 Axial†	604.1	552.8	1000.7 ug/L	1000.7 ppb	18:44:02
2	Sb 206.836†	1264.1	1193.9	526.67 ug/L	526.67 ppb	18:44:02
2	Se 196.026†	610.3	610.8	526.99 ug/L	526.99 ppb	18:44:02
2	Si 251.611†	70079.4	67074.5	2555.4 ug/L	2555.4 ppb	18:43:42
2	Sn 189.927†	2249.9	2166.4	499.88 ug/L	499.88 ppb	18:44:02
2	Ti 334.940†	292735.3	283396.1	492.83 ug/L	492.83 ppb	18:43:42
2	Tl 190.801†	1308.4	1291.1	512.80 ug/L	512.80 ppb	18:44:02
2	U 409.014†	16106.8	17478.5	515.41 ug/L	515.41 ppb	18:43:42
2	V 292.402†	64150.6	63225.5	513.13 ug/L	513.13 ppb	18:43:42
2	Zn 213.857†	43561.3	41411.7	505.62 ug/L	505.62 ppb	18:43:42
2	SiO2†	70270.6	67241.5	5445.4 ug/L	5445.4 ppb	18:44:43
3	Sc Radial	4668.8	4668.8	103 %		18:42:38
3	Y RADIAL	4981.1	4981.1	101.3 %		18:42:38
3	Al 396.153Radial†	5035.0	4982.3	4905.3 ug/L	4905.3 ppb	18:42:38
3	Ca 317.933Radial†	2783.3	2695.3	5086.1 ug/L	5086.1 ppb	18:42:58
3	Fe 238.204 Radial†	466.8	448.5	5162.9 ug/L	5162.9 ppb	18:42:58
3	K 766.490 Radial†	30380.4	27110.0	5151.8 ug/L	5151.8 ppb	18:42:38
3	Mg 279.077 IEC†	131.1	127.4	5290.6 ug/L	5290.6 ppb	18:42:58
3	Na 589.592 Radial†	28968.5	28961.7	10112 ug/L	10112 ppb	18:42:38
3	Sr 421.552†	65026.2	63362.2	496.40 ug/L	496.40 ppb	18:42:38
3	Sc 361.383	877361.8	877361.8	103.79 %		18:44:07
3	Y 371.029	727990.1	727990.1	102.11 %		18:44:07
3	Ag 328.068†	101151.1	97298.7	504.64 ug/L	504.64 ppb	18:44:13
3	As 188.979†	911.5	900.3	511.62 ug/L	511.62 ppb	18:44:33
3	B 249.677†	18120.9	17906.3	503.85 ug/L	503.85 ppb	18:44:13
3	Ba 233.527†	55585.0	53542.1	510.24 ug/L	510.24 ppb	18:44:13
3	Be 313.107†	1231149.9	1190624.8	509.41 ug/L	509.41 ppb	18:44:07
3	Cd 226.502†	35970.8	34805.0	511.24 ug/L	511.24 ppb	18:44:13
3	Co 228.616†	20418.8	19726.3	519.40 ug/L	519.40 ppb	18:44:13
3	Cr 267.716†	38855.3	37365.5	509.10 ug/L	509.10 ppb	18:44:13
3	Cu 324.752†	163917.6	152402.6	504.89 ug/L	504.89 ppb	18:44:13
3	Mn 257.610†	395988.5	381134.0	507.11 ug/L	507.11 ppb	18:44:07
3	Mo 202.031†	5731.0	5508.7	496.18 ug/L	496.18 ppb	18:44:33
3	Ni 231.604†	16648.7	15967.8	515.59 ug/L	515.59 ppb	18:44:13
3	P 214.914†	3636.1	3302.6	2404.6 ug/L	2404.6 ppb	18:44:33
3	Pb 220.353†	3293.3	3221.9	505.38 ug/L	505.38 ppb	18:44:33
3	S 181.975 Axial†	613.8	561.5	1016.5 ug/L	1016.5 ppb	18:44:33
3	Sb 206.836†	1251.9	1180.8	521.03 ug/L	521.03 ppb	18:44:33
3	Se 196.026†	604.6	604.7	521.59 ug/L	521.59 ppb	18:44:33
3	Si 251.611†	70379.6	67289.3	2563.7 ug/L	2563.7 ppb	18:44:13
3	Sn 189.927†	2261.8	2175.4	501.96 ug/L	501.96 ppb	18:44:33
3	Ti 334.940†	293494.9	283817.0	493.54 ug/L	493.54 ppb	18:44:13
3	Tl 190.801†	1297.6	1279.2	508.13 ug/L	508.13 ppb	18:44:33
3	U 409.014†	16155.5	17508.4	516.30 ug/L	516.30 ppb	18:44:13
3	V 292.402†	64246.9	63250.2	513.28 ug/L	513.28 ppb	18:44:13
3	Zn 213.857†	43669.6	41469.8	506.35 ug/L	506.35 ppb	18:44:13
3	SiO2†	70093.9	66996.5	5425.7 ug/L	5425.7 ppb	18:44:48

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	878361.1	103.91 %	0.309			0.30%
Sc Radial	4659.1	102 %	1.0			0.93%
Y 371.029	728674.7	102.21 %	0.322			0.31%
Y RADIAL	4977.6	101.2 %	0.99			0.98%
Ag 328.068†	97259.6	504.45 ug/L	1.019	504.45 ppb	1.019	0.20%
QC value within limits for Ag 328.068 Recovery = 100.89%						
Al 396.153Radial†	5001.3	4924.1 ug/L	20.25	4924.1 ppb	20.25	0.41%
QC value within limits for Al 396.153Radial Recovery = 98.48%						
As 188.979†	902.5	512.85 ug/L	3.258	512.85 ppb	3.258	0.64%
QC value within limits for As 188.979 Recovery = 102.57%						
B 249.677†	17938.4	504.76 ug/L	0.894	504.76 ppb	0.894	0.18%
QC value within limits for B 249.677 Recovery = 100.95%						
Ba 233.527†	53483.6	509.69 ug/L	0.939	509.69 ppb	0.939	0.18%
QC value within limits for Ba 233.527 Recovery = 101.94%						
Be 313.107†	1189985.2	509.14 ug/L	0.239	509.14 ppb	0.239	0.05%
QC value within limits for Be 313.107 Recovery = 101.83%						
Ca 317.933Radial†	2711.0	5115.6 ug/L	50.58	5115.6 ppb	50.58	0.99%

QC value within limits for Ca 317.933 Radial Recovery = 102.31%							
Cd 226.502†	34769.9	510.72 ug/L	1.206	510.72 ppb	1.206	0.24%	
QC value within limits for Cd 226.502 Recovery = 102.14%							
Co 228.616†	19679.0	518.16 ug/L	1.571	518.16 ppb	1.571	0.30%	
QC value within limits for Co 228.616 Recovery = 103.63%							
Cr 267.716†	37343.9	508.81 ug/L	0.904	508.81 ppb	0.904	0.18%	
QC value within limits for Cr 267.716 Recovery = 101.76%							
Cu 324.752†	152526.3	505.30 ug/L	1.430	505.30 ppb	1.430	0.28%	
QC value within limits for Cu 324.752 Recovery = 101.06%							
Fe 238.204 Radial†	451.6	5199.0 ug/L	58.93	5199.0 ppb	58.93	1.13%	
QC value within limits for Fe 238.204 Radial Recovery = 103.98%							
K 766.490 Radial†	27258.4	5180.1 ug/L	35.28	5180.1 ppb	35.28	0.68%	
QC value within limits for K 766.490 Radial Recovery = 103.60%							
Mg 279.077 IEC†	127.1	5278.5 ug/L	65.60	5278.5 ppb	65.60	1.24%	
QC value within limits for Mg 279.077 IEC Recovery = 105.57%							
Mn 257.610†	380405.5	506.14 ug/L	0.886	506.14 ppb	0.886	0.18%	
QC value within limits for Mn 257.610 Recovery = 101.23%							
Mo 202.031†	5529.2	498.02 ug/L	2.560	498.02 ppb	2.560	0.51%	
QC value within limits for Mo 202.031 Recovery = 99.60%							
Na 589.592 Radial†	29082.7	10155 ug/L	46.0	10155 ppb	46.0	0.45%	
QC value within limits for Na 589.592 Radial Recovery = 101.55%							
Ni 231.604†	15983.0	516.09 ug/L	1.380	516.09 ppb	1.380	0.27%	
QC value within limits for Ni 231.604 Recovery = 103.22%							
P 214.914†	3320.4	2418.0 ug/L	14.07	2418.0 ppb	14.07	0.58%	
QC value within limits for P 214.914 Recovery = 96.72%							
Pb 220.353†	3237.6	507.84 ug/L	3.407	507.84 ppb	3.407	0.67%	
QC value within limits for Pb 220.353 Recovery = 101.57%							
S 181.975 Axial†	557.5	1009.3 ug/L	7.99	1009.3 ppb	7.99	0.79%	
QC value within limits for S 181.975 Axial Recovery = 100.93%							
Sb 206.836†	1181.8	521.49 ug/L	4.964	521.49 ppb	4.964	0.95%	
QC value within limits for Sb 206.836 Recovery = 104.30%							
Se 196.026†	605.6	522.41 ug/L	4.219	522.41 ppb	4.219	0.81%	
QC value within limits for Se 196.026 Recovery = 104.48%							
Si 251.611†	67250.1	2562.2 ug/L	6.13	2562.2 ppb	6.13	0.24%	
QC value within limits for Si 251.611 Recovery = 102.49%							
Sn 189.927†	2167.4	500.11 ug/L	1.751	500.11 ppb	1.751	0.35%	
QC value within limits for Sn 189.927 Recovery = 100.02%							
Sr 421.552†	63597.9	498.24 ug/L	1.739	498.24 ppb	1.739	0.35%	
QC value within limits for Sr 421.552 Recovery = 99.65%							
Ti 334.940†	283935.4	493.75 ug/L	1.046	493.75 ppb	1.046	0.21%	
QC value within limits for Ti 334.940 Recovery = 98.75%							
Tl 190.801†	1279.3	508.17 ug/L	4.605	508.17 ppb	4.605	0.91%	
QC value within limits for Tl 190.801 Recovery = 101.63%							
U 409.014†	17478.3	515.41 ug/L	0.894	515.41 ppb	0.894	0.17%	
QC value within limits for U 409.014 Recovery = 103.08%							
V 292.402†	63349.4	514.09 ug/L	1.538	514.09 ppb	1.538	0.30%	
QC value within limits for V 292.402 Recovery = 102.82%							
Zn 213.857†	41451.2	506.11 ug/L	0.424	506.11 ppb	0.424	0.08%	
QC value within limits for Zn 213.857 Recovery = 101.22%							
SiO2†	67069.0	5431.5 ug/L	12.11	5431.5 ppb	12.11	0.22%	
QC value within limits for SiO2 Recovery = 101.57%							
All analyte(s) passed QC.							

Sequence No.: 12
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/22/2010 18:46:58
 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	4709.5	4709.5	103 %		18:48:51
1	Y RADIAL	5062.5	5062.5	103.0 %		18:48:51
1	Al 396.153Radial†	-74.8	0.8	0.8131 ug/L	0.8131 ppb	18:49:11
1	Ca 317.933Radial†	31.9	12.5	23.583 ug/L	23.583 ppb	18:49:11
1	Fe 238.204 Radial†	6.0	-0.8	-9.6889 ug/L	-9.6889 ppb	18:49:11
1	K 766.490 Radial†	2715.2	113.9	21.663 ug/L	21.663 ppb	18:48:51
1	Mg 279.077 IEC†	1.3	0.8	34.828 ug/L	34.828 ppb	18:49:11
1	Na 589.592 Radial†	-695.1	45.9	16.033 ug/L	16.033 ppb	18:48:51
1	Sr 421.552†	9.5	-28.3	-0.2219 ug/L	-0.2219 ppb	18:48:51
1	Sc 361.383	868193.5	868193.5	102.71 %		18:50:08
1	Y 371.029	743488.4	743488.4	104.28 %		18:50:08
1	Ag 328.068†	162.9	2.0	0.0099 ug/L	0.0099 ppb	18:50:08
1	As 188.979†	-28.9	-6.1	-3.4115 ug/L	-3.4115 ppb	18:50:28
1	B 249.677†	-269.1	185.5	5.2433 ug/L	5.2433 ppb	18:50:28
1	Ba 233.527†	10.9	-1.3	-0.0110 ug/L	-0.0110 ppb	18:50:28
1	Be 313.107†	-4420.1	153.8	0.0659 ug/L	0.0659 ppb	18:50:08
1	Cd 226.502†	-160.3	-7.6	-0.1100 ug/L	-0.1100 ppb	18:50:28
1	Co 228.616†	-40.5	14.1	0.3724 ug/L	0.3724 ppb	18:50:28
1	Cr 267.716†	67.1	-4.8	-0.0658 ug/L	-0.0658 ppb	18:50:28
1	Cu 324.752†	5688.9	12.9	0.0422 ug/L	0.0422 ppb	18:50:08
1	Mn 257.610†	443.3	45.4	0.0579 ug/L	0.0579 ppb	18:50:28
1	Mo 202.031†	15.0	1.7	0.1535 ug/L	0.1535 ppb	18:50:28
1	Ni 231.604†	74.4	-0.2	-0.0070 ug/L	-0.0070 ppb	18:50:28
1	P 214.914†	205.6	-0.5	-0.3788 ug/L	-0.3788 ppb	18:50:28
1	Pb 220.353†	-60.5	-10.0	-1.5622 ug/L	-1.5622 ppb	18:50:28
1	S 181.975 Axial†	33.5	2.8	4.9861 ug/L	4.9861 ppb	18:50:28
1	Sb 206.836†	33.7	7.3	3.1563 ug/L	3.1563 ppb	18:50:28
1	Se 196.026†	-26.1	-3.2	-2.6980 ug/L	-2.6980 ppb	18:50:28
1	Si 251.611†	584.5	50.3	1.9194 ug/L	1.9194 ppb	18:50:28
1	Sn 189.927†	10.7	6.7	1.5400 ug/L	1.5400 ppb	18:50:28
1	Ti 334.940†	-1018.2	54.2	0.0946 ug/L	0.0946 ppb	18:50:08
1	Tl 190.801†	-26.3	3.5	1.3879 ug/L	1.3879 ppb	18:50:28
1	U 409.014†	-1987.5	8.1	0.2397 ug/L	0.2397 ppb	18:50:08
1	V 292.402†	-1281.9	102.6	0.8264 ug/L	0.8264 ppb	18:50:08
1	Zn 213.857†	800.9	175.5	2.1640 ug/L	2.1640 ppb	18:50:28
1	SiO2†	595.6	43.6	3.5319 ug/L	3.5319 ppb	18:51:39
2	Sc Radial	4681.6	4681.6	103 %		18:49:16
2	Y RADIAL	5032.1	5032.1	102.3 %		18:49:16
2	Al 396.153Radial†	-76.3	-1.1	-1.0332 ug/L	-1.0332 ppb	18:49:36
2	Ca 317.933Radial†	24.8	5.7	10.842 ug/L	10.842 ppb	18:49:36
2	Fe 238.204 Radial†	6.1	-0.7	-7.9403 ug/L	-7.9403 ppb	18:49:36
2	K 766.490 Radial†	2674.2	89.7	17.059 ug/L	17.059 ppb	18:49:16
2	Mg 279.077 IEC†	2.6	2.1	86.846 ug/L	86.846 ppb	18:49:36
2	Na 589.592 Radial†	-708.4	28.9	10.099 ug/L	10.099 ppb	18:49:16
2	Sr 421.552†	11.7	-26.1	-0.2044 ug/L	-0.2044 ppb	18:49:16
2	Sc 361.383	865597.0	865597.0	102.40 %		18:50:33
2	Y 371.029	738775.4	738775.4	103.62 %		18:50:33
2	Ag 328.068†	159.0	-1.4	-0.0121 ug/L	-0.0121 ppb	18:50:33
2	As 188.979†	-19.0	3.5	1.9988 ug/L	1.9988 ppb	18:50:53
2	B 249.677†	-251.3	202.0	5.7115 ug/L	5.7115 ppb	18:50:53
2	Ba 233.527†	4.0	-8.0	-0.0762 ug/L	-0.0762 ppb	18:50:53
2	Be 313.107†	-4475.4	86.9	0.0371 ug/L	0.0371 ppb	18:50:33
2	Cd 226.502†	-159.6	-7.4	-0.1065 ug/L	-0.1065 ppb	18:50:53
2	Co 228.616†	-45.5	9.2	0.2419 ug/L	0.2419 ppb	18:50:53
2	Cr 267.716†	71.3	-0.6	-0.0101 ug/L	-0.0101 ppb	18:50:53
2	Cu 324.752†	5687.9	28.5	0.0922 ug/L	0.0922 ppb	18:50:33
2	Mn 257.610†	444.6	47.8	0.0593 ug/L	0.0593 ppb	18:50:53
2	Mo 202.031†	8.8	-4.4	-0.3921 ug/L	-0.3921 ppb	18:50:53
2	Ni 231.604†	81.7	7.2	0.2309 ug/L	0.2309 ppb	18:50:53

2	P 214.914†	190.5	-14.6	-11.065 ug/L	-11.065 ppb	18:50:53
2	Pb 220.353†	-47.7	2.3	0.3628 ug/L	0.3628 ppb	18:50:53
2	S 181.975 Axial†	26.9	-3.7	-6.6625 ug/L	-6.6625 ppb	18:50:53
2	Sb 206.836†	36.0	9.7	4.1837 ug/L	4.1837 ppb	18:50:53
2	Se 196.026†	-18.6	4.0	3.3291 ug/L	3.3291 ppb	18:50:53
2	Si 251.611†	580.4	47.9	1.8360 ug/L	1.8360 ppb	18:50:53
2	Sn 189.927†	15.8	11.7	2.7072 ug/L	2.7072 ppb	18:50:53
2	Ti 334.940†	-1078.4	-7.6	-0.0204 ug/L	-0.0204 ppb	18:50:33
2	Tl 190.801†	-26.6	3.1	1.2250 ug/L	1.2250 ppb	18:50:53
2	U 409.014†	-1867.0	119.9	3.5488 ug/L	3.5488 ppb	18:50:33
2	V 292.402†	-1356.7	25.8	0.2104 ug/L	0.2104 ppb	18:50:33
2	Zn 213.857†	798.2	175.2	2.1585 ug/L	2.1585 ppb	18:50:53
2	SiO2†	586.8	36.7	2.9941 ug/L	2.9941 ppb	18:51:59
3	Sc Radial	4780.0	4780.0	105 %		18:49:41
3	Y RADIAL	5171.9	5171.9	105.2 %		18:49:41
3	Al 396.153Radial†	-80.6	-3.6	-3.5439 ug/L	-3.5439 ppb	18:50:01
3	Ca 317.933Radial†	29.2	9.4	17.807 ug/L	17.807 ppb	18:50:01
3	Fe 238.204 Radial†	7.1	0.1	1.5629 ug/L	1.5629 ppb	18:50:01
3	K 766.490 Radial†	2586.1	-47.7	-9.0857 ug/L	-9.0857 ppb	18:49:41
3	Mg 279.077 IEC†	2.9	2.3	96.944 ug/L	96.944 ppb	18:50:01
3	Na 589.592 Radial†	-704.0	47.4	16.539 ug/L	16.539 ppb	18:49:41
3	Sr 421.552†	-9.2	-46.2	-0.3621 ug/L	-0.3621 ppb	18:49:41
3	Sc 361.383	867565.2	867565.2	102.63 %		18:50:58
3	Y 371.029	741412.1	741412.1	103.99 %		18:50:58
3	Ag 328.068†	127.2	-32.7	-0.1676 ug/L	-0.1676 ppb	18:50:58
3	As 188.979†	-17.7	4.8	2.7164 ug/L	2.7164 ppb	18:51:18
3	B 249.677†	-278.8	175.8	4.9671 ug/L	4.9671 ppb	18:51:18
3	Ba 233.527†	-9.8	-21.5	-0.2037 ug/L	-0.2037 ppb	18:51:18
3	Be 313.107†	-4448.8	122.7	0.0525 ug/L	0.0525 ppb	18:50:58
3	Cd 226.502†	-168.5	-15.7	-0.2308 ug/L	-0.2308 ppb	18:51:18
3	Co 228.616†	-37.7	16.9	0.4449 ug/L	0.4449 ppb	18:51:18
3	Cr 267.716†	79.6	7.3	0.1003 ug/L	0.1003 ppb	18:51:18
3	Cu 324.752†	5772.0	97.9	0.3238 ug/L	0.3238 ppb	18:50:58
3	Mn 257.610†	458.0	59.9	0.0759 ug/L	0.0759 ppb	18:51:18
3	Mo 202.031†	20.1	6.7	0.6054 ug/L	0.6054 ppb	18:51:18
3	Ni 231.604†	82.9	8.2	0.2639 ug/L	0.2639 ppb	18:51:18
3	P 214.914†	189.4	-16.1	-12.278 ug/L	-12.278 ppb	18:51:18
3	Pb 220.353†	-68.7	-18.1	-2.8252 ug/L	-2.8252 ppb	18:51:18
3	S 181.975 Axial†	35.6	4.8	8.7091 ug/L	8.7091 ppb	18:51:18
3	Sb 206.836†	26.1	0.0	0.0321 ug/L	0.0321 ppb	18:51:18
3	Se 196.026†	-23.2	-0.5	-0.3853 ug/L	-0.3853 ppb	18:51:18
3	Si 251.611†	584.2	50.4	1.9182 ug/L	1.9182 ppb	18:51:18
3	Sn 189.927†	5.5	1.7	0.3868 ug/L	0.3868 ppb	18:51:18
3	Ti 334.940†	-1037.1	35.1	0.0549 ug/L	0.0549 ppb	18:50:58
3	Tl 190.801†	-25.4	4.3	1.7004 ug/L	1.7004 ppb	18:51:18
3	U 409.014†	-1956.5	36.8	1.0890 ug/L	1.0890 ppb	18:50:58
3	V 292.402†	-1331.5	53.3	0.4392 ug/L	0.4392 ppb	18:50:58
3	Zn 213.857†	798.1	173.3	2.1336 ug/L	2.1336 ppb	18:51:18
3	SiO2†	576.7	25.6	2.0588 ug/L	2.0588 ppb	18:52:19

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867118.6	102.58 %		0.160			0.16%
Sc Radial	4723.7	104 %		1.1			1.07%
Y 371.029	741225.3	103.97 %		0.331			0.32%
Y RADIAL	5088.8	103.5 %		1.49			1.44%
Ag 328.068†	-10.7	-0.0566 ug/L		0.09676	-0.0566 ppb	0.09676	170.84%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-1.3	-1.2547 ug/L		2.18697	-1.2547 ppb	2.18697	174.31%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	0.8	0.4346 ug/L		3.35003	0.4346 ppb	3.35003	770.89%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	187.8	5.3073 ug/L		0.37629	5.3073 ppb	0.37629	7.09%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-10.3	-0.0969 ug/L		0.09798	-0.0969 ppb	0.09798	101.07%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	121.1	0.0518 ug/L		0.01441	0.0518 ppb	0.01441	27.82%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	9.2	17.411 ug/L		6.3796	17.411 ppb	6.3796	36.64%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-10.2	-0.1491 ug/L	0.07080	-0.1491 ppb	0.07080	47.49%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	13.4	0.3531 ug/L	0.10286	0.3531 ppb	0.10286	29.13%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	0.6	0.0081 ug/L	0.08454	0.0081 ppb	0.08454	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	46.5	0.1527 ug/L	0.15024	0.1527 ppb	0.15024	98.38%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.5	-5.3554 ug/L	6.05492	-5.3554 ppb	6.05492	113.06%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	52.0	9.8790 ug/L	16.58448	9.8790 ppb	16.58448	167.88%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.8	72.873 ug/L	33.3322	72.873 ppb	33.3322	45.74%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	51.0	0.0644 ug/L	0.00999	0.0644 ppb	0.00999	15.52%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.4	0.1223 ug/L	0.49952	0.1223 ppb	0.49952	408.49%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	40.7	14.224 ug/L	3.5809	14.224 ppb	3.5809	25.18%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	5.0	0.1626 ug/L	0.14783	0.1626 ppb	0.14783	90.92%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.4	-7.9072 ug/L	6.54791	-7.9072 ppb	6.54791	82.81%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-8.6	-1.3416 ug/L	1.60541	-1.3416 ppb	1.60541	119.67%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.3	2.3442 ug/L	8.01914	2.3442 ppb	8.01914	342.08%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.7	2.4574 ug/L	2.16229	2.4574 ppb	2.16229	87.99%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.1	0.0819 ug/L	3.04059	0.0819 ppb	3.04059	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	49.6	1.8912 ug/L	0.04778	1.8912 ppb	0.04778	2.53%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.7	1.5447 ug/L	1.16025	1.5447 ppb	1.16025	75.11%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-33.5	-0.2628 ug/L	0.08645	-0.2628 ppb	0.08645	32.90%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	27.2	0.0430 ug/L	0.05841	0.0430 ppb	0.05841	135.75%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.6	1.4378 ug/L	0.24158	1.4378 ppb	0.24158	16.80%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	54.9	1.6258 ug/L	1.71860	1.6258 ppb	1.71860	105.71%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	60.6	0.4920 ug/L	0.31134	0.4920 ppb	0.31134	63.28%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	174.7	2.1520 ug/L	0.01617	2.1520 ppb	0.01617	0.75%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	35.3	2.8616 ug/L	0.74542	2.8616 ppb	0.74542	26.05%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, April 21, 2010 15:09:19

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.8306

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	684.8		684.816		22.333	3.3
Mg	24.0	5446.2		5446.238		74.552	1.4
Co	58.9	14308.0		14307.962		178.365	1.2
Rh	102.9	53512.0		53512.045		561.686	1.0
In	114.9	72302.1		72302.119		744.681	1.0
Pb	208.0	71192.6		71192.555		291.091	0.4
[> Ba	137.9	67886.2		67886.152		498.754	0.7
[Ba++	69.0	1019.3		0.015		0.000	2.9
[> Ce	139.9	87835.2		87835.215		773.982	0.9
[CeO	155.9	2501.7		0.028		0.000	1.4
Bkgd	220.0	3.2		3.200		1.204	37.6

Current Optimization File Data

Current Value	Description
1.06	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1975.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.8	950.4
Co	59	13	6.5	21779.6
In	115	13	7.3	124445.3

ICPMS#3 Instrument Tuning Report

File Name: 100421.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	590	2060	0.644
Be	9.0	9.0	2072	2040	0.675
Mg	24.0	24.0	5706	2110	0.654
Mg	25.0	25.0	5881	2020	0.684
Mg	26.0	26.0	6225	2140	0.641
Co	58.9	58.9	14206	2115	0.652
Rh	102.9	102.9	24905	2165	0.661
In	114.9	114.9	27830	2180	0.657
Ce	139.9	140.0	33930	2220	0.621
Pb	206.0	206.0	49991	2280	0.667
Pb	207.0	207.0	50272	2310	0.657
Pb	208.0	208.0	50486	2300	0.652
U	238.1	238.1	57845	2340	0.683

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, April 21, 2010 16:18:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\Blank.348

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	ug/L		3	
[>	Sc	45	ug/L		295852	
[	Mn	55	ug/L		253	
[	Cd	111	ug/L		1	
|	Cd	114	ug/L		9	
[>	In	115	ug/L		129005	
|	Sb	121	ug/L		39	
[	Sb	123	ug/L		34	
[>	Lu	175	ug/L		247247	
|	Tl	205	ug/L		127	
|	Pb	208	ug/L		175	
[U	238	ug/L		24	

Sample ID: Blank

Report Date/Time: Wednesday, April 21, 2010 16:19:58

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Simple Linear	
Mn	55Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	
U	238Simple Linear	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	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 MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, April 21, 2010 16:22:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\Standard 1.349

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	10.000	ug/L	9.673	1643	0.005
|>	Sc 45		ug/L		296355	296355.010
[	Mn 55	10.000	ug/L	3.721	32659	0.110
[	Cd 111	10.000	ug/L	0.952	7619	0.058
|	Cd 114		ug/L		17589	0.135
|>	In 115		ug/L		130538	130537.747
|	Sb 121	10.000	ug/L	0.056	24919	0.191
[	Sb 123		ug/L		19434	0.149
[>	Lu 175		ug/L		248753	248753.428
|	Tl 205	10.000	ug/L	0.811	122606	0.492
|	Pb 208	10.000	ug/L	0.505	153343	0.616
[	U 238	10.000	ug/L	1.659	180729	0.727

Sample ID: Standard 1

Report Date/Time: Wednesday, April 21, 2010 16:23:16

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	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 % Diff	Dup. Rel. % Diff
[	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 MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, April 21, 2010 16:25:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\Standard 2.350

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	99.962	ug/L	10.910	14474	0.053
[>	Sc 45		ug/L		271703	271702.514
[	Mn 55	100.012	ug/L	3.353	301130	1.110
[	Cd 111	99.995	ug/L	0.628	72512	0.581
|	Cd 114		ug/L		168751	1.351
[>	In 115		ug/L		124905	124905.208
|	Sb 121	100.012	ug/L	1.316	240932	1.930
[	Sb 123		ug/L		185422	1.485
[>	Lu 175		ug/L		240552	240551.876
|	Tl 205	100.001	ug/L	1.308	1185340	4.929
|	Pb 208	99.979	ug/L	1.709	1450384	6.032
[	U 238	99.974	ug/L	2.239	1702134	7.082

Sample ID: Standard 2

Report Date/Time: Wednesday, April 21, 2010 16:26:35

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	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 % Diff	Dup. Rel. % Diff
[	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	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, April 21, 2010 16:28:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\mlsc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 1.351

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.251 ug/L	10.015	7938	0.028
|>	Sc	45	ug/L		285058	285058.412
[	Mn	55	51.742 ug/L	2.645	163626	0.574
[	Cd	111	50.623 ug/L	0.945	37914	0.294
|	Cd	114	ug/L		89100	0.691
|>	In	115	ug/L		128998	128997.942
|	Sb	121	49.267 ug/L	0.816	122658	0.951
[	Sb	123	ug/L		94523	0.732
[>	Lu	175	ug/L		245974	245973.862
|	Tl	205	50.434 ug/L	0.574	611549	2.486
|	Pb	208	51.299 ug/L	0.315	761443	3.095
[	U	238	53.597 ug/L	0.824	933769	3.796

Sample ID: QC Std 1

Report Date/Time: Wednesday, April 21, 2010 16:29:54

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	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 % Diff	Dup. Rel. % Diff
[	Be	9	104.502				
|>	Sc	45			96.4		
[	Mn	55	103.485				
[	Cd	111	101.247				
|	Cd	114					
|>	In	115			100.0		
|	Sb	121	98.534				
[	Sb	123					
|>	Lu	175			99.5		
|	Tl	205	100.867				
|	Pb	208	102.598				
[	U	238	107.194				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, April 21, 2010 16:32:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 2.352

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.011	ug/L	90.250	5	0.000
|>	Sc 45		ug/L		298450	298450.309
[	Mn 55	-0.011	ug/L	12.122	219	-0.000
[	Cd 111	0.003	ug/L	106.773	3	0.000
|	Cd 114		ug/L		10	0.000
|>	In 115		ug/L		132358	132357.756
|	Sb 121	0.039	ug/L	7.002	138	0.001
[	Sb 123		ug/L		111	0.001
[>	Lu 175		ug/L		250648	250647.563
|	Tl 205	0.473	ug/L	15.372	5946	0.023
|	Pb 208	0.002	ug/L	26.063	210	0.000
[	U 238	0.003	ug/L	5.593	82	0.000

Sample ID: QC Std 2

Report Date/Time: Wednesday, April 21, 2010 16:33:18

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	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 % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			100.9		
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115			102.6		
|	Sb	121					
[	Sb	123					
[>	Lu	175			101.4		
|	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#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, April 21, 2010 16:35:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 3.353

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.728	ug/L	1.621	116	0.000
[>	Sc 45		ug/L		293993	293992.674
[	Mn 55	5.930	ug/L	3.542	19543	0.066
[	Cd 111	1.232	ug/L	2.325	930	0.007
|	Cd 114		ug/L		2108	0.016
[>	In 115		ug/L		129990	129990.378
|	Sb 121	2.941	ug/L	0.842	7418	0.057
[	Sb 123		ug/L		5710	0.044
[>	Lu 175		ug/L		245879	245878.528
|	Tl 205	1.316	ug/L	2.160	16069	0.065
|	Pb 208	2.388	ug/L	1.183	35582	0.144
[U 238	0.291	ug/L	0.555	5098	0.021

Sample ID: QC Std 3

Report Date/Time: Wednesday, April 21, 2010 16:36:38

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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	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 % Diff	Dup. Rel. % Diff
[	Be	9	145.520				
>	Sc	45			99.4		
[	Mn	55	118.598				
[	Cd	111	123.200				
|	Cd	114					
>	In	115			100.8		
|	Sb	121	98.037				
[	Sb	123					
>	Lu	175			99.4		
|	Tl	205	131.626				
|	Pb	208	119.377				
[	U	238	145.638				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Be	9	9CRDL is out of limits
QC Std 3	Tl	205	205CRDL is out of limits
QC Std 3	U	238	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, April 21, 2010 16:38:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 4.354

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.102	ug/L	0.868	13	0.000
[>	Sc 45		ug/L		194754	194753.853
[	Mn 55	5.867	ug/L	1.766	12843	0.065
[	Cd 111	0.481	ug/L	10.350	260	0.003
|	Cd 114		ug/L		4073	0.044
[>	In 115		ug/L		92793	92793.163
|	Sb 121	0.120	ug/L	14.923	242	0.002
[	Sb 123		ug/L		188	0.002
[>	Lu 175		ug/L		187851	187851.055
|	Tl 205	0.119	ug/L	9.474	1198	0.006
|	Pb 208	0.217	ug/L	2.003	2596	0.013
[	U 238	0.003	ug/L	32.018	53	0.000

Sample ID: QC Std 4

Report Date/Time: Wednesday, April 21, 2010 16:39:58

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	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 % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			65.8		
[	Mn	55	101.159				
[	Cd	111	108.279				
|	Cd	114					
|>	In	115			71.9		
|	Sb	121					
[	Sb	123					
|>	Lu	175			76.0		
|	Tl	205					
|	Pb	208	114.941				
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for QC Sc		45	
In 115 Int Std for QC In		115	
Lu 175 Int Std for QC Lu		175	

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, April 21, 2010 16:42:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 5.355

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	15.187	ug/L	3.049	1567	0.008
Sc	45		ug/L		194552	194551.588
Mn	55	27.071	ug/L	2.334	58568	0.300
Cd	111	20.131	ug/L	1.138	10950	0.117
Cd	114		ug/L		28538	0.305
In	115		ug/L		93708	93708.407
Sb	121	19.461	ug/L	0.909	35208	0.375
Sb	123		ug/L		27098	0.289
Lu	175		ug/L		188363	188362.582
Tl	205	18.911	ug/L	0.374	175689	0.932
Pb	208	19.878	ug/L	1.013	226007	1.199
U	238	21.879	ug/L	0.773	291903	1.550

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 % Diff	Dup. Rel. % Diff
Be	9	75.934				
Sc	45		65.8			
Mn	55	104.926				
Cd	111	98.468				
Cd	114					
In	115		72.6			
Sb	121	97.303				
Sb	123					
Lu	175		76.2			
Tl	205	94.554				
Pb	208	98.458				
U	238	109.394				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 5

Report Date/Time: Wednesday, April 21, 2010 16:43:19

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QC Std 5	Be	9ICSAB is out of limits
Sc 45 Int Std for QC Sc		45
In 115 Int Std for QCIn		115
Lu 175 Int Std for QCLu		175

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 16:45:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.356

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	51.845	ug/L	10.969	8013	0.027
>	Sc 45		ug/L		289903	289902.656
[	Mn 55	51.647	ug/L	2.949	166093	0.573
[	Cd 111	51.320	ug/L	0.554	38743	0.298
|	Cd 114		ug/L		90600	0.697
>	In 115		ug/L		130034	130033.889
|	Sb 121	49.537	ug/L	0.591	124329	0.956
[	Sb 123		ug/L		96000	0.738
>	Lu 175		ug/L		245010	245010.326
|	Tl 205	49.905	ug/L	0.479	602824	2.460
|	Pb 208	50.932	ug/L	0.908	753066	3.073
[	U 238	52.855	ug/L	0.364	917280	3.744

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 % Diff	Dup. Rel. % Diff
[	Be 9	103.689				
>	Sc 45		98.0			
[	Mn 55	103.295				
[	Cd 111	102.639				
|	Cd 114					
>	In 115		100.8			
|	Sb 121	99.073				
[	Sb 123					
>	Lu 175		99.1			
|	Tl 205	99.809				
|	Pb 208	101.865				
[	U 238	105.711				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 6

Report Date/Time: Wednesday, April 21, 2010 16:46:41

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 16:49:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.357

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.005	ug/L	332.359	4	0.000
Sc	45		ug/L		304617	304617.128
Mn	55	-0.017	ug/L	17.055	203	-0.000
Cd	111	0.008	ug/L	59.486	7	0.000
Cd	114		ug/L		20	0.000
In	115		ug/L		132468	132467.576
Sb	121	0.051	ug/L	19.429	168	0.001
Sb	123		ug/L		147	0.001
Lu	175		ug/L		250029	250029.441
Tl	205	0.444	ug/L	13.932	5575	0.022
Pb	208	0.006	ug/L	20.488	272	0.000
U	238	0.005	ug/L	14.651	108	0.000

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 % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		103.0			
Mn	55					
Cd	111					
Cd	114					
In	115		102.7			
Sb	121					
Sb	123					
Lu	175		101.1			
Tl	205					
Pb	208					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Wednesday, April 21, 2010 16:50:04

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054539

Sample Date/Time: Wednesday, April 21, 2010 16:52:24

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 958068|1|dim

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\1202054539.358

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.002	ug/L	389.642	4	0.000
|>	Sc 45		ug/L		291030	291029.964
[	Mn 55	0.287	ug/L	3.218	1172	0.003
[	Cd 111	0.006	ug/L	52.098	5	0.000
|	Cd 114		ug/L		16	0.000
|>	In 115		ug/L		125215	125215.223
|	Sb 121	0.087	ug/L	9.122	248	0.002
[	Sb 123		ug/L		235	0.002
|>	Lu 175		ug/L		238359	238358.821
|	Tl 205	0.137	ug/L	6.286	1734	0.007
|	Pb 208	0.033	ug/L	2.418	649	0.002
[	U 238	0.004	ug/L	12.903	95	0.000

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 % Diff	Dup. Rel. % Diff
[	Be 9					
|>	Sc 45		98.4			
[	Mn 55					
[	Cd 111					
|	Cd 114					
|>	In 115		97.1			
|	Sb 121					
[	Sb 123					
|>	Lu 175		96.4			
|	Tl 205					
|	Pb 208					
[	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202054539

Report Date/Time: Wednesday, April 21, 2010 16:53:25

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054540

Sample Date/Time: Wednesday, April 21, 2010 16:55:45

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\1202054540.359

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.720 ug/L	9.653	8528	0.029
>	Sc	45	ug/L		292459	292458.733
[	Mn	55	46.433 ug/L	2.433	150689	0.515
[	Cd	111	48.044 ug/L	0.584	35063	0.279
|	Cd	114	ug/L		81658	0.650
>	In	115	ug/L		125683	125682.993
|	Sb	121	49.379 ug/L	0.725	119775	0.953
[	Sb	123	ug/L		92466	0.735
>	Lu	175	ug/L		241187	241187.035
|	Tl	205	44.179 ug/L	1.038	525467	2.178
|	Pb	208	46.591 ug/L	0.222	678215	2.811
[	U	238	48.568 ug/L	0.627	829750	3.440

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 % Diff	Dup. Rel. % Diff
[	Be	9				
>	Sc	45		98.9		
[	Mn	55				
[	Cd	111				
|	Cd	114				
>	In	115		97.4		
|	Sb	121				
[	Sb	123				
>	Lu	175		97.5		
|	Tl	205				
|	Pb	208				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202054540

Report Date/Time: Wednesday, April 21, 2010 16:56:46

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247908001

Sample Date/Time: Wednesday, April 21, 2010 16:59:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\247908001.360

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.007	ug/L	91.709	2	-0.000
> Sc	45		ug/L		296921	296921.010
Mn	55	0.278	ug/L	6.994	1165	0.003
Cd	111	0.018	ug/L	20.570	14	0.000
Cd	114		ug/L		24	0.000
> In	115		ug/L		126139	126138.784
Sb	121	0.054	ug/L	9.564	171	0.001
Sb	123		ug/L		126	0.001
> Lu	175		ug/L		239893	239892.745
Tl	205	0.477	ug/L	13.462	5744	0.024
Pb	208	0.040	ug/L	1.251	745	0.002
U	238	0.012	ug/L	1.889	231	0.001

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 % Diff	Dup. Rel. % Diff
Be	9					
> Sc	45		100.4			
Mn	55					
Cd	111					
Cd	114					
> In	115		97.8			
Sb	121					
Sb	123					
> Lu	175		97.0			
Tl	205					
Pb	208					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 247908001

Report Date/Time: Wednesday, April 21, 2010 17:00:07

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247908002

Sample Date/Time: Wednesday, April 21, 2010 17:02:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\247908002.361

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.008	ug/L	17.292	5	0.000
Sc	45		ug/L		295973	295973.437
Mn	55	0.456	ug/L	0.715	1751	0.005
Cd	111	0.018	ug/L	57.917	13	0.000
Cd	114		ug/L		34	0.000
In	115		ug/L		124626	124626.272
Sb	121	0.050	ug/L	10.364	158	0.001
Sb	123		ug/L		126	0.001
Lu	175		ug/L		238271	238270.978
Tl	205	0.194	ug/L	6.150	2395	0.010
Pb	208	0.053	ug/L	4.182	927	0.003
U	238	0.011	ug/L	8.747	203	0.001

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 % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		100.0			
Mn	55					
Cd	111					
Cd	114					
In	115		96.6			
Sb	121					
Sb	123					
Lu	175		96.4			
Tl	205					
Pb	208					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 247908002

Report Date/Time: Wednesday, April 21, 2010 17:03:29

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247908003

Sample Date/Time: Wednesday, April 21, 2010 17:05:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\247908003.362

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.001	ug/L	911.667	3	0.000
> Sc	45		ug/L		293092	293092.433
Mn	55	0.306	ug/L	7.537	1242	0.003
Cd	111	0.010	ug/L	61.242	8	0.000
Cd	114		ug/L		23	0.000
> In	115		ug/L		123338	123337.587
Sb	121	0.044	ug/L	3.777	142	0.001
Sb	123		ug/L		110	0.001
> Lu	175		ug/L		235608	235607.847
Tl	205	0.102	ug/L	2.731	1300	0.005
Pb	208	0.072	ug/L	3.146	1187	0.004
U	238	0.109	ug/L	2.212	1835	0.008

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 % Diff	Dup. Rel. % Diff
Be	9					
> Sc	45		99.1			
Mn	55					
Cd	111					
Cd	114					
> In	115		95.6			
Sb	121					
Sb	123					
> Lu	175		95.3			
Tl	205					
Pb	208					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 247908003

Report Date/Time: Wednesday, April 21, 2010 17:06:51

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054541

Sample Date/Time: Wednesday, April 21, 2010 17:12:36

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\1202054541.364

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.006	ug/L	131.527	4	0.000
> Sc	45		ug/L		297137	297137.028
[Mn	55	2.143	ug/L	2.505	7309	0.024
[Cd	111	0.014	ug/L	29.224	11	0.000
| Cd	114		ug/L		20	0.000
> In	115		ug/L		123991	123990.924
| Sb	121	0.041	ug/L	10.782	134	0.001
[Sb	123		ug/L		119	0.001
> Lu	175		ug/L		236366	236366.460
| Tl	205	0.060	ug/L	7.448	819	0.003
| Pb	208	0.099	ug/L	5.257	1586	0.006
[U	238	0.007	ug/L	8.946	149	0.001

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 % Diff	Dup. Rel. % Diff
[Be	9					
> Sc	45		100.4			
[Mn	55					
[Cd	111					
| Cd	114					
> In	115		96.1			
| Sb	121					
[Sb	123					
> Lu	175		95.6			
| Tl	205					
| Pb	208					
[U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202054541

Report Date/Time: Wednesday, April 21, 2010 17:13:38

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054542

Sample Date/Time: Wednesday, April 21, 2010 17:15:58

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\1202054542.365

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	53.795	ug/L	9.273	8575	0.028
Sc 45		ug/L		299328	299328.058
Mn 55	46.847	ug/L	2.788	155580	0.520
Cd 111	9.605	ug/L	0.421	6979	0.056
Cd 114		ug/L		16010	0.128
In 115		ug/L		125103	125103.057
Sb 121	188.638	ug/L	0.765	455297	3.640
Sb 123		ug/L		350863	2.804
Lu 175		ug/L		240007	240006.975
Tl 205	83.312	ug/L	0.596	985728	4.107
Pb 208	36.831	ug/L	0.989	533354	2.222
U 238	48.278	ug/L	1.578	820337	3.420

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 % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		101.2			
Mn 55					
Cd 111					
Cd 114					
In 115		97.0			
Sb 121					
Sb 123					
Lu 175		97.1			
Tl 205					
Pb 208					
U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202054542

Report Date/Time: Wednesday, April 21, 2010 17:16:59

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054543

Sample Date/Time: Wednesday, April 21, 2010 17:19:19

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 958068|5|dlm

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\1202054543.366

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.008	ug/L	92.064	5	0.000
Sc	45		ug/L		307661	307660.953
Mn	55	0.427	ug/L	1.573	1721	0.005
Cd	111	0.008	ug/L	35.075	7	0.000
Cd	114		ug/L		15	0.000
In	115		ug/L		128797	128797.274
Sb	121	0.070	ug/L	30.068	209	0.001
Sb	123		ug/L		168	0.001
Lu	175		ug/L		242583	242582.889
Tl	205	1.311	ug/L	11.886	15755	0.065
Pb	208	0.030	ug/L	16.465	616	0.002
U	238	0.014	ug/L	43.561	254	0.001

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 % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		104.0			
Mn	55					
Cd	111					
Cd	114					
In	115		99.8			
Sb	121					
Sb	123					
Lu	175		98.1			
Tl	205					
Pb	208					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202054543

Report Date/Time: Wednesday, April 21, 2010 17:20:21

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 17:26:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.368

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	51.439	ug/L	8.889	7861	0.027
> Sc	45		ug/L		286862	286861.889
Mn	55	50.139	ug/L	3.287	159471	0.556
Cd	111	50.760	ug/L	1.031	36984	0.295
Cd	114		ug/L		86369	0.688
> In	115		ug/L		125495	125495.422
Sb	121	48.965	ug/L	0.686	118587	0.945
Sb	123		ug/L		91669	0.730
> Lu	175		ug/L		238568	238568.010
Tl	205	50.048	ug/L	0.309	588646	2.467
Pb	208	51.403	ug/L	0.730	740098	3.101
U	238	53.624	ug/L	0.699	905998	3.798

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
Pb	208	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9		102.878								
> Sc	45				97.0						
Mn	55		100.279								
Cd	111		101.521								
Cd	114										
> In	115				97.3						
Sb	121		97.930								
Sb	123										
> Lu	175				96.5						
Tl	205		100.095								
Pb	208		102.806								
U	238		107.248								

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

Sample ID: QC Std 6

Report Date/Time: Wednesday, April 21, 2010 17:27:04

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 17:29:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.369

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.002	ug/L	424.050	4	0.000
> Sc	45		ug/L		301345	301345.127
Mn	55	-0.013	ug/L	71.381	211	-0.000
Cd	111	-0.001	ug/L	1455.359	0	-0.000
Cd	114		ug/L		11	0.000
> In	115		ug/L		127577	127576.667
Sb	121	0.049	ug/L	6.480	159	0.001
Sb	123		ug/L		129	0.001
> Lu	175		ug/L		242772	242771.644
Tl	205	0.733	ug/L	10.439	8866	0.036
Pb	208	0.001	ug/L	85.196	192	0.000
U	238	0.004	ug/L	8.957	92	0.000

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 % Diff	Dup. Rel. % Diff
Be	9					
> Sc	45		101.9			
Mn	55					
Cd	111					
Cd	114					
> In	115		98.9			
Sb	121					
Sb	123					
> Lu	175		98.2			
Tl	205					
Pb	208					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Wednesday, April 21, 2010 17:30:28

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, April 21, 2010 20:35:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\Blank.427

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be 9		ug/L		4	
[> Sc 45		ug/L		242057	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be 9					
[> Sc 45					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, April 21, 2010 20:37:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\Standard 1.428

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	10.000 ug/L	8.356	1008	0.004
Sc	45	ug/L		242803	242802.835

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, April 21, 2010 20:39:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\Standard 2.429

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.991 ug/L	7.032	9266	0.041
Sc	45	ug/L		226101	226101.271

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, April 21, 2010 20:41:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 1.430

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	51.096 ug/L	7.805	4856	0.021
Sc	45	ug/L		231615	231614.526

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	102.192			
Sc	45		95.7		

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, April 21, 2010 20:43:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 2.431

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.017 ug/L	132.472	2	-0.000
Sc	45	ug/L		244786	244786.457

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45		101.1		

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, April 21, 2010 20:45:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 3.432

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.524 ug/L	11.086	55	0.000
Sc	45	ug/L		236461	236460.609	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	104.897			
Sc	45		97.7			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, April 21, 2010 20:47:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 4.433

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.067	ug/L	25.677	8	0.000
Sc	45		ug/L		182598	182597.930

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				75.4						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for QC Sc		45	

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, April 21, 2010 20:49:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 5.434

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	17.976	ug/L	4.846	1835	0.007
Sc	45		ug/L		248860	248859.896

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	89.882				
Sc	45		102.8			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 20:51:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.435

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	53.017	ug/L	7.895	5230	0.022
Sc	45		ug/L		240422	240421.629

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	106.034				
Sc	45		99.3			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 20:53:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.436

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.000 ug/L	7276.837	4	-0.000
Sc	45	ug/L		247291	247290.518

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	102.2			

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: Wednesday, April 21, 2010 20:54:06

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202054539

Sample Date/Time: Wednesday, April 21, 2010 20:55:56

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202054539.437

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.020 ug/L	88.675	2	-0.000
Sc	45	ug/L		240613	240613.139	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
Sc	45		99.4			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054540

Sample Date/Time: Wednesday, April 21, 2010 20:57:59

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202054540.438

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	53.886	ug/L	8.284	5430	0.022
45		ug/L		245604	245604.353	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45		101.5				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247908001
Sample Date/Time: Wednesday, April 21, 2010 21:00:02
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 958068|1|dlm
Method File: c:\elandata\Method\be only.mth
Dataset File: c:\elandata\Dataset\100419\247908001.439

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	-0.015	ug/L	127.367	3	-0.000
Sc 45		ug/L		250331	250331.204

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		103.4			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247908002

Sample Date/Time: Wednesday, April 21, 2010 21:02:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\247908002.440

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.021 ug/L	44.087	2	-0.000
Sc	45	ug/L		245299	245299.016

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	101.3			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247908003

Sample Date/Time: Wednesday, April 21, 2010 21:04:10

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\247908003.441

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.027 ug/L	62.276	1	-0.000
Sc	45	ug/L		248038	248038.122

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	102.5			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054541

Sample Date/Time: Wednesday, April 21, 2010 21:08:21

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202054541.443

Concentration Results

Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.021	ug/L	41.528	2	-0.000	
Sc	45		ug/L		245917	245916.503	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		101.6			

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#3 - Summary Report

Sample ID: 1202054542

Sample Date/Time: Wednesday, April 21, 2010 21:10:25

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 958068|1|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202054542.444

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	53.793	ug/L	7.665	5601	0.022
Sc	45		ug/L		253815	253815.292

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		104.9			

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202054543

Sample Date/Time: Wednesday, April 21, 2010 21:12:29

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 958068|5|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202054543.445

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.020	ug/L	44.878	6	0.000
[> Sc	45		ug/L		256110	256110.043

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
[> Sc	45		105.8			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 21:16:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.447

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	52.343	ug/L	8.360	5206	0.021
Sc	45		ug/L		242493	242492.813

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	104.685				
Sc	45		100.2			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 21:18:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.448

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.024	ug/L	25.044	2	-0.000
45		ug/L		247486	247486.215	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45		102.2				

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

Method Name: WATER
 Method Description: 7470A, 245.2, ILM04 ANALYST JXL
 Element: Hg

Date: 03/03/2010
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 030310W1.SIF Results Data Set Name: 030310W2

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 03/03/2010
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0026	0.0026	10:20:00	No
2			0.0026	0.0026	10:20:35	No
Mean:			0.0026			
SD :			0.0000			
%RSD:			1.7868			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 03/03/2010
 Sample ID: S0.2

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0024	0.0050	10:21:57	No
2			0.0024	0.0050	10:22:31	No
Mean:			0.0024			
SD :			0.0000			
%RSD:			0.6044			

[Hg] Standard number 1 applied. [0.200]
 Correlation Coefficient: 1.00000 Slope: 0.01200
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 03/03/2010
 Sample ID: S0.5

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0046	0.0073	10:23:54	No
2			0.0046	0.0072	10:24:29	No
Mean:			0.0046			
SD :			0.0000			
%RSD:			0.7802			

[Hg] Standard number 2 applied. [0.500]
 Correlation Coefficient: 0.99056 Slope: 0.00909
 Intercept : 0.00022

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 03/03/2010
 Sample ID: S2.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0172	0.0198	10:25:54	No
2			0.0172	0.0198	10:26:29	No
Mean:			0.0172			
SD :			0.0000			
%RSD:						

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99928
Intercept : 0.00035

Slope: 0.00846

=====

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 03/03/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0427	0.0453	10:27:54	No
2			0.0425	0.0451	10:28:29	No
Mean:			0.0426			
SD :			0.0001			
%RSD:			0.2618			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99990 Slope: 0.00845
Intercept : 0.00036

=====

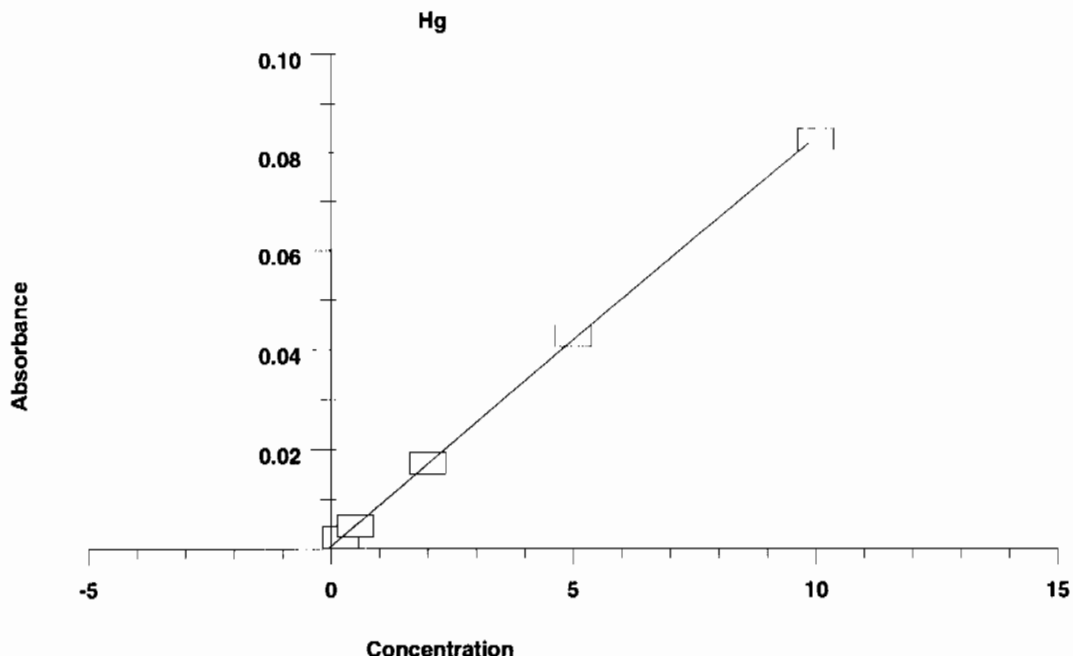
Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 03/03/2010
Sample ID: S10

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0828	0.0854	10:29:56	No
2			0.0826	0.0852	10:30:30	No
Mean:			0.0827			
SD :			0.0002			
%RSD:			0.1991			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99989 Slope: 0.00825
Intercept : 0.00058

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0026	---	----	----	----
S0.2	0.0024	0.200	0.221	0.0000	0.6
S0.5	0.0046	0.500	0.490	0.0000	0.8
S2.0	0.0172	2.000	2.018	0.0000	----
S5.0	0.0426	5.000	5.091	0.0001	0.3
S10	0.0827	10.000	9.951	0.0002	0.2
Correlation Coefficient: 0.99989		Slope:	0.00825	Intercept:	0.0006



=====
 Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 03/03/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	5.070	5.070	0.0424	0.0450	10:31:59	No
2	4.988	4.988	0.0417	0.0443	10:32:34	No
Mean:	5.029	5.029	0.0421			
SD :	0.0585	0.0585	0.0005			
%RSD:	1.2	1.2	1.1480			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 03/03/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	-0.028	-0.028	0.0003	0.0030	10:33:56	No
2	-0.045	-0.045	0.0002	0.0028	10:34:30	No
Mean:	-0.037	-0.037	0.0003			
SD :	0.0123	0.0123	0.0001			
%RSD:	33.4	33.4	36.8006			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 03/03/2010
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	0.161	0.161	0.0019	0.0045	10:35:52	No
2	0.151	0.151	0.0018	0.0044	10:36:26	No
Mean:	0.156	0.156	0.0019			
SD :	0.0070	0.0070	0.0001			
%RSD:	4.5	4.5	3.1073			

QC value within specified limits.

=====

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 03/03/2010

Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.122	5.122	0.0428	0.0455	10:37:51	No
2	5.126	5.126	0.0429	0.0455	10:38:25	No
Mean:	5.124	5.124	0.0429			
SD :	0.0022	0.0022	0.0000			
%RSD:						

QC value within specified limits.

=====

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 03/03/2010

Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.052	0.052	0.0010	0.0036	10:39:53	No
2	0.052	0.052	0.0010	0.0036	10:40:29	No
Mean:	0.052	0.052	0.0010			
SD :	0.0001	0.0001	0.0000			
%RSD:	0.2	0.2	0.1002			

QC value within specified limits.

=====

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 03/03/2010

Sample ID: 1202055838|i||958584|MB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.008	-0.008	0.0005	0.0031	10:41:55	No
2	-0.008	-0.008	0.0005	0.0031	10:42:30	No
Mean:	-0.008	-0.008	0.0005			
SD :	0.0002	0.0002	0.0000			
%RSD:	2.6	2.6	0.3497			

=====

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 03/03/2010

Sample ID: 1202055839|i||LCS

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.091	2.091	0.0178	0.0204	10:43:54	No
2	2.081	2.081	0.0177	0.0204	10:44:29	No
Mean:	2.086	2.086	0.0178			
SD :	0.0067	0.0067	0.0001			
%RSD:	0.3	0.3	0.3123			

=====

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 03/03/2010

Sample ID: 248019001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.016	-0.016	0.0004	0.0031	10:45:55	No
2	-0.023	-0.023	0.0004	0.0030	10:46:30	No
Mean:	-0.020	-0.020	0.0004			
SD :	0.0050	0.0050	0.0000			
%RSD:	25.5	25.5	10.0274			

=====

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 03/03/2010

Sample ID: 1202055840|i|||DUP

%RSD: 4.2 4.2 3.4173

=====
 Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 03/03/2010
 Sample ID: 248024003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.011	0.011	0.0007	0.0033	10:59:45	No
2	-0.001	-0.001	0.0006	0.0032	11:00:20	No
Mean:	0.005	0.005	0.0006			
SD :	0.0088	0.0088	0.0001			
%RSD:	177.4	177.4	11.7519			

=====
 Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 03/03/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.429	5.429	0.0454	0.0480	11:01:45	No
2	5.389	5.389	0.0450	0.0476	11:02:20	No
Mean:	5.409	5.409	0.0452			
SD :	0.0290	0.0290	0.0002			
%RSD:	0.5	0.5	0.5284			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 03/03/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.066	0.066	0.0011	0.0037	11:03:49	No
2	0.056	0.056	0.0010	0.0036	11:04:24	No
Mean:	0.061	0.061	0.0011			
SD :	0.0069	0.0069	0.0001			
%RSD:	11.4	11.4	5.3134			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 03/03/2010
 Sample ID: 248024004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.011	-0.011	0.0005	0.0031	11:05:50	No
2	-0.016	-0.016	0.0004	0.0030	11:06:25	No
Mean:	-0.014	-0.014	0.0005			
SD :	0.0040	0.0040	0.0000			
%RSD:	29.6	29.6	7.1605			

=====
 Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 03/03/2010
 Sample ID: 1202056223|i||958777|MB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.030	0.030	0.0008	0.0034	11:07:49	No
2	0.011	0.011	0.0007	0.0033	11:08:24	No
Mean:	0.021	0.021	0.0007			
SD :	0.0133	0.0133	0.0001			
%RSD:	64.4	64.4	14.7019			

=====
 Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 03/03/2010
 Sample ID: 1202056224|i||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.254	2.254	0.0192	0.0218	11:09:48	No
2	2.233	2.233	0.0190	0.0216	11:10:23	No
Mean:	2.243	2.243	0.0191			
SD :	0.0151	0.0151	0.0001			
%RSD:	0.7	0.7	0.6517			

=====
 Element: Hg Seq. No.: 27 AS Loc.: 25 Date: 03/03/2010
 Sample ID: 247771001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.023	0.023	0.0008	0.0034	11:11:47	No
2	-0.004	-0.004	0.0005	0.0032	11:12:22	No
Mean:	0.010	0.010	0.0007			
SD :	0.0195	0.0195	0.0002			
%RSD:	201.3	201.3	24.4399			

=====
 Element: Hg Seq. No.: 28 AS Loc.: 26 Date: 03/03/2010
 Sample ID: 1202056225|i|||DUP

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.009	-0.009	0.0005	0.0031	11:13:47	No
2	-0.036	-0.036	0.0003	0.0029	11:14:23	No
Mean:	-0.022	-0.022	0.0004			
SD :	0.0187	0.0187	0.0002			
%RSD:	83.6	83.6	39.4014			

=====
 Element: Hg Seq. No.: 29 AS Loc.: 27 Date: 03/03/2010
 Sample ID: 1202056226|i|||MS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.164	2.164	0.0184	0.0210	11:15:49	No
2	2.194	2.194	0.0187	0.0213	11:16:24	No
Mean:	2.179	2.179	0.0186			
SD :	0.0212	0.0212	0.0002			
%RSD:	1.0	1.0	0.9420			

=====
 Element: Hg Seq. No.: 30 AS Loc.: 28 Date: 03/03/2010
 Sample ID: 1202056227|i|5||SDILT

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.062	-0.062	0.0001	0.0027	11:17:50	No
2	-0.082	-0.082	-0.0001	0.0025	11:18:25	No
Mean:	-0.072	-0.072	0.0000			
SD :	0.0141	0.0141	0.0001			
%RSD:	19.5	19.5	703.1558			

=====
 Element: Hg Seq. No.: 31 AS Loc.: 29 Date: 03/03/2010
 Sample ID: 247780001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.095	0.095	0.0014	0.0040	11:19:51	No
2	0.061	0.061	0.0011	0.0037	11:20:26	No
Mean:	0.078	0.078	0.0012			
SD :	0.0240	0.0240	0.0002			

%RSD: 30.6 30.6 16.1709

=====
 Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 03/03/2010
 Sample ID: 247793001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.101	-0.101	-0.0003	0.0024	11:21:52	No
2	-0.098	-0.098	-0.0002	0.0024	11:22:27	No
Mean:	-0.100	-0.100	-0.0002			
SD :	0.0017	0.0017	0.0000			
%RSD:	1.7	1.7	5.6988			

=====
 Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 03/03/2010
 Sample ID: 247807001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.067	-0.067	0.0000	0.0026	11:23:54	No
2	-0.065	-0.065	0.0000	0.0026	11:24:29	No
Mean:	-0.066	-0.066	0.0000			
SD :	0.0016	0.0016	0.0000			
%RSD:	2.5	2.5	41.3786			

=====
 Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 03/03/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.157	5.157	0.0431	0.0457	11:25:56	No
2	5.122	5.122	0.0428	0.0455	11:26:31	No
Mean:	5.140	5.140	0.0430			
SD :	0.0245	0.0245	0.0002			
%RSD:	0.5	0.5	0.4696			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 03/03/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.071	0.071	0.0012	0.0038	11:28:00	No
2	0.060	0.060	0.0011	0.0037	11:28:35	No
Mean:	0.065	0.065	0.0011			
SD :	0.0080	0.0080	0.0001			
%RSD:	12.2	12.2	5.8743			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 03/03/2010
 Sample ID: 247807002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.029	-0.029	0.0003	0.0029	11:29:59	No
2	-0.039	-0.039	0.0003	0.0029	11:30:33	No
Mean:	-0.034	-0.034	0.0003			
SD :	0.0069	0.0069	0.0001			
%RSD:	20.1	20.1	19.1857			

=====
 Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 03/03/2010
 Sample ID: 247807003|i|||

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height     Stored
1      -0.075     -0.075     0.0000    0.0026    11:31:53  No
2      -0.085     -0.085     -0.0001    0.0025    11:32:27  No
Mean:   -0.080     -0.080     -0.0001
SD :    0.0070     0.0070     0.0001
%RSD:    8.7       8.7       68.6251
-----

```

```

=====
Element: Hg      Seq. No.: 38      AS Loc.: 34      Date: 03/03/2010
Sample ID: 247807004|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height     Stored
1      -0.078     -0.078     -0.0001    0.0025    11:33:47  No
2      -0.069     -0.069     0.0000     0.0026    11:34:22  No
Mean:   -0.074     -0.074     0.0000
SD :    0.0060     0.0060     0.0000
%RSD:    8.1       8.1      167.5237
-----

```

```

=====
Element: Hg      Seq. No.: 39      AS Loc.: 35      Date: 03/03/2010
Sample ID: 247812001|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height     Stored
1      -0.102     -0.102     -0.0003    0.0023    11:35:44  No
2      -0.124     -0.124     -0.0004    0.0022    11:36:19  No
Mean:   -0.113     -0.113     -0.0004
SD :    0.0159     0.0159     0.0001
%RSD:   14.1       14.1      36.8760
-----

```

```

=====
Element: Hg      Seq. No.: 40      AS Loc.: 36      Date: 03/03/2010
Sample ID: 247830002|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height     Stored
1      -0.055     -0.055     0.0001     0.0027    11:37:41  No
2      -0.048     -0.048     0.0002     0.0028    11:38:16  No
Mean:   -0.052     -0.052     0.0002
SD :    0.0053     0.0053     0.0000
%RSD:   10.3       10.3      28.9217
-----

```

```

=====
Element: Hg      Seq. No.: 41      AS Loc.: 37      Date: 03/03/2010
Sample ID: 247836001|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height     Stored
1      -0.041     -0.041     0.0002     0.0028    11:39:38  No
2      -0.058     -0.058     0.0001     0.0027    11:40:13  No
Mean:   -0.050     -0.050     0.0002
SD :    0.0119     0.0119     0.0001
%RSD:   23.8       23.8      59.1530
-----

```

```

=====
Element: Hg      Seq. No.: 42      AS Loc.: 38      Date: 03/03/2010
Sample ID: 247908001|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height     Stored
1      -0.060     -0.060     0.0001     0.0027    11:41:35  No
2      -0.060     -0.060     0.0001     0.0027    11:42:10  No
Mean:   -0.060     -0.060     0.0001
SD :    0.0002     0.0002     0.0000
-----

```

%RSD: 0.3 0.3 1.6543

=====
 Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 03/03/2010
 Sample ID: 247908002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.095	-0.095	-0.0002	0.0024	11:43:33	No
2	-0.070	-0.070	0.0000	0.0026	11:44:07	No
Mean:	-0.083	-0.083	-0.0001			
SD :	0.0176	0.0176	0.0001			
%RSD:	21.2	21.2	137.4451			

=====
 Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 03/03/2010
 Sample ID: 247908003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.089	-0.089	-0.0002	0.0024	11:45:31	No
2	-0.068	-0.068	0.0000	0.0026	11:46:06	No
Mean:	-0.079	-0.079	-0.0001			
SD :	0.0150	0.0150	0.0001			
%RSD:	19.1	19.1	172.9993			

=====
 Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 03/03/2010
 Sample ID: 247919001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.051	-0.051	0.0002	0.0028	11:47:30	No
2	-0.054	-0.054	0.0001	0.0027	11:48:04	No
Mean:	-0.052	-0.052	0.0001			
SD :	0.0018	0.0018	0.0000			
%RSD:	3.5	3.5	10.3871			

=====
 Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 03/03/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.179	5.179	0.0433	0.0459	11:49:29	No
2	5.192	5.192	0.0434	0.0460	11:50:04	No
Mean:	5.185	5.185	0.0434			
SD :	0.0088	0.0088	0.0001			
%RSD:	0.2	0.2	0.1669			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 03/03/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.021	0.021	0.0008	0.0034	11:51:33	No
2	0.034	0.034	0.0009	0.0035	11:52:08	No
Mean:	0.027	0.027	0.0008			
SD :	0.0091	0.0091	0.0001			
%RSD:	33.3	33.3	9.3604			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 03/03/2010
 Sample ID: 247919002|i|||

Miscellaneous

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 958065.0
Analyst: Barry Audain
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202054535	Metals Spike Mix I	U1100205-01	.25	mL
LCS	1202054535	Metals Spike Mix II	U1100205-06	.25	mL
MS	1202054537	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202054537	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
1202054534 MB	01-MAR-2010 18:34:00	Water	50	50	1	<2
1202054535 LCS	01-MAR-2010 18:34:00	Water	50	50	1	<2
247908001	01-MAR-2010 18:34:00	Water	50	50	1	<2
247908002	01-MAR-2010 18:34:00	Water	50	50	1	<2
247908003	01-MAR-2010 18:34:00	Water	50	50	1	<2
247919001	01-MAR-2010 18:34:00	Water	50	50	1	<2
1202054536 DUP (247919001)	01-MAR-2010 18:34:00	Water	50	50	1	<2
1202054537 MS (247919001)	01-MAR-2010 18:34:00	Water	50	50	1	<2
1202054538 SDILT (247919001)	01-MAR-2010 18:34:00	Water	50	50	1	<2
247919002	01-MAR-2010 18:34:00	Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1274969	Nitric Acid CONC.	1 mL	
1274973	HYDROCHLORIC ACID	2.5 mL	

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 958067.0
Analyst: Francena Armstrong
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202054540	ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).	U1100205-A	.5	mL
LCS	1202054540	MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).	U1100205-B	.5	mL
MS	1202054542	ICP-MS DOE Liquid Spike Solution A	U1090930-A	.5	mL
MS	1202054542	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
1202054539 MB	02-MAR-2010 14:30:00	Water	50	50	1	<2
1202054540 LCS	02-MAR-2010 14:30:00	Water	50	50	1	<2
247908001	02-MAR-2010 14:30:00	Water	50	50	1	<2
247908002	02-MAR-2010 14:30:00	Water	50	50	1	<2
247908003	02-MAR-2010 14:30:00	Water	50	50	1	<2
247919001	02-MAR-2010 14:30:00	Water	50	50	1	<2
1202054541 DUP (247919001)	02-MAR-2010 14:30:00	Water	50	50	1	<2
1202054542 MS (247919001)	02-MAR-2010 14:30:00	Water	50	50	1	<2
1202054543 SDILT (247919001)	02-MAR-2010 14:30:00	Water	50	50	1	<2
247919002	02-MAR-2010 14:30:00	Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1274969	Nitric Acid CONC.	1 mL	
1274973	HYDROCHLORIC ACID	2.5 mL	

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958775.0
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
1202056223 MB	02-MAR-2010 13:05:00	Water	20	20	1	<2
1202056224 LCS	02-MAR-2010 13:05:00	Water	20	20	1	<2
247771001	02-MAR-2010 13:05:00	Water	20	20	1	<2
1202056225 DUP (247771001)	02-MAR-2010 13:05:00	Water	20	20	1	<2
1202056226 MS (247771001)	02-MAR-2010 13:05:00	Water	20	20	1	<2
1202056227 SDILT (247771001)	02-MAR-2010 13:05:00	Water	20	20	1	<2
247780001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247793001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247807001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247807002	02-MAR-2010 13:05:00	Water	20	20	1	<2
247807003	02-MAR-2010 13:05:00	Water	20	20	1	<2
247807004	02-MAR-2010 13:05:00	Water	20	20	1	<2
247812001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247830002	02-MAR-2010 13:05:00	Water	20	20	1	<2
247836001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247908001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247908002	02-MAR-2010 13:05:00	Water	20	20	1	<2
247908003	02-MAR-2010 13:05:00	Water	20	20	1	<2
247919001	02-MAR-2010 13:05:00	Water	20	20	1	<2
247919002	02-MAR-2010 13:05:00	Water	20	20	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1176183	Sulfuric Acid, Concentrated	1 mL	Digestion Start Date: 02-MAR-10 13:05
1255532-C	Hg reducing agent	1 mL	Digestion End Date: 02-MAR-10 15:05
1274391-1	NITRIC ACID	.5 mL	
1276435-C	5% Potassium Persulfate	1.5 mL	
1277238-C	5% KMnO4 solution	3 mL	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

DATA EXCEPTION REPORT

Mo.Day Yr.
23-MAR-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
ICP

Test / Method:
SW846 3005/6010B

Matrix Type:
Liquid

Client Code:
LANL

Batch ID:
958066

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 247908(10-2013-1),247919(10-2016-1)

Application Issues:

Method Blank contamination

**Specification and Requirements
Exception Description:**

1. Method Blank contamination:

QC 1202054534MB

DER Disposition:

1. The samples in this SDG did not contain the above noted analytes at concentrations higher than the RDL, therefore the data was not adversely affected.

Originator's Name:

Helen Camello 23-MAR-10

Data Validator/Group Leader:

Christopher Louviere 23-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: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 22-APR-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Standard Logbook

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount:** 500 mL
Name: TRACE ICP Stock PQL Std **Received:** 30-JUN-09 **Catalog Number:** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number:** 1016475
Employee: Helen Camello **Solvent:** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount:** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number:** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number:** 4909129
Employee: Helen Camello **Solvent:** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Standard Logbook

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI090930-A **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE liquid Spike Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	4 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090930-B **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Standard Logbook

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: QS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Standard Logbook

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515
Name: METALSPIKE-2 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100205-A **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI100205-B **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI100310-48 **Opened:** 19-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSEA **Received:** 12-MAR-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 19-MAR-11 **Lot Number :** 1019141
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100312-40 **Opened:** 14-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 12-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 14-MAR-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: O2SI
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

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Analyte	Concentration	Analyte	Concentration
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100312-41 **Opened:** 14-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 12-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 14-MAR-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: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI100317-08 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-MAR-10 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019163
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI100405-12 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 05-APR-10 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019466
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI100405-13 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 05-APR-10 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019467
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI

Standard Logbook

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: UI100415-11 **Opened:** 15-APR-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 15-APR-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 15-APR-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO₃
Supplier: Q2SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

Serial ID: UMS100415-01 **Opened:** 15-APR-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 15-APR-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-11 **Lot Number :** 22-20JB
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: UMS100415-02 **Opened:** 15-APR-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 15-APR-10 **Lot Number :** 22-21JB
Type: Source Material **Expires:** 28-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: UMS100415-03 **Opened:** 15-APR-10 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 15-APR-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-11 **Lot Number :** 22-22JB
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: IHG100302-01 **Opened:** 02-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 02-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 03-MAR-10 **Solvent :** 1mL HNO3 + Type1 H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100302-02 **Opened:** 02-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 03-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Standard Logbook

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: WHG100302-01a **Opened:** 02-MAR-10 **Pipet Id :** Hq1289245
Name: MHGWORKCAL0.2CRA **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.2/CRA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100302-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Serial ID: WHG100302-02 **Opened:** 02-MAR-10 **Pipet Id :** Hq1289245
Name: MHGWORKCAL0.5 **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100302-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100302-03 **Opened:** 02-MAR-10 **Pipet Id :** Hq1289245
Name: MHGWORKCAL2.0 **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100302-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100302-04 **Opened:** 02-MAR-10 **Pipet Id :** Hq1289245
Name: MHGWORKCAL5.0CCV **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 5.0/CCV
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100302-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100302-05 **Opened:** 02-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL

Description: Mercury Working 1st Source CAL 10.0

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100302-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Serial ID: WHG100302-06 **Opened:** 02-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin
Supplier: GEL

Description: Mercury Working 2nd Source 5.0/ICV

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100302-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100302-13 **Opened:** 02-MAR-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 02-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 09-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL

Description: Mercury working intermediate standard for LCS/MS

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100322-42 **Opened:** 22-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 23-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
Employee: Helen Camello
Supplier: GEL

Description: TRACE ICP 0.1 PPM CALIBRATION STD.

Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100322-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100322-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100322-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100322-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100322-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100322-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100322-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100322-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100322-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100322-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100322-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100322-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100322-43 **Opened:** 22-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 23-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
Employee: Helen Carnello
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
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: WI100322-44 **Opened:** 22-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 23-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1289705
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI100322-45 **Opened:** 22-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 23-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
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

Standard Logbook

Serial ID: WI100322-46 **Opened:** 22-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 23-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1289705
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
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

Standard Logbook

Serial ID: WI100322-47 **Opened:** 22-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 23-MAR-10 **Solvent :** 3%HCL &1%HNO3-1289705
Employee: Helen Camello
Supplier: Q2si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
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: WMS100421-04 **Opened:** 21-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 21-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 22-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1303289
Supplier: GEL

Standard Logbook

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
UMS100415-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100415-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100421-04A **Opened:** 21-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 21-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 22-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100421-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100421-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100421-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100421-05 **Opened:** 21-APR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 21-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 22-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100421-06

Name: ICPMS CRDL

Type: Working

Employee: Paul Boyd

Supplier: GEL

Description: ICPMS CRDL

Comments: None

Opened: 21-APR-10

Received: 21-APR-10

Expires: 22-APR-10

Balance Id : 40245216

Pipet Id : 3820544

Solvent : 2%HNO3/1%HCl - 1303289

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100421-07 **Opened:** 21-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 21-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 22-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1303289
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100415-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Carbon	2000 mg/L	5 mL	50 mL	200000 ug/L
UI100415-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100415-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100415-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100415-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100421-08 **Opened:** 21-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 21-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 22-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100415-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Carbon	2000 mg/L	5 mL	50 mL	200000 ug/L
UI100415-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100415-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100415-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100415-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 1176183 **Opened:** 24-AUG-09 **Lot Number :** H20001
Name: B-H2SO4-MER **Received:** 24-AUG-09
Type: Reagent/Solvent **Expires:** 24-AUG-10
Employee: Tara Griffin
Supplier: Mallinckrodt
Description: Sulfuric Acid, Concentrated
Comments: None

Serial ID: 1215906 **Opened:** 06-NOV-09 **Lot Number :** H44465
Name: B-K2S2O8S-MER **Received:** 06-NOV-09
Type: Reagent/Solvent **Expires:** 06-NOV-10
Employee: Tara Griffin
Supplier: J.T BAKER
Description: Potassium Persulfate Concentrate
Comments: None

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Standard Logbook

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1274391-1 **Opened:** 24-FEB-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 24-FEB-10 **Lot Number :** H44025
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1274969 **Opened:** 24-FEB-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1274973 **Opened:** 24-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 24-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1276435-C **Opened:** 28-FEB-10 **Balance Id :** BAL-002
Name: B-K2S2O8-MER **Received:** 28-FEB-10
Type: Reagent/Solvent **Expires:** 28-AUG-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% Potassium Persulfate
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

Serial ID: 1277238-C **Opened:** 01-MAR-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1289705 **Opened:** 22-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 12-MAR-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 28-MAR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1302252 **Opened:** 15-APR-10 **Lot Number :** J 10027 L
Name: I-HNO3 **Received:** 15-APR-10
Type: Reagent/Solvent **Expires:** 15-APR-11
Employee: Louis Hall
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1302255 **Opened:** 15-APR-10 **Lot Number :** J07033
Name: I-HCL **Received:** 15-APR-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 15-APR-11
Employee: Louis Hall
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1303289 **Opened:** 19-APR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCL-ICPMS **Received:** 19-APR-10
Type: Reagent/Solvent **Expires:** 26-APR-10
Employee: Paul Boyd
Supplier: GEL

Standard Logbook

Description: 2%HNO3/1%HCl Solution (Type I Water)

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1302252	I-HNO3	69.0-70.0	160 mL	9 l	N/A
1302255	I-HCL	36.5-38.0	80 mL	9 l	N/A

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2013**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	957580	Method:	SW9012A Cyanide and Total
Prep Batch :	957579	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
247907001	RE15-10-8019
247907002	RE15-10-8013
247907003	RE15-10-8026
247907004	RE15-10-8017
247907005	RE15-10-8025
247907006	RE15-10-8022
247907007	RE15-10-8014
247907008	RE15-10-8023
247907009	RE15-10-8020
247907010	RE15-10-8018
247907011	RE15-10-8015
247907012	RE15-10-8021
247907013	RE15-10-8024
247907014	RE15-10-8016
247907015	RE15-10-8065
247907016	RE15-10-8066
247907017	RE15-10-8033
1202053292	Method Blank (MB)
1202053293	247907001(RE15-10-8019) Sample Duplicate (DUP)
1202053294	247907002(RE15-10-8013) Sample Duplicate (DUP)
1202053295	247907001(RE15-10-8019) Matrix Spike (MS)
1202053296	247907002(RE15-10-8013) Matrix Spike (MS)
1202053297	247907001(RE15-10-8019) Matrix Spike Duplicate (MSD)
1202053298	247907002(RE15-10-8013) Matrix Spike Duplicate (MSD)
1202053299	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: 247907001 (RE15-10-8019) and 247907002 (RE15-10-8013).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The spike recovery falls outside of the client specified acceptance limits due to matrix interference: 1202053295 (RE15-10-8019) and 1202053296 (RE15-10-8013).

Matrix Spike Duplicate (MSD) Recovery Statement

The spike recovery duplicate falls outside of the client specified acceptance limits due to matrix interference: 1202053297 (RE15-10-8019) and 1202053298 (RE15-10-8013).

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) between the Spike and Spike Duplicate was outside of the required acceptance limits due to the heterogeneous matrix of the sample. 1202053295 (RE15-10-8019) and 1202053297 (RE15-10-8019).

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. 1202053293 (RE15-10-8019) and 247907001 (RE15-10-8019).

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: 1202053299 (LCS).

Sample Re-analysis

The following samples were re-analyzed due to instrument failure: 1202053295 (RE15-10-8019), 1202053297 (RE15-10-8019), 1202053298 (RE15-10-8013) and 247907003 (RE15-10-8026).

Miscellaneous Information

Data Exception (DER) Documentation

The following DER was generated for this SDG: 800862 1202053295 (RE15-10-8019), 1202053296 (RE15-10-8013), 1202053297 (RE15-10-8019) and 1202053298 (RE15-10-8013).

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: Nik-DeA. Elmon Date: 3-22-10

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-2013 GEL Work Order: 247907

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

Y. J. C. A. Elmore 3-22-10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8019
Sample ID: 247907001
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 16.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.2	277	ug/kg	1	AXC2	03/04/10	1448	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8013
Sample ID: 247907002
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 21.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	76.2	280	ug/kg	1	AXC2	03/04/10	1452	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	SW846 9012A		

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8026
Sample ID: 247907003
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 9.06%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	66.8	245	ug/kg	1	AXC2	03/04/10	1502	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8017
Sample ID: 247907004
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 24.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	83.9	308	ug/kg	1	AXC2	03/04/10	1456	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8025
Sample ID: 247907005
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 32.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	98.3	361	ug/kg	1	AXC2	03/04/10	1504	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8022
Sample ID: 247907006
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 4.04%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	66.8	246	ug/kg	1	AXC2	03/04/10	1505	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8014
Sample ID: 247907007
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 5.98%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	64.6	237	ug/kg	1	AXC2	03/04/10	1506	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8023
Sample ID: 247907008
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 17.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	75.3	277	ug/kg	1	AXC2	03/04/10	1507	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8020
Sample ID: 247907009
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 6.12%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	72.4	266	ug/kg	1	AXC2	03/04/10	1508	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8018
Sample ID: 247907010
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 20.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	79.5	292	ug/kg	1	AXC2	03/04/10	1509	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8015
Sample ID: 247907011
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 37.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	108	399	ug/kg	1	AXC2	03/04/10	1513	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8021
Sample ID: 247907012
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 14.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.3	270	ug/kg	1	AXC2	03/04/10	1514	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8024
Sample ID: 247907013
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 13%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	73.8	271	ug/kg	1	AXC2	03/04/10	1515	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8016
Sample ID: 247907014
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 9.36%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.0	246	ug/kg	1	AXC2	03/04/10	1516	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8065
Sample ID: 247907015
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 9.23%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	68.1	250	ug/kg	1	AXC2	03/04/10	1517	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8066
Sample ID: 247907016
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 19.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	81.0	298	ug/kg	1	AXC2	03/04/10	1518	957580	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 22, 2010

Client SDG: 10-2013

Client Sample ID: RE15-10-8033
Sample ID: 247907017
Matrix: R
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client
Moisture: 24.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	---------	------	------	-------	--------

Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	77.5	285	ug/kg	1	AXC2	03/04/10	1518	957580	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1301	957579

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

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QC Summary

Report Date: March 22, 2010

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Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 247907

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	957580										
QC1202053293	247907001	DUP									
Cyanide, Total		U	ND	J	194	ug/kg	200	(+/-293)	AXC2	03/04/10	14:49
QC1202053294	247907002	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			03/04/10	14:53
QC1202053299	LCS										
Cyanide, Total		67900			46800	ug/kg	68.9	(32%-157%)		03/04/10	14:44
QC1202053292	MB										
Cyanide, Total				U	250	ug/kg				03/04/10	14:43
QC1202053295	247907001	MS									
Cyanide, Total		5640	U	ND	2710	ug/kg	47.7	(26%-158%)		03/04/10	15:01
QC1202053296	247907002	MS									
Cyanide, Total		6260	U	ND	2750	ug/kg	44	(26%-158%)		03/04/10	14:54
QC1202053297	247907001	MSD									
Cyanide, Total		5860	U	ND	3870	ug/kg	35.3*	65.7	(0%-30%)	03/04/10	14:51
QC1202053298	247907002	MSD									
Cyanide, Total		6380	U	ND	2620	ug/kg	5.08	41	(0%-30%)	03/04/10	15:02

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based

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Workorder: 247907

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[illegible]

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^a 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: 22-MAR-2010 10:08

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2013

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	04-MAR-2010 14:05:55	OM_3-4-2010_13-55-23	151	150	101	(90%-110%)	Yes
CCV	04-MAR-2010 14:32:38	OM_3-4-2010_13-55-23	104	100	104	(90%-110%)	Yes
CCV	04-MAR-2010 14:45:01	OM_3-4-2010_13-55-23	104	100	104	(90%-110%)	Yes
CCV	04-MAR-2010 14:57:33	OM_3-4-2010_13-55-23	105	100	105	(90%-110%)	Yes
CCV	04-MAR-2010 15:09:58	OM_3-4-2010_13-55-23	103	100	103	(90%-110%)	Yes
CCV	04-MAR-2010 15:22:30	OM_3-4-2010_13-55-23	103	100	103	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	04-MAR-2010 14:07:45	OM_3-4-2010_13-55-23	-1.31	10	Yes
CCB	04-MAR-2010 14:34:28	OM_3-4-2010_13-55-23	-1.42	10	Yes
CCB	04-MAR-2010 14:46:51	OM_3-4-2010_13-55-23	-1.45	10	Yes
CCB	04-MAR-2010 14:59:22	OM_3-4-2010_13-55-23	-0.946	10	Yes
CCB	04-MAR-2010 15:11:48	OM_3-4-2010_13-55-23	-1.4	10	Yes
CCB	04-MAR-2010 15:24:20	OM_3-4-2010_13-55-23	-1.05	10	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 957579.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Alan Stanley		LCS	1202053299	Total Cyanide Solid LCS	URF1200957-01	.25	g
Method: SW846 9010B Prep		MS	1202053295	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Lab SOP: GL-GC-E-067 REV# 13		MS	1202053296	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Instrument: Sartorius Balance B-001		MSD	1202053297	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
		MSD	1202053298	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202053292 MIB	04-MAR-2010 13:01:00	Soil	0.5	25	50	>12
1202053299 LCS	04-MAR-2010 13:01:00	Soil	0.25	25	100	>12
247907001	04-MAR-2010 13:01:00	Soil	0.54	25	46.2963	>12
1202053293 DUP (247907001)	04-MAR-2010 13:01:00	Soil	0.51	25	49.01961	>12
1202053295 MS (247907001)	04-MAR-2010 13:01:00	Soil	0.53	25	47.16981	>12
1202053297 MSD (247907001)	04-MAR-2010 13:01:00	Soil	0.51	25	49.01961	>12
247907002	04-MAR-2010 13:01:00	Soil	0.57	25	43.85965	>12
1202053294 DUP (247907002)	04-MAR-2010 13:01:00	Soil	0.52	25	48.07692	>12
1202053296 MS (247907002)	04-MAR-2010 13:01:00	Soil	0.51	25	49.01961	>12
1202053298 MSD (247907002)	04-MAR-2010 13:01:00	Soil	0.5	25	50	>12
247907003	04-MAR-2010 13:01:00	Soil	0.56	25	44.64286	>12
247907004	04-MAR-2010 13:01:00	Soil	0.54	25	46.2963	>12
247907005	04-MAR-2010 13:01:00	Soil	0.51	25	49.01961	>12
247907006	04-MAR-2010 13:01:00	Soil	0.53	25	47.16981	>12
247907007	04-MAR-2010 13:01:00	Soil	0.56	25	44.64286	>12
247907008	04-MAR-2010 13:01:00	Soil	0.55	25	45.45455	>12
247907009	04-MAR-2010 13:01:00	Soil	0.5	25	50	>12
247907010	04-MAR-2010 13:01:00	Soil	0.54	25	46.2963	>12
247907011	04-MAR-2010 13:01:00	Soil	0.5	25	50	>12
247907012	04-MAR-2010 13:01:00	Soil	0.54	25	46.2963	>12
247907013	04-MAR-2010 13:01:00	Soil	0.53	25	47.16981	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 957579.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202053299	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202053295	Secondary source standard for CN and phenol. Used to spike LCS. MS, ICV	URF1269274-02	.025	mL
MS	1202053296	Secondary source standard for CN and phenol. Used to spike LCS. MS, ICV	URF1269274-02	.025	mL
MSD	1202053297	Secondary source standard for CN and phenol. Used to spike LCS. MS, ICV	URF1269274-02	.025	mL
MSD	1202053298	Secondary source standard for CN and phenol. Used to spike LCS. MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
247907014	04-MAR-2010 13:01:00	Soil	0.56	25	44.64286	>12
247907015	04-MAR-2010 13:01:00	Soil	0.55	25	45.45455	>12
247907016	04-MAR-2010 13:01:00	Soil	0.52	25	48.07692	>12
247907017	04-MAR-2010 13:01:00	Soil	0.58	25	43.10345	>12
248045012	04-MAR-2010 13:01:00	Soil	0.55	25	45.45455	>12
248045013	04-MAR-2010 13:01:00	Soil	0.58	25	43.10345	>12
248045014	04-MAR-2010 13:01:00	Soil	0.52	25	48.07692	>12

Comments:

Reagent/Solvent Lot ID	Description	Amount
1260189-C	50% H2SO4 CN Prep	2.5 mL
1270661-C	Bismuth Nitrate Solution	1.25 mL
1270663-C	0.8N H3NO3S	1.25 mL
1270669-C	51% MgCl2 Soln	1 mL
1273851-C	0.25N Sodium Hydroxide Solution	25 mL
WCN100304-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/4/2010 13:58:46	OM_3-4-2010_13-55-23
150 ppb		1	axc2	3/4/2010 13:59:38	OM_3-4-2010_13-55-23
100 ppb		1	axc2	3/4/2010 14:00:30	OM_3-4-2010_13-55-23
50 ppb		1	axc2	3/4/2010 14:01:23	OM_3-4-2010_13-55-23
10 ppb		1	axc2	3/4/2010 14:02:16	OM_3-4-2010_13-55-23
CRDL 5.0 ppb		1	axc2	3/4/2010 14:03:10	OM_3-4-2010_13-55-23
ICAL-00		1	axc2	3/4/2010 14:04:04	OM_3-4-2010_13-55-23
ICV		1	axc2	3/4/2010 14:05:55	OM_3-4-2010_13-55-23
ICB		1	axc2	3/4/2010 14:07:45	OM_3-4-2010_13-55-23
CRDL		1	axc2	3/4/2010 14:09:35	OM_3-4-2010_13-55-23
1202053284	957578	1	axc2	3/4/2010 14:11:25	OM_3-4-2010_13-55-23
1202053291	957578	25	axc2	3/4/2010 14:12:18	OM_3-4-2010_13-55-23
247899001	957578	1	axc2	3/4/2010 14:13:11	OM_3-4-2010_13-55-23
1202053285	957578	1	axc2	3/4/2010 14:14:05	OM_3-4-2010_13-55-23
1202053287	957578	1	axc2	3/4/2010 14:14:58	OM_3-4-2010_13-55-23
1202053289	957578	1	axc2	3/4/2010 14:15:51	OM_3-4-2010_13-55-23
247899002	957578	1	axc2	3/4/2010 14:16:44	OM_3-4-2010_13-55-23
1202053286	957578	1	axc2	3/4/2010 14:17:36	OM_3-4-2010_13-55-23
1202053288	957578	1	axc2	3/4/2010 14:18:29	OM_3-4-2010_13-55-23
1202053290	957578	1	axc2	3/4/2010 14:19:21	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:20:13	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:22:04	OM_3-4-2010_13-55-23
247899003	957578	1	axc2	3/4/2010 14:23:52	OM_3-4-2010_13-55-23
247899004	957578	1	axc2	3/4/2010 14:24:44	OM_3-4-2010_13-55-23
247899005	957578	1	axc2	3/4/2010 14:25:35	OM_3-4-2010_13-55-23
247899006	957578	1	axc2	3/4/2010 14:26:28	OM_3-4-2010_13-55-23
247899007	957578	1	axc2	3/4/2010 14:27:19	OM_3-4-2010_13-55-23
247899008	957578	1	axc2	3/4/2010 14:28:13	OM_3-4-2010_13-55-23
247899009	957578	1	axc2	3/4/2010 14:29:06	OM_3-4-2010_13-55-23
247899010	957578	1	axc2	3/4/2010 14:29:59	OM_3-4-2010_13-55-23
247899011	957578	1	axc2	3/4/2010 14:30:53	OM_3-4-2010_13-55-23
247899012	957578	1	axc2	3/4/2010 14:31:46	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:32:38	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:34:28	OM_3-4-2010_13-55-23
247899013	957578	1	axc2	3/4/2010 14:36:18	OM_3-4-2010_13-55-23
247899014	957578	1	axc2	3/4/2010 14:37:11	OM_3-4-2010_13-55-23
247899015	957578	1	axc2	3/4/2010 14:38:03	OM_3-4-2010_13-55-23
247899016	957578	1	axc2	3/4/2010 14:38:56	OM_3-4-2010_13-55-23
247899017	957578	1	axc2	3/4/2010 14:39:48	OM_3-4-2010_13-55-23
247899018	957578	1	axc2	3/4/2010 14:40:41	OM_3-4-2010_13-55-23
247899019	957578	1	axc2	3/4/2010 14:41:33	OM_3-4-2010_13-55-23
247899020	957578	1	axc2	3/4/2010 14:42:25	OM_3-4-2010_13-55-23
1202053292	957580	1	axc2	3/4/2010 14:43:17	OM_3-4-2010_13-55-23
1202053299	957580	25	axc2	3/4/2010 14:44:08	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:45:01	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:46:51	OM_3-4-2010_13-55-23
247907001	957580	1	axc2	3/4/2010 14:48:41	OM_3-4-2010_13-55-23
1202053293	957580	1	axc2	3/4/2010 14:49:35	OM_3-4-2010_13-55-23
1202053295*	957580	1	axc2	3/4/2010 14:50:28	OM_3-4-2010_13-55-23
1202053297	957580	1	axc2	3/4/2010 14:51:22	OM_3-4-2010_13-55-23
247907002	957580	1	axc2	3/4/2010 14:52:15	OM_3-4-2010_13-55-23
1202053294	957580	1	axc2	3/4/2010 14:53:09	OM_3-4-2010_13-55-23
1202053296	957580	1	axc2	3/4/2010 14:54:02	OM_3-4-2010_13-55-23
1202053298*	957580	1	axc2	3/4/2010 14:54:55	OM_3-4-2010_13-55-23
247907003*	957580	1	axc2	3/4/2010 14:55:47	OM_3-4-2010_13-55-23
247907004	957580	1	axc2	3/4/2010 14:56:40	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:57:33	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:59:22	OM_3-4-2010_13-55-23

1202053295	957580	1	axc2	3/4/2010	15:01:12	OM_3-4-2010_13-55-23
1202053298	957580	1	axc2	3/4/2010	15:02:05	OM_3-4-2010_13-55-23
247907003	957580	1	axc2	3/4/2010	15:02:58	OM_3-4-2010_13-55-23
247907004	957580	1	axc2	3/4/2010	15:03:50	OM_3-4-2010_13-55-23
247907005	957580	1	axc2	3/4/2010	15:04:43	OM_3-4-2010_13-55-23
247907006	957580	1	axc2	3/4/2010	15:05:35	OM_3-4-2010_13-55-23
247907007	957580	1	axc2	3/4/2010	15:06:28	OM_3-4-2010_13-55-23
247907008	957580	1	axc2	3/4/2010	15:07:20	OM_3-4-2010_13-55-23
247907009	957580	1	axc2	3/4/2010	15:08:11	OM_3-4-2010_13-55-23
247907010	957580	1	axc2	3/4/2010	15:09:06	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:09:58	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:11:48	OM_3-4-2010_13-55-23
247907011	957580	1	axc2	3/4/2010	15:13:39	OM_3-4-2010_13-55-23
247907012	957580	1	axc2	3/4/2010	15:14:32	OM_3-4-2010_13-55-23
247907013	957580	1	axc2	3/4/2010	15:15:27	OM_3-4-2010_13-55-23
247907014	957580	1	axc2	3/4/2010	15:16:20	OM_3-4-2010_13-55-23
247907015	957580	1	axc2	3/4/2010	15:17:13	OM_3-4-2010_13-55-23
247907016	957580	1	axc2	3/4/2010	15:18:07	OM_3-4-2010_13-55-23
247907017	957580	1	axc2	3/4/2010	15:18:59	OM_3-4-2010_13-55-23
248045012	957580	1	axc2	3/4/2010	15:19:52	OM_3-4-2010_13-55-23
248045013	957580	1	axc2	3/4/2010	15:20:45	OM_3-4-2010_13-55-23
248045014	957580	1	axc2	3/4/2010	15:21:38	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:22:30	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:24:20	OM_3-4-2010_13-55-23
1202060243	960499	1	axc2	3/4/2010	15:26:09	OM_3-4-2010_13-55-23
1202060250	960499	1	axc2	3/4/2010	15:27:01	OM_3-4-2010_13-55-23
247908001	960499	1	axc2	3/4/2010	15:27:53	OM_3-4-2010_13-55-23
247908002	960499	1	axc2	3/4/2010	15:28:47	OM_3-4-2010_13-55-23
247908003	960499	1	axc2	3/4/2010	15:29:41	OM_3-4-2010_13-55-23
247997001	960499	1	axc2	3/4/2010	15:30:34	OM_3-4-2010_13-55-23
248001001	960499	1	axc2	3/4/2010	15:31:29	OM_3-4-2010_13-55-23
248034001	960499	1	axc2	3/4/2010	15:32:22	OM_3-4-2010_13-55-23
248038001	960499	1	axc2	3/4/2010	15:33:15	OM_3-4-2010_13-55-23
1202060244	960499	1	axc2	3/4/2010	15:34:09	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:35:01	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:36:53	OM_3-4-2010_13-55-23
1202060246	960499	1	axc2	3/4/2010	15:38:42	OM_3-4-2010_13-55-23
1202060248	960499	1	axc2	3/4/2010	15:39:36	OM_3-4-2010_13-55-23
248038002	960499	1	axc2	3/4/2010	15:40:29	OM_3-4-2010_13-55-23
1202060245	960499	1	axc2	3/4/2010	15:41:22	OM_3-4-2010_13-55-23
1202060247	960499	1	axc2	3/4/2010	15:42:15	OM_3-4-2010_13-55-23
1202060249	960499	1	axc2	3/4/2010	15:43:07	OM_3-4-2010_13-55-23
248039001	960499	1	axc2	3/4/2010	15:44:01	OM_3-4-2010_13-55-23
248046001	960499	1	axc2	3/4/2010	15:44:52	OM_3-4-2010_13-55-23
248046002	960499	1	axc2	3/4/2010	15:45:45	OM_3-4-2010_13-55-23
248053001	960499	1	axc2	3/4/2010	15:46:39	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:47:31	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:49:22	OM_3-4-2010_13-55-23
248053002	960499	1	axc2	3/4/2010	15:51:13	OM_3-4-2010_13-55-23
248053003	960499	1	axc2	3/4/2010	15:52:07	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:52:59	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:54:49	OM_3-4-2010_13-55-23

Original Run Filename: OM_3-4-2010_13-55-23.OMN created 3/4/2010 13:55:23
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-4-2010_13-55-23.OMN last modified 3/4/2010 15:55:54
 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)				
WCN100304-01	1	S1	200	9.08	3/4/2010@13:58:46			200 ppb
WCN100304-02	1	S2	150	6.91	3/4/2010@13:59:38			150 ppb
WCN100304-03	1	S3	100	4.35	3/4/2010@14:00:30			100 ppb
WCN100304-04	1	S4	50.0	2.45	3/4/2010@14:01:23			50 ppb
WCN100304-05	1	S5	10.0	0.578	3/4/2010@14:02:16			10 ppb
WCN100304-06	1	S6	5.00	0.340	3/4/2010@14:03:10			CRDL 5.0 ppb
WCN100304-08	1	S7	0.00	0.0240	3/4/2010@14:04:04			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99948 > 0.99500					
Message			Pass					
Action			Continue					
WCN100304-07	1	S8	151	6.88	3/4/2010@14:05:55			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			0.8 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.8 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100304-08	1	S7	-1.31	0.0240	3/4/2010@14:07:45			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.31 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.31 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100304-06	1	S6	5.86	0.346	3/4/2010@14:09:35			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.86 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.86 > 2.50					
Message			Pass					
Action			None					
1202053284|957578|MB	1	1	-2.31	-0.0206	3/4/2010@14:11:25			
1202053291|LCS	1	2	18.3	0.904	3/4/2010@14:12:18		25.00	
247899001	1	3	-0.820	0.0461	3/4/2010@14:13:11			
1202053285|DUP	1	4	-0.872	0.0438	3/4/2010@14:14:05			
1202053287|MS	1	5	100	4.59	3/4/2010@14:14:58			
1202053289|MSD	1	6	99.8	4.57	3/4/2010@14:15:51			
247899002	1	7	1.56	0.153	3/4/2010@14:16:44			
1202053286|DUP	1	8	2.02	0.174	3/4/2010@14:17:36			
1202053288|MS	1	9	87.4	4.01	3/4/2010@14:18:29			
1202053290|MSD	1	10	94.8	4.35	3/4/2010@14:19:21			
WCN100304-03	1	S3	103	4.72	3/4/2010@14:20:13			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.1 < 10.0					

			Message	CCV Passed					
			Action	Continue					
DQM Test: < - Percent Relative Difference									
			Result:	3.1 < 10.0					
			Message	CCV Passed					
			Action	Continue					
WCN100304-08	1	S7		-1.38	0.0208	3/4/2010@14:22:04			CCB
			Known Conc:	0.00					
DQM Test: > + Concentration Limit									
			Result:	-1.38 < 5.00					
			Message	CCB Passed					
			Action	Continue					
DQM Test: < - Concentration Limit									
			Result:	-1.38 > -5.00					
			Message	CCB Passed					
			Action	Continue					
247899003	1	11		-0.646	0.0540	3/4/2010@14:23:52			
247899004	1	12		-0.530	0.0592	3/4/2010@14:24:44			
247899005	1	13		-1.15	0.0313	3/4/2010@14:25:35			
247899006	1	14		0.280	0.0956	3/4/2010@14:26:28			
247899007	1	15		0.0899	0.0871	3/4/2010@14:27:19			
247899008	1	16		1.52	0.151	3/4/2010@14:28:13			
247899009	1	17		5.29	0.321	3/4/2010@14:29:06			
247899010	1	18		0.0677	0.0861	3/4/2010@14:29:59			
247899011	1	19		2.55	0.198	3/4/2010@14:30:53			
247899012	1	20		-0.401	0.0650	3/4/2010@14:31:46			
WCN100304-03	1	S3		104	4.77	3/4/2010@14:32:38			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					
WCN100304-08	1	S7		-1.42	0.0192	3/4/2010@14:34:28			CCB
			Known Conc:	0.00					
DQM Test: > + Concentration Limit									
			Result:	-1.42 < 5.00					
			Message	CCB Passed					
			Action	Continue					
DQM Test: < - Concentration Limit									
			Result:	-1.42 > -5.00					
			Message	CCB Passed					
			Action	Continue					
247899013	1	21		1.98	0.172	3/4/2010@14:36:18			
247899014	1	22		-0.282	0.0703	3/4/2010@14:37:11			
247899015	1	23		-0.685	0.0522	3/4/2010@14:38:03			
247899016	1	24		-1.13	0.0322	3/4/2010@14:38:56			
247899017	1	25		0.385	0.100	3/4/2010@14:39:48			
247899018	1	26		-0.640	0.0543	3/4/2010@14:40:41			
247899019	1	27		0.0545	0.0855	3/4/2010@14:41:33			
247899020	1	28		1.88	0.168	3/4/2010@14:42:25			
1202053292|957580|MB	1	29		-1.43	0.0185	3/4/2010@14:43:17			
1202053299|LCS	1	30		18.7	0.924	3/4/2010@14:44:08		25.00	
WCN100304-03	1	S3		104	4.75	3/4/2010@14:45:01			CCV
			Known Conc:	100					
DQM Test: > + Percent Relative Difference									
			Result:	3.9 < 10.0					
			Message	CCV Passed					
			Action	Continue					
DQM Test: < - Percent Relative Difference									
			Result:	3.9 < 10.0					
			Message	CCV Passed					
			Action	Continue					
WCN100304-08	1	S7		-1.45	0.0178	3/4/2010@14:46:51			CCB
			Known Conc:	0.00					

DQM Test: > + Concentration Limit						
Result:		-1.45 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.45 > -5.00				
Message		CCB Passed				
Action		Continue				
247907001	1	31	0.423	0.102	3/4/2010@14:48:41	
1202053293	1	32	3.32	0.232	3/4/2010@14:49:35	
1202053295	1	33	45.9	2.15	3/4/2010@14:50:28	
1202053297	1	34	66.1	3.06	3/4/2010@14:51:22	
247907002	1	35	-0.678	0.0526	3/4/2010@14:52:15	
1202053294	1	36	-0.764	0.0487	3/4/2010@14:53:09	
1202053296	1	37	44.0	2.06	3/4/2010@14:54:02	
1202053298	1	38	36.8	1.74	3/4/2010@14:54:55	
247907003	1	39	147	6.70	3/4/2010@14:55:47	
247907004	1	40	515	23.2	3/4/2010@14:56:40	
WCN100304-03	1	S3	105	4.80	3/4/2010@14:57:33	CCV
Known Conc:			100			
DQM Test: > + Percent Relative Difference						
Result:		4.8 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		4.8 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100304-08	1	S7	-0.946	0.0405	3/4/2010@14:59:22	CCB
Known Conc:			0.00			
DQM Test: > + Concentration Limit						
Result:		-0.946 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-0.946 > -5.00				
Message		CCB Passed				
Action		Continue				
1202053295	1	33	48.1	2.24	3/4/2010@15:01:12	
1202053298	1	38	41.0	1.93	3/4/2010@15:02:05	
247907003	1	39	-0.540	0.0588	3/4/2010@15:02:58	
247907004	1	40	-0.705	0.0513	3/4/2010@15:03:50	
247907005	1	41	0.810	0.119	3/4/2010@15:04:43	
247907006	1	42	-1.32	0.0235	3/4/2010@15:05:35	
247907007	1	43	-0.570	0.0574	3/4/2010@15:06:28	
247907008	1	44	0.767	0.118	3/4/2010@15:07:20	
247907009	1	45	-1.10	0.0334	3/4/2010@15:08:11	
247907010	1	46	-0.113	0.0779	3/4/2010@15:09:06	
WCN100304-03	1	S3	103	4.72	3/4/2010@15:09:58	CCV
Known Conc:			100			
DQM Test: > + Percent Relative Difference						
Result:		3.1 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		3.1 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100304-08	1	S7	-1.40	0.0200	3/4/2010@15:11:48	CCB
Known Conc:			0.00			
DQM Test: > + Concentration Limit						
Result:		-1.40 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.40 > -5.00				
Message		CCB Passed				
Action		Continue				

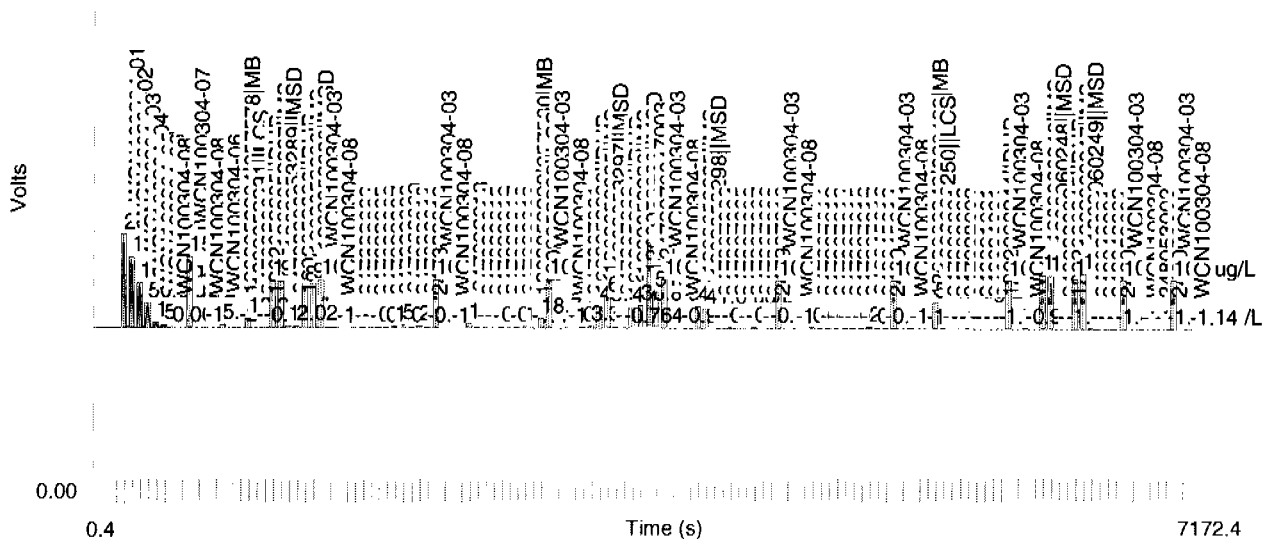
247907011	1	47	0.796	0.119	3/4/2010@15:13:39			
247907012	1	48	-0.529	0.0593	3/4/2010@15:14:32			
247907013	1	49	-0.631	0.0547	3/4/2010@15:15:27			
247907014	1	50	-1.12	0.0329	3/4/2010@15:16:20			
247907015	1	51	-0.547	0.0584	3/4/2010@15:17:13			
247907016	1	52	-0.602	0.0560	3/4/2010@15:18:07			
247907017	1	53	-0.0840	0.0793	3/4/2010@15:18:59			
248045012	1	54	2.35	0.189	3/4/2010@15:19:52			
248045013	1	55	0.0806	0.0867	3/4/2010@15:20:45			
248045014	1	56	-0.941	0.0407	3/4/2010@15:21:38			
WCN100304-03	1	S3	103	4.71	3/4/2010@15:22:30			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					
WCN100304-08	1	S7	-1.05	0.0360	3/4/2010@15:24:20			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					
1202060243|960499|MB	1	57	-1.44	0.0185	3/4/2010@15:26:09			
1202060250|LCS	1	58	54.7	2.54	3/4/2010@15:27:01			
247908001	1	59	-1.24	0.0273	3/4/2010@15:27:53			
247908002	1	60	-1.23	0.0275	3/4/2010@15:28:47			
247908003	1	61	-1.31	0.0241	3/4/2010@15:29:41			
247997001	1	62	-1.39	0.0205	3/4/2010@15:30:34			
248001001	1	63	-1.27	0.0260	3/4/2010@15:31:29			
248034001	1	64	-1.28	0.0256	3/4/2010@15:32:22			
248038001	1	65	-1.45	0.0180	3/4/2010@15:33:15			
1202060244|DUP	1	66	-1.77	0.00344	3/4/2010@15:34:09			
WCN100304-03	1	S3	103	4.72	3/4/2010@15:35:01			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100304-08	1	S7	-0.945	0.0405	3/4/2010@15:36:53			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.945 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.945 > -5.00					
Message			CCB Passed					
Action			Continue					
1202060246|MS	1	67	115	5.25	3/4/2010@15:38:42			
1202060248|MSD	1	68	113	5.14	3/4/2010@15:39:36			
248038002	1	69	-1.15	0.0315	3/4/2010@15:40:29			
1202060245|DUP	1	70	-1.85	-3.69e-4	3/4/2010@15:41:22			
1202060247|MS	1	71	106	4.86	3/4/2010@15:42:15			
1202060249|MSD	1	72	117	5.36	3/4/2010@15:43:07			
248039001	1	73	-0.969	0.0395	3/4/2010@15:44:01			
248046001	1	74	-1.39	0.0206	3/4/2010@15:44:52			

248046002	1	75	-1.19	0.0296	3/4/2010@15:45:45		
248053001	1	76	-1.46	0.0172	3/4/2010@15:46:39		
WCN100304-03	1	S3	105	4.80	3/4/2010@15:47:31		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				
WCN100304-08	1	S7	-1.39	0.0205	3/4/2010@15:49:22		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				
248053002	1	77	-1.84	3.13e-4	3/4/2010@15:51:13		
248053003	1	78	-1.69	0.00722	3/4/2010@15:52:07		
WCN100304-03	1	S3	104	4.77	3/4/2010@15:52:59		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			4.4 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			4.4 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100304-08	1	S7	-1.14	0.0318	3/4/2010@15:54:49		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.14 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.14 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_3-4-2010_13-55-23.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

3.97



	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.08	0.603	-0.2	3/4/2010	13:59:49
2	150	1	6.91	0.459	-1.3	3/4/2010	14:00:41
3	100	1	4.35	0.290	4.9	3/4/2010	14:01:33
4	50.0	1	2.45	0.161	-4.8	3/4/2010	14:02:26
5	10.0	1	0.578	0.0367	-7.9	3/4/2010	14:03:19
6	5.00	1	0.340	0.0210	-9.3	3/4/2010	14:04:13
7	0.00	1	0.0240	7.56e-4		3/4/2010	14:05:07

Peak Area(V.s)

9.08

0.00

TCYANIDE concentration, ug/L

200

Area = 0.0449 * Conc + 0.0865
 Conc = 22.2 * Area - 1.85
 Correlation Coefficient (r) = 0.99948

No Weighting

Miscellaneous

DATA EXCEPTION REPORT

Mo.Day Yr.
08-MAR-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
LACHAT Flow Injection Analyzer

Test / Method:
SW846 9012A

Matrix Type:
Solid

Client Code:
LANL

Batch ID:
957580

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 247907(10-2013),248045(10-2075)

Application Issues:

Failed RPD for MS/MSD, or PS/PSD

**Specification and Requirements
Exception Description:**

1. Failed RPD for MS/MSD, or PS/PSD:

QC 1202053295MS
1202053297MSD

2. Failed recovery for MS/MSD:

QC 1202053295MS
1202053297MSD

3. Failed recovery for MS/MSD:

QC 1202053296MS
1202053298MSD

DER Disposition:

1. The relative percent difference (RPD) between the Spike and Spike Duplicate was outside of the required acceptance limits due to the heterogenous matrix of the sample (soil sample).

2. The Matrix spike falls outside of the client specified acceptance limits due to matrix interference. The matrix spike duplicate verified the result (soil sample).

3. The Matrix spike falls outside of the client specified acceptance limits due to matrix interference. The matrix spike duplicate verified the result with a passing RPD(soil sample).

Originator's Name:

Ashley Earl

08-MAR-10

Data Validator/Group Leader:

Elzbieta Szulc

17-MAR-10

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2013-1**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	960499	Method:	SW9012A Cyanide and Total
Prep Batch :	960498	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
247908001	RE15-10-8089
247908002	RE15-10-8086
247908003	RE15-10-8088
1202060243	Method Blank (MB)
1202060244	248038001(RE11-10-1684) Sample Duplicate (DUP)
1202060245	248038002(RE11-10-1683) Sample Duplicate (DUP)
1202060246	248038001(RE11-10-1684) Matrix Spike (MS)
1202060247	248038002(RE11-10-1683) Matrix Spike (MS)
1202060248	248038001(RE11-10-1684) Matrix Spike Duplicate (MSD)
1202060249	248038002(RE11-10-1683) Matrix Spike Duplicate (MSD)
1202060250	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: 248038001 (RE11-10-1684) and 248038002 (RE11-10-1683).

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. 1202060245 (RE11-10-1683).

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: Y. K. Cole A. Elmore Date: 3-22-10

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-2013-1 GEL Work Order: 247908

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

Nik-Cole A. Elmore 3-22-10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013-1

Client Sample ID: RE15-10-8089
Sample ID: 247908001
Matrix: W
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "As Received"

Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1527	960499	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013-1

Client Sample ID: RE15-10-8086
Sample ID: 247908002
Matrix: W
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Flow Injection Analysis

SW9012A Cyanide, Total "As Received"

Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1528	960499	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 22, 2010

Client SDG: 10-2013-1

Client Sample ID: RE15-10-8088
Sample ID: 247908003
Matrix: W
Collect Date: 18-FEB-10 12:00
Receive Date: 24-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1529	960499	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

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 22, 2010

Page 1 of 2

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

Contact: Ms. Joylene Valdez

Workorder: 247908

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	960499										
QC1202060244	248038001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	03/04/10	15:34
QC1202060245	248038002	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A			03/04/10	15:41
QC1202060250	LCS										
Cyanide, Total	50.0				54.7	ug/L	109	(90%-110%)		03/04/10	15:27
QC1202060243	MB										
Cyanide, Total			U		5.00	ug/L				03/04/10	15:26
QC1202060246	248038001	MS									
Cyanide, Total	100	U	ND		115	ug/L	115	(60%-144%)		03/04/10	15:38
QC1202060247	248038002	MS									
Cyanide, Total	100	U	ND		106	ug/L	106	(60%-144%)		03/04/10	15:42
QC1202060248	248038001	MSD									
Cyanide, Total	100	U	ND		113	ug/L	1.75	113	(0%-20%)	03/04/10	15:39
QC1202060249	248038002	MSD									
Cyanide, Total	100	U	ND		117	ug/L	9.87	117	(0%-20%)	03/04/10	15:43

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

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

QC Summary

Workorder: 247908

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: 22-MAR-2010 10:06

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2013-1

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	04-MAR-2010 14:05:55	OM_3-4-2010_13-55-23	151	150	101	(90%-110%)	Yes
CCV	04-MAR-2010 15:22:30	OM_3-4-2010_13-55-23	103	100	103	(90%-110%)	Yes
CCV	04-MAR-2010 15:35:01	OM_3-4-2010_13-55-23	103	100	103	(90%-110%)	Yes
CCV	04-MAR-2010 15:47:31	OM_3-4-2010_13-55-23	105	100	105	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	04-MAR-2010 14:07:45	OM_3-4-2010_13-55-23	-1.31	10	Yes
CCB	04-MAR-2010 15:24:20	OM_3-4-2010_13-55-23	-1.05	10	Yes
CCB	04-MAR-2010 15:36:53	OM_3-4-2010_13-55-23	-0.945	10	Yes
CCB	04-MAR-2010 15:49:22	OM_3-4-2010_13-55-23	-1.39	10	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 960498.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202060250	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.0125	mL
MS	1202060246	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202060247	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060248	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060249	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202060243 MB	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060250 LCS	04-MAR-2010 12:59:00	Water	25	25	1	>12
247908001	04-MAR-2010 12:59:00	Water	25	25	1	>12
247908002	04-MAR-2010 12:59:00	Water	25	25	1	>12
247908003	04-MAR-2010 12:59:00	Water	25	25	1	>12
247997001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248001001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248034001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248038001	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060244 DUP (248038001)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060246 MS (248038001)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060248 MSD (248038001)	04-MAR-2010 12:59:00	Water	25	25	1	>12
248038002	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060245 DUP (248038002)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060247 MS (248038002)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060249 MSD (248038002)	04-MAR-2010 12:59:00	Water	25	25	1	>12
248039001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248046001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248046002	04-MAR-2010 12:59:00	Water	25	25	1	>12
248053001	04-MAR-2010 12:59:00	Water	25	25	1	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 960498.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202060250	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.0125	mL
MS	1202060246	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202060247	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060248	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060249	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
248053002	04-MAR-2010 12:59:00	Water	25	25	1	>12
248053003	04-MAR-2010 12:59:00	Water	25	25	1	>12

Reagent/Solvent Lot ID	Description	Amount	Comments:
1260189-C	50% H2SO4 CN Prep	2.5 mL	
1270661-C	Bismuth Nitrate Solution	1.25 mL	
1270663-C	0.8N H3NO3S	1.25 mL	
1270669-C	51% MgCl2 Soln	1 mL	
1273851-C	0.25N Sodium Hydroxide Solution	25 mL	
WCN100304-07	150 ppb CN Distilled ICV Standard	.0375 mL	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/4/2010 13:58:46	OM_3-4-2010_13-55-23
150 ppb		1	axc2	3/4/2010 13:59:38	OM_3-4-2010_13-55-23
100 ppb		1	axc2	3/4/2010 14:00:30	OM_3-4-2010_13-55-23
50 ppb		1	axc2	3/4/2010 14:01:23	OM_3-4-2010_13-55-23
10 ppb		1	axc2	3/4/2010 14:02:16	OM_3-4-2010_13-55-23
CRDL 5.0 ppb		1	axc2	3/4/2010 14:03:10	OM_3-4-2010_13-55-23
ICAL-00		1	axc2	3/4/2010 14:04:04	OM_3-4-2010_13-55-23
ICV		1	axc2	3/4/2010 14:05:55	OM_3-4-2010_13-55-23
ICB		1	axc2	3/4/2010 14:07:45	OM_3-4-2010_13-55-23
CRDL		1	axc2	3/4/2010 14:09:35	OM_3-4-2010_13-55-23
1202053284	957578	1	axc2	3/4/2010 14:11:25	OM_3-4-2010_13-55-23
1202053291	957578	25	axc2	3/4/2010 14:12:18	OM_3-4-2010_13-55-23
247899001	957578	1	axc2	3/4/2010 14:13:11	OM_3-4-2010_13-55-23
1202053285	957578	1	axc2	3/4/2010 14:14:05	OM_3-4-2010_13-55-23
1202053287	957578	1	axc2	3/4/2010 14:14:58	OM_3-4-2010_13-55-23
1202053289	957578	1	axc2	3/4/2010 14:15:51	OM_3-4-2010_13-55-23
247899002	957578	1	axc2	3/4/2010 14:16:44	OM_3-4-2010_13-55-23
1202053286	957578	1	axc2	3/4/2010 14:17:36	OM_3-4-2010_13-55-23
1202053288	957578	1	axc2	3/4/2010 14:18:29	OM_3-4-2010_13-55-23
1202053290	957578	1	axc2	3/4/2010 14:19:21	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:20:13	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:22:04	OM_3-4-2010_13-55-23
247899003	957578	1	axc2	3/4/2010 14:23:52	OM_3-4-2010_13-55-23
247899004	957578	1	axc2	3/4/2010 14:24:44	OM_3-4-2010_13-55-23
247899005	957578	1	axc2	3/4/2010 14:25:35	OM_3-4-2010_13-55-23
247899006	957578	1	axc2	3/4/2010 14:26:28	OM_3-4-2010_13-55-23
247899007	957578	1	axc2	3/4/2010 14:27:19	OM_3-4-2010_13-55-23
247899008	957578	1	axc2	3/4/2010 14:28:13	OM_3-4-2010_13-55-23
247899009	957578	1	axc2	3/4/2010 14:29:06	OM_3-4-2010_13-55-23
247899010	957578	1	axc2	3/4/2010 14:29:59	OM_3-4-2010_13-55-23
247899011	957578	1	axc2	3/4/2010 14:30:53	OM_3-4-2010_13-55-23
247899012	957578	1	axc2	3/4/2010 14:31:46	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:32:38	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:34:28	OM_3-4-2010_13-55-23
247899013	957578	1	axc2	3/4/2010 14:36:18	OM_3-4-2010_13-55-23
247899014	957578	1	axc2	3/4/2010 14:37:11	OM_3-4-2010_13-55-23
247899015	957578	1	axc2	3/4/2010 14:38:03	OM_3-4-2010_13-55-23
247899016	957578	1	axc2	3/4/2010 14:38:56	OM_3-4-2010_13-55-23
247899017	957578	1	axc2	3/4/2010 14:39:48	OM_3-4-2010_13-55-23
247899018	957578	1	axc2	3/4/2010 14:40:41	OM_3-4-2010_13-55-23
247899019	957578	1	axc2	3/4/2010 14:41:33	OM_3-4-2010_13-55-23
247899020	957578	1	axc2	3/4/2010 14:42:25	OM_3-4-2010_13-55-23
1202053292	957580	1	axc2	3/4/2010 14:43:17	OM_3-4-2010_13-55-23
1202053299	957580	25	axc2	3/4/2010 14:44:08	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:45:01	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:46:51	OM_3-4-2010_13-55-23
247907001	957580	1	axc2	3/4/2010 14:48:41	OM_3-4-2010_13-55-23
1202053293	957580	1	axc2	3/4/2010 14:49:35	OM_3-4-2010_13-55-23
1202053295*	957580	1	axc2	3/4/2010 14:50:28	OM_3-4-2010_13-55-23
1202053297	957580	1	axc2	3/4/2010 14:51:22	OM_3-4-2010_13-55-23
247907002	957580	1	axc2	3/4/2010 14:52:15	OM_3-4-2010_13-55-23
1202053294	957580	1	axc2	3/4/2010 14:53:09	OM_3-4-2010_13-55-23
1202053296	957580	1	axc2	3/4/2010 14:54:02	OM_3-4-2010_13-55-23
1202053298*	957580	1	axc2	3/4/2010 14:54:55	OM_3-4-2010_13-55-23
247907003*	957580	1	axc2	3/4/2010 14:55:47	OM_3-4-2010_13-55-23
247907004	957580	1	axc2	3/4/2010 14:56:40	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:57:33	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:59:22	OM_3-4-2010_13-55-23

1202053295	957580	1	axc2	3/4/2010	15:01:12	OM_3-4-2010_13-55-23
1202053298	957580	1	axc2	3/4/2010	15:02:05	OM_3-4-2010_13-55-23
247907003	957580	1	axc2	3/4/2010	15:02:58	OM_3-4-2010_13-55-23
247907004	957580	1	axc2	3/4/2010	15:03:50	OM_3-4-2010_13-55-23
247907005	957580	1	axc2	3/4/2010	15:04:43	OM_3-4-2010_13-55-23
247907006	957580	1	axc2	3/4/2010	15:05:35	OM_3-4-2010_13-55-23
247907007	957580	1	axc2	3/4/2010	15:06:28	OM_3-4-2010_13-55-23
247907008	957580	1	axc2	3/4/2010	15:07:20	OM_3-4-2010_13-55-23
247907009	957580	1	axc2	3/4/2010	15:08:11	OM_3-4-2010_13-55-23
247907010	957580	1	axc2	3/4/2010	15:09:06	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:09:58	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:11:48	OM_3-4-2010_13-55-23
247907011	957580	1	axc2	3/4/2010	15:13:39	OM_3-4-2010_13-55-23
247907012	957580	1	axc2	3/4/2010	15:14:32	OM_3-4-2010_13-55-23
247907013	957580	1	axc2	3/4/2010	15:15:27	OM_3-4-2010_13-55-23
247907014	957580	1	axc2	3/4/2010	15:16:20	OM_3-4-2010_13-55-23
247907015	957580	1	axc2	3/4/2010	15:17:13	OM_3-4-2010_13-55-23
247907016	957580	1	axc2	3/4/2010	15:18:07	OM_3-4-2010_13-55-23
247907017	957580	1	axc2	3/4/2010	15:18:59	OM_3-4-2010_13-55-23
248045012	957580	1	axc2	3/4/2010	15:19:52	OM_3-4-2010_13-55-23
248045013	957580	1	axc2	3/4/2010	15:20:45	OM_3-4-2010_13-55-23
248045014	957580	1	axc2	3/4/2010	15:21:38	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:22:30	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:24:20	OM_3-4-2010_13-55-23
1202060243	960499	1	axc2	3/4/2010	15:26:09	OM_3-4-2010_13-55-23
1202060250	960499	1	axc2	3/4/2010	15:27:01	OM_3-4-2010_13-55-23
247908001	960499	1	axc2	3/4/2010	15:27:53	OM_3-4-2010_13-55-23
247908002	960499	1	axc2	3/4/2010	15:28:47	OM_3-4-2010_13-55-23
247908003	960499	1	axc2	3/4/2010	15:29:41	OM_3-4-2010_13-55-23
247997001	960499	1	axc2	3/4/2010	15:30:34	OM_3-4-2010_13-55-23
248001001	960499	1	axc2	3/4/2010	15:31:29	OM_3-4-2010_13-55-23
248034001	960499	1	axc2	3/4/2010	15:32:22	OM_3-4-2010_13-55-23
248038001	960499	1	axc2	3/4/2010	15:33:15	OM_3-4-2010_13-55-23
1202060244	960499	1	axc2	3/4/2010	15:34:09	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:35:01	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:36:53	OM_3-4-2010_13-55-23
1202060246	960499	1	axc2	3/4/2010	15:38:42	OM_3-4-2010_13-55-23
1202060248	960499	1	axc2	3/4/2010	15:39:36	OM_3-4-2010_13-55-23
248038002	960499	1	axc2	3/4/2010	15:40:29	OM_3-4-2010_13-55-23
1202060245	960499	1	axc2	3/4/2010	15:41:22	OM_3-4-2010_13-55-23
1202060247	960499	1	axc2	3/4/2010	15:42:15	OM_3-4-2010_13-55-23
1202060249	960499	1	axc2	3/4/2010	15:43:07	OM_3-4-2010_13-55-23
248039001	960499	1	axc2	3/4/2010	15:44:01	OM_3-4-2010_13-55-23
248046001	960499	1	axc2	3/4/2010	15:44:52	OM_3-4-2010_13-55-23
248046002	960499	1	axc2	3/4/2010	15:45:45	OM_3-4-2010_13-55-23
248053001	960499	1	axc2	3/4/2010	15:46:39	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:47:31	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:49:22	OM_3-4-2010_13-55-23
248053002	960499	1	axc2	3/4/2010	15:51:13	OM_3-4-2010_13-55-23
248053003	960499	1	axc2	3/4/2010	15:52:07	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:52:59	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:54:49	OM_3-4-2010_13-55-23

Original Run Filename: OM_3-4-2010_13-55-23.OMN created 3/4/2010 13:55:23
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-4-2010_13-55-23.OMN last modified 3/4/2010 15:55:54
 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)				
WCN100304-01	1	S1	200	9.08	3/4/2010@13:58:46			200 ppb
WCN100304-02	1	S2	150	6.91	3/4/2010@13:59:38			150 ppb
WCN100304-03	1	S3	100	4.35	3/4/2010@14:00:30			100 ppb
WCN100304-04	1	S4	50.0	2.45	3/4/2010@14:01:23			50 ppb
WCN100304-05	1	S5	10.0	0.578	3/4/2010@14:02:16			10 ppb
WCN100304-06	1	S6	5.00	0.340	3/4/2010@14:03:10			CRDL 5.0 ppb
WCN100304-08	1	S7	0.00	0.0240	3/4/2010@14:04:04			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99948 > 0.99500					
Message			Pass					
Action			Continue					
WCN100304-07	1	S8	151	6.88	3/4/2010@14:05:55			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			0.8 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.8 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100304-08	1	S7	-1.31	0.0240	3/4/2010@14:07:45			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.31 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.31 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100304-06	1	S6	5.86	0.346	3/4/2010@14:09:35			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.86 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.86 > 2.50					
Message			Pass					
Action			None					
1202053284|957578|MB	1	1	-2.31	-0.0206	3/4/2010@14:11:25			
1202053291||LCS	1	2	18.3	0.904	3/4/2010@14:12:18		25.00	
247899001	1	3	-0.820	0.0461	3/4/2010@14:13:11			
1202053285||DUP	1	4	-0.872	0.0438	3/4/2010@14:14:05			
1202053287||MS	1	5	100	4.59	3/4/2010@14:14:58			
1202053289||MSD	1	6	99.8	4.57	3/4/2010@14:15:51			
247899002	1	7	1.56	0.153	3/4/2010@14:16:44			
1202053286||DUP	1	8	2.02	0.174	3/4/2010@14:17:36			
1202053288||MS	1	9	87.4	4.01	3/4/2010@14:18:29			
1202053290||MSD	1	10	94.8	4.35	3/4/2010@14:19:21			
WCN100304-03	1	S3	103	4.72	3/4/2010@14:20:13			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.1 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	3.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100304-08	1	S7	-1.38	0.0208	3/4/2010@14:22:04			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.38 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.38 > -5.00					
		Message	CCB Passed					
		Action	Continue					
247899003	1	11	-0.646	0.0540	3/4/2010@14:23:52			
247899004	1	12	-0.530	0.0592	3/4/2010@14:24:44			
247899005	1	13	-1.15	0.0313	3/4/2010@14:25:35			
247899006	1	14	0.280	0.0956	3/4/2010@14:26:28			
247899007	1	15	0.0899	0.0871	3/4/2010@14:27:19			
247899008	1	16	1.52	0.151	3/4/2010@14:28:13			
247899009	1	17	5.29	0.321	3/4/2010@14:29:06			
247899010	1	18	0.0677	0.0861	3/4/2010@14:29:59			
247899011	1	19	2.55	0.198	3/4/2010@14:30:53			
247899012	1	20	-0.401	0.0650	3/4/2010@14:31:46			
WCN100304-03	1	S3	104	4.77	3/4/2010@14:32:38			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					
WCN100304-08	1	S7	-1.42	0.0192	3/4/2010@14:34:28			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.42 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.42 > -5.00					
		Message	CCB Passed					
		Action	Continue					
247899013	1	21	1.98	0.172	3/4/2010@14:36:18			
247899014	1	22	-0.282	0.0703	3/4/2010@14:37:11			
247899015	1	23	-0.685	0.0522	3/4/2010@14:38:03			
247899016	1	24	-1.13	0.0322	3/4/2010@14:38:56			
247899017	1	25	0.385	0.100	3/4/2010@14:39:48			
247899018	1	26	-0.640	0.0543	3/4/2010@14:40:41			
247899019	1	27	0.0545	0.0855	3/4/2010@14:41:33			
247899020	1	28	1.88	0.168	3/4/2010@14:42:25			
1202053292|957580|MB	1	29	-1.43	0.0185	3/4/2010@14:43:17			
1202053299|LCS	1	30	18.7	0.924	3/4/2010@14:44:08		25.00	
WCN100304-03	1	S3	104	4.75	3/4/2010@14:45:01			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	3.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	3.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100304-08	1	S7	-1.45	0.0178	3/4/2010@14:46:51			CCB
		Known Conc:	0.00					

DQM Test: > + Concentration Limit						
Result:		-1.45 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.45 > -5.00				
Message		CCB Passed				
Action		Continue				
247907001	1	31	0.423	0.102	3/4/2010@14:48:41	
1202053293	DUP	1	32	3.32	0.232	3/4/2010@14:49:35
1202053295	MS	1	33	45.9	2.15	3/4/2010@14:50:28
1202053297	MSD	1	34	66.1	3.06	3/4/2010@14:51:22
247907002		1	35	-0.678	0.0526	3/4/2010@14:52:15
1202053294	DUP	1	36	-0.764	0.0487	3/4/2010@14:53:09
1202053296	MS	1	37	44.0	2.06	3/4/2010@14:54:02
1202053298	MSD	1	38	36.8	1.74	3/4/2010@14:54:55
247907003		1	39	147	6.70	3/4/2010@14:55:47
247907004		1	40	515	23.2	3/4/2010@14:56:40
WCN100304-03		1	S3	105	4.80	3/4/2010@14:57:33
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		4.8 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		4.8 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100304-08	1	S7	-0.946	0.0405	3/4/2010@14:59:22	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-0.946 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-0.946 > -5.00				
Message		CCB Passed				
Action		Continue				
1202053295	MS	1	33	48.1	2.24	3/4/2010@15:01:12
1202053298	MSD	1	38	41.0	1.93	3/4/2010@15:02:05
247907003		1	39	-0.540	0.0588	3/4/2010@15:02:58
247907004		1	40	-0.705	0.0513	3/4/2010@15:03:50
247907005		1	41	0.810	0.119	3/4/2010@15:04:43
247907006		1	42	-1.32	0.0235	3/4/2010@15:05:35
247907007		1	43	-0.570	0.0574	3/4/2010@15:06:28
247907008		1	44	0.767	0.118	3/4/2010@15:07:20
247907009		1	45	-1.10	0.0334	3/4/2010@15:08:11
247907010		1	46	-0.113	0.0779	3/4/2010@15:09:06
WCN100304-03		1	S3	103	4.72	3/4/2010@15:09:58
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		3.1 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		3.1 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100304-08	1	S7	-1.40	0.0200	3/4/2010@15:11:48	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.40 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.40 > -5.00				
Message		CCB Passed				
Action		Continue				

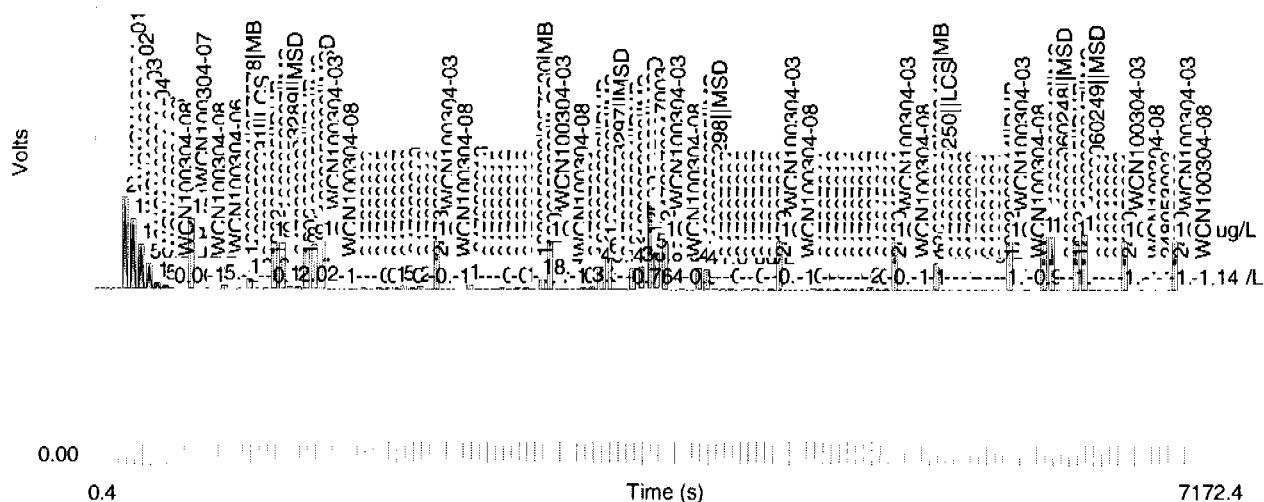
247907011	1	47	0.796	0.119	3/4/2010@15:13:39		
247907012	1	48	-0.529	0.0593	3/4/2010@15:14:32		
247907013	1	49	-0.631	0.0547	3/4/2010@15:15:27		
247907014	1	50	-1.12	0.0329	3/4/2010@15:16:20		
247907015	1	51	-0.547	0.0584	3/4/2010@15:17:13		
247907016	1	52	-0.602	0.0560	3/4/2010@15:18:07		
247907017	1	53	-0.0840	0.0793	3/4/2010@15:18:59		
248045012	1	54	2.35	0.189	3/4/2010@15:19:52		
248045013	1	55	0.0806	0.0867	3/4/2010@15:20:45		
248045014	1	56	-0.941	0.0407	3/4/2010@15:21:38		
WCN100304-03	1	S3	103	4.71	3/4/2010@15:22:30		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				
WCN100304-08	1	S7	-1.05	0.0360	3/4/2010@15:24:20		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				
1202060243|960499|MB	1	57	-1.44	0.0185	3/4/2010@15:26:09		
1202060250||LCS	1	58	54.7	2.54	3/4/2010@15:27:01		
247908001	1	59	-1.24	0.0273	3/4/2010@15:27:53		
247908002	1	60	-1.23	0.0275	3/4/2010@15:28:47		
247908003	1	61	-1.31	0.0241	3/4/2010@15:29:41		
247997001	1	62	-1.39	0.0205	3/4/2010@15:30:34		
248001001	1	63	-1.27	0.0260	3/4/2010@15:31:29		
248034001	1	64	-1.28	0.0256	3/4/2010@15:32:22		
248038001	1	65	-1.45	0.0180	3/4/2010@15:33:15		
1202060244||DUP	1	66	-1.77	0.00344	3/4/2010@15:34:09		
WCN100304-03	1	S3	103	4.72	3/4/2010@15:35:01		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.1 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.1 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100304-08	1	S7	-0.945	0.0405	3/4/2010@15:36:53		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.945 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.945 > -5.00				
Message			CCB Passed				
Action			Continue				
1202060246||MS	1	67	115	5.25	3/4/2010@15:38:42		
1202060248||MSD	1	68	113	5.14	3/4/2010@15:39:36		
248038002	1	69	-1.15	0.0315	3/4/2010@15:40:29		
1202060245||DUP	1	70	-1.85	-3.69e-4	3/4/2010@15:41:22		
1202060247||MS	1	71	106	4.86	3/4/2010@15:42:15		
1202060249||MSD	1	72	117	5.36	3/4/2010@15:43:07		
248039001	1	73	-0.969	0.0395	3/4/2010@15:44:01		
248046001	1	74	-1.39	0.0206	3/4/2010@15:44:52		

248046002	1	75	-1.19	0.0296	3/4/2010@15:45:45		
248053001	1	76	-1.46	0.0172	3/4/2010@15:46:39		
WCN100304-03	1	S3	105	4.80	3/4/2010@15:47:31		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				
WCN100304-08	1	S7	-1.39	0.0205	3/4/2010@15:49:22		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				
248053002	1	77	-1.84	3.13e-4	3/4/2010@15:51:13		
248053003	1	78	-1.69	0.00722	3/4/2010@15:52:07		
WCN100304-03	1	S3	104	4.77	3/4/2010@15:52:59		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			4.4 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			4.4 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100304-08	1	S7	-1.14	0.0318	3/4/2010@15:54:49		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.14 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.14 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_3-4-2010_13-55-23.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

3.97



	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.08	0.603	-0.2	3/4/2010	13:59:49
2	150	1	6.91	0.459	-1.3	3/4/2010	14:00:41
3	100	1	4.35	0.290	4.9	3/4/2010	14:01:33
4	50.0	1	2.45	0.161	-4.8	3/4/2010	14:02:26
5	10.0	1	0.578	0.0367	-7.9	3/4/2010	14:03:19
6	5.00	1	0.340	0.0210	-9.3	3/4/2010	14:04:13
7	0.00	1	0.0240	7.56e-4		3/4/2010	14:05:07

Peak Area(V.s)

9.08

0.00

TCYANIDE concentration, ug/L

200

Area = 0.0449 * Conc + 0.0865
Conc = 22.2 * Area - 1.85
Correlation Coefficient (r) = 0.99948

No Weighting