Columbia Analytical Services, Inc.
1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

April 1, 2011 Analytical Report for Service Request No: K1102593

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglar Kronquist/0907194.000.0901

Dear Melissa:

Enclosed are the results of the rush samples submitted to our laboratory on January 25, 2011. For your reference, these analyses have been assigned our service request number K1102593.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at MShelton@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Mike Shelton
Project Chemist

MS/ln

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	In accordance with the 2007 EPA Methods Update Rule published in the Federal Register, the holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Agency	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DEQ	WA100010
South Carolina DHEC	61002
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Exponent	**Service Request No.:**	K1102593
Project:	Heglar Kronquist	**Date Received:**	1/25/11
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two samples were received for analysis at Columbia Analytical Services on 1/25/11, original work order K1100661. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. After initial analysis the samples were stored at room temperature.

Dissolved Metals

Unpreserved sample was filtered and analyzed for dissolved metals. The original samples (field filtered) submitted under work order K1100661 were analyzed for dissolved metals but it was thought that some particulate may have been included with the original samples there we filtered unpreserved sample at the lab and tested again for dissolved metals.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Calcium for sample MW-2 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Approved by Mike Shaw **Date** 4/11/11

Metals

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent
Project Name: Heglar Kronquist
Project No.: 0907194.000.0901

Service Request: K1102593

Sample Name:	Lab Code:
MW-2D	K1102593-001DDISS
MW-2	K1102593-001DISS
MW-2S	K1102593-001SDISS
MW-4D	K1102593-002DDISS
MW-4	K1102593-002DISS
MW-4S	K1102593-002SDISS
Method Blank	K1102593-MB

Comments:

Approved By: _____ **Date:** 4/6/11

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Exponent	**Service Request:**	K1102593
Project No.:	0907194.000.0901	**Date Collected:**	1/24/2011
Project Name:	Heglar Kronquist	**Date Received:**	1/25/2011
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: MW-2 **Lab Code:** K1102593-001DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	03/30/11	03/31/11	6.7	J	
Arsenic	200.8	0.50	0.07	1.0	03/30/11	03/30/11	0.79		
Calcium	200.7	50.0	6.0	1.0	03/30/11	03/31/11	88500		
Iron	200.7	20.0	3.0	1.0	03/30/11	03/31/11	5.3	J	
Magnesium	200.7	20.0	2.0	1.0	03/30/11	03/31/11	28700		
Manganese	200.7	5.00	0.20	1.0	03/30/11	03/31/11	0.80	J	
Potassium	200.7	400	50	1.0	03/30/11	03/31/11	5710		
Sodium	200.7	200	20	1.0	03/30/11	03/31/11	25500		

% Solids: 0.0

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Exponent	**Service Request:**	K1102593
Project No.:	0907194.000.0901	**Date Collected:**	1/24/2011
Project Name:	Heglar Kronquist	**Date Received:**	1/25/2011
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: MW-4 **Lab Code:** K1102593-002DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	03/30/11	03/31/11	3.5	J	
Arsenic	200.8	0.50	0.07	1.0	03/30/11	03/30/11	0.60		
Calcium	200.7	50.0	6.0	1.0	03/30/11	03/31/11	168000		
Iron	200.7	20.0	3.0	1.0	03/30/11	03/31/11	3.0	U	
Magnesium	200.7	20.0	2.0	1.0	03/30/11	03/31/11	55100		
Manganese	200.7	5.00	0.20	1.0	03/30/11	03/31/11	123		
Potassium	200.7	400	50	1.0	03/30/11	03/31/11	29300		
Sodium	200.7	200	20	1.0	03/30/11	03/31/11	158000		

% Solids: 0.0

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Exponent	**Service Request:**	K1102593
Project No.:	0907194.000.0901	**Date Collected:**	
Project Name:	Heglar Kronquist	**Date Received:**	
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: Method Blank **Lab Code:** K1102593-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	03/30/11	03/31/11	2.0	J	
Arsenic	200.8	0.50	0.07	1.0	03/30/11	03/30/11	0.07	U	
Calcium	200.7	50.0	6.0	1.0	03/30/11	03/31/11	12.3	J	
Iron	200.7	20.0	3.0	1.0	03/30/11	03/31/11	3.0	U	
Magnesium	200.7	20.0	2.0	1.0	03/30/11	03/31/11	2.0	U	
Manganese	200.7	5.00	0.20	1.0	03/30/11	03/31/11	0.20	U	
Potassium	200.7	400	50	1.0	03/30/11	03/31/11	50	U	
Sodium	200.7	200	20	1.0	03/30/11	03/31/11	20	U	

% Solids: 0.0

Comments:

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	5148	103	10000	10260	103	10380	104	200.7
Arsenic	25.0	24.7	99	25.0	25.3	101	25.7	103	200.8
Calcium	12500	12530	100	10000	10030	100	10110	101	200.7
Iron	2500	2506	100	10000	10140	101	10090	101	200.7
Magnesium	12500	12430	99	10000	10020	100	10110	101	200.7
Magnesium	12500	12560	100	10000	10130	101	10030	100	200.7
Manganese	1250.0	1271.0	102	250.0	249.8	100	250.0	100	200.7
Potassium	12500	12450	100	10000	9986	100	9924	99	200.7
Sodium	12500	12510	100	10000	9957	100	9806	98	200.7

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	10470	105	9971	100	200.7
Arsenic				25.0	25.5	102			200.8
Calcium				10000	9808	98	9845	98	200.7
Iron				10000	9962	100	9734	97	200.7
Magnesium				10000	9777	98	9617	96	200.7
Magnesium				10000	10060	101	9966	100	200.7
Manganese				250.0	245.4	98	238.4	95	200.7
Potassium				10000	9853	99	9745	97	200.7
Sodium				10000	9662	97	9645	96	200.7

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				50	56	112		
Arsenic				0.50	0.52	104		
Iron				20	21	105		
Magnesium				20	16	80		
Manganese				5.0	5.2	104		
Potassium				400	382	96		

METALS

-3-

BLANKS

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum	2.0	U	2.0	U	2.0	U	2.0	U	200.7
Arsenic	0.07	U	0.07	U	0.07	U	0.07	U	200.8
Calcium	10.7	J	20.4	J	33.9	J	16.5	J	200.7
Iron	3.0	U	3.0	U	5.5	J	3.0	U	200.7
Magnesium	-6.3	J	-5.8	J	-2.1	J	-4.2	J	200.7
Manganese	0.3	J	0.2	U	0.2	J	0.2	U	200.7
Potassium	-79	J	50	U	-94	J	50	U	200.7
Sodium	56.1	J	37.0	J	-46.2	J	-84.1	J	200.7

METALS

-3-

BLANKS

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			2.0	U					200.7
Calcium			8.4	J					200.7
Iron			9.9	J					200.7
Magnesium			-5.1	J					200.7
Manganese			0.2	U					200.7
Potassium			50	U					200.7
Sodium			-35.8	J					200.7

METALS

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	372800	367200	73			
Calcium	500000	500000	465600	455500	91			
Iron	200000	200000	182200	178200	89			
Magnesium	500000	500000	484100	471500	94			
Manganese		500	0	487	97			
Potassium			-102	-18				
Sodium			-78	-135				

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

METALS

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-MS-02 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		25	0.09	25.0	100			

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client:	Exponent	**Service Request:**	K1102593
Project No.:	0907194.000.0901	**Units:**	UG/L
Project Name:	Heglar Kronquist	**Basis:**	NA
Matrix:	WATER	**% Solids:**	0.0

Sample Name: MW-2S **Lab Code:** K1102593-001SDISS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1940		6.7	J	2000.00	96.7		200.7
Calcium		97700		88500		10000.00	92.0		200.7
Iron	70 - 130	976		5.3	J	1000.00	97.1		200.7
Magnesium	70 - 130	38000		28700		10000.00	93.0		200.7
Manganese	70 - 130	483		0.80	J	500.00	96.4		200.7
Potassium	70 - 130	15700		5710		10000.00	99.9		200.7
Sodium	70 - 130	35300		25500		10000.00	98.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client:	Exponent	Service Request:	K1102593
Project No.:	0907194.000.0901	Units:	UG/L
Project Name:	Heglar Kronquist	Basis:	NA
Matrix:	WATER	% Solids:	0.0

Sample Name: MW-4S Lab Code: K1102593-002SDISS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	70 - 130	21.5		0.60		20.00	104.5		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

METALS

- 6 -

DUPLICATES

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Units: UG/L

Project Name: Heglar Kronquist

Basis: NA

Matrix: WATER

% Solids: 0.0

Sample Name: MW-2D

Lab Code: K1102593-001DDISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		6.7	J	3.8	J	55.2		200.7
Calcium	20	88500		88400		0.1		200.7
Iron		5.3	J	3.0	U	200.0		200.7
Magnesium	20	28700		28500		0.7		200.7
Manganese		0.80	J	0.80	J	0.0		200.7
Potassium	20	5710		5690		0.4		200.7
Sodium	20	25500		25300		0.8		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 6 -

DUPLICATES

Client:	Exponent	**Service Request:**	K1102593
Project No.:	0907194.000.0901	**Units:**	UG/L
Project Name:	Heglar Kronquist	**Basis:**	NA
Matrix:	WATER	**% Solids:**	0.0

Sample Name: MW-4D **Lab Code:** K1102593-002DDISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic		0.60		0.52		14.3		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

-7-

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	5140	102.8					
Arsenic	20	19.7	98.5					
Calcium	12500	12200	97.6					
Iron	2500	2410	96.4					
Magnesium	12500	12600	100.8					
Manganese	1250	1220	97.6					
Potassium	12500	12400	99.2					
Sodium	12500	12400	99.2					

METALS

-9-

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Units: UG/L

Project Name: Heglar Kronquist

Sample Name: MW-2L

Lab Code: K1102593-001LDISS

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6.7	J	20.0	J	198.5		P
Calcium	88480		92000		4.0		P
Iron	5.3	J	20.5	J	286.8		P
Magnesium	28680.0		29495.0		2.8		P
Manganese	0.8	J	1.0	J	25.0		P
Potassium	5712		5430		4.9		P
Sodium	25480		25180		1.2		P

METALS

- 10 -

DETECTION LIMITS

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP/ICP-MS ID #: K-ICP-MS-02

GFAA ID #: **AA ID #:**

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		0.5	0.07	MS

Comments:

METALS

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	394.4		50	2.0	P
Calcium	315.8		50	6.0	P
Iron	259.9		20	3.0	P
Magnesium	285.2		20	2.0	P
Manganese	257.6		5.0	0.2	P
Potassium	766.5		400	50	P
Sodium	589.5		200	20.0	P

Comments:

METALS

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co
Aluminum	394.401	0.0000000	0.0000880	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000290	0.0000000	-0.0001420	0.0000000	0.0000000
Arsenic	189.042	0.0000220	0.0000000	-0.0000580	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0002330	0.0000000	0.0016240
Cadmium	214.438	-0.0000001	0.0000000	0.0000330	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000220	-0.0000250	0.0000000	0.0004080
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000940	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000130	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	221.647	0.0000000	0.0000000	0.0000000	0.0000000	-0.0011700
Phosphorus	214.914	-0.0005540	0.0000000	0.0006550	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	-0.0001120	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0014540
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000210	0.0000000	0.0000000	0.0000320
Vanadium	292.402	0.0000000	0.0000000	-0.0000020	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Mn	Mo	Ni	P
Aluminum	394.401	0.0000000	0.0000000	0.0004350	0.0003100	0.0000000
Antimony	206.833	0.0173600	-0.0001330	0.0011910	0.0000000	0.0000000
Arsenic	189.042	0.0003470	-0.0001550	0.0005480	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	-0.0000300	-0.0001890	-0.0000190	0.0000000
Boron	249.678	0.0004530	0.0000000	-0.0008670	0.0000000	0.0000000
Cadmium	214.438	0.0000070	0.0000000	0.0000000	0.0000000	-0.0000010
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0001390	0.0000680	0.0000000	0.0000280
Cobalt	228.616	0.0000530	0.0000000	-0.0006430	0.0001340	0.0000000
Copper	327.396	0.0000000	0.0000600	0.0000770	0.0000330	0.0000000
Iron	259.94	0.0000000	0.0000000	-0.0002400	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0001340	-0.0010800	0.0001780	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	-0.0014420	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0000110	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	-0.0000270	0.0000000	-0.0000310	0.0000000
Nickel	221.647	-0.0005650	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	-0.0004110	0.0085820	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0006630	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0192220	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000390	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000080	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002570	0.0008680	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000410	0.0001300	0.0000000
Vanadium	292.402	0.0000000	-0.0027450	-0.0002030	0.0000000	0.0000000
Zinc	206.2	-0.0001020	0.0000000	0.0001650	0.0000000	0.0000000

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Si	Ti	V		
Aluminum	394.401	0.0000000	0.0000000	0.0005300		
Antimony	206.833	-0.0000210	0.0004780	0.0000000		
Arsenic	189.042	0.0000000	0.0000000	0.0000000		
Barium	455.403	0.0000000	0.0000000	0.0000280		
Beryllium	234.861	0.0000000	0.0000000	0.0000000		
Boron	249.678	0.0000000	0.0000000	-0.0001270		
Cadmium	214.438	0.0000000	0.0000000	0.0000000		
Calcium	393.366	0.0000000	0.0000000	0.0000000		
Chromium	267.716	0.0000000	0.0000590	-0.0000760		
Cobalt	228.616	0.0000000	0.0018150	0.0000000		
Copper	327.396	0.0000000	-0.0016790	-0.0000480		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.353	0.0002440	0.0000000	0.0000000		
Lithium	670.784	0.0000000	0.0000000	0.0000000		
Magnesium	285.213	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000	0.0000000		
Nickel	221.647	0.0002570	0.0000000	0.0000000		
Phosphorus	214.914	0.0000000	0.0000000	0.0000000		
Potassium	766.491	0.0000000	0.0000000	0.0000000		
Selenium	196.0	0.0000000	0.0000000	0.0000000		
Silicon	251.611	0.0000000	0.0000000	0.0000000		
Silver	328.068	0.0000000	-0.0000780	0.0000910		
Sodium	589.592	0.0000000	0.0000000	0.0000000		
Strontium	407.771	0.0000000	0.0000000	0.0000000		
Thallium	190.856	0.0000000	-0.0008960	-0.0007350		
Tin	189.989	0.0000000	-0.0007490	0.0000000		
Titanium	336.121	0.0000000	0.0000000	0.0000000		
Vanadium	292.402	0.0000000	0.0009490	0.0000000		
Zinc	206.2	0.0000000	0.0000000	0.0000000		

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
Aluminum	394.401					
Antimony	206.833					
Arsenic	189.042					
Barium	455.403					
Beryllium	234.861					
Boron	249.678					
Cadmium	214.438					
Calcium	393.366					
Chromium	267.716					
Cobalt	230.786					
Copper	327.396					
Iron	259.94					
Lead	220.353					
Lithium	670.784					
Magnesium	285.213					
Manganese	257.61					
Molybdenum	202.03					
Nickel	221.647					
Phosphorus	214.914					
Potassium	766.491					
Selenium	196.0					
Silicon	251.611					
Silver	328.068					
Sodium	589.592					
Strontium	407.771					
Thallium	190.856					
Tin	189.989					
Titanium	336.121					
Vanadium	292.402					
Zinc	213.856					

Comments:

METALS
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	15.000	900000	200.7
Calcium	15.000	900000	200.7
Iron	15.000	360000	200.7
Magnesium	15.000	540000	200.7
Manganese	15.000	9000	200.7
Potassium	15.000	900000	200.7
Sodium	15.000	900000	200.7

Comments:

METALS
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-MS-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	15.000	900	200.8

Comments:

METALS
-13-
PREPARATION LOG

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
K1102593-001DISS	3/30/2011	25.0	25.0
K1102593-002DDISS	3/30/2011	25.0	25.0
K1102593-002DISS	3/30/2011	25.0	25.0
K1102593-002SDISS	3/30/2011	25.0	25.0
K1102593-MB	3/30/2011	50.0	50.0
LCSW	3/30/2011	50.0	50.0

METALS
-13-
PREPARATION LOG

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1102593-001DDISS	3/30/2011	25.0	25.0
K1102593-001DISS	3/30/2011	25.0	25.0
K1102593-001SDISS	3/30/2011	25.0	25.0
K1102593-002DISS	3/30/2011	25.0	25.0
K1102593-MB	3/30/2011	50.0	50.0
LCSW	3/30/2011	50.0	50.0

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Run Number: 033011CMS02

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 3/30/2011

End Date: 3/30/2011

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
Cal. Blk	1.00	20:16				X																								
Cal. Stn	1.00	20:18				X																								
ICV1	1.00	20:21				X																								
CCV1	1.00	20:23				X																								
ICB1	1.00	20:25				X																								
CCB1	1.00	20:28				X																								
CRA	1.00	20:30				X																								
ICS-A1	1.00	20:32				X																								
ICS-AB1	1.00	20:35				X																								
K1102593-MB	1.00	20:37				X																								
LCSW	1.00	20:39				X																								
ZZZZZZ	1.00	20:42																												
ZZZZZZ	1.00	20:44																												
ZZZZZZ	1.00	20:46																												
ZZZZZZ	1.00	20:49																												
ZZZZZZ	1.00	20:51																												
ZZZZZZ	1.00	20:53																												
ZZZZZZ	1.00	20:56																												
ZZZZZZ	1.00	20:58																												
CCV2	1.00	21:00				X																								
CCB2	1.00	21:03				X																								
ZZZZZZ	1.00	21:05																												
ZZZZZZ	1.00	21:07																												
ZZZZZZ	1.00	21:10																												
K1102593-001DISS	1.00	21:12				X																								
K1102593-002DISS	1.00	21:14				X																								
K1102593-002DDISS	1.00	21:17				X																								
K1102593-002SDISS	1.00	21:19				X																								
ZZZZZZ	1.00	21:22																												
ZZZZZZ	1.00	21:24																												
ZZZZZZ	1.00	21:26																												
CCV3	1.00	21:29				X																								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent **Service Request:** K1102593

Project No.: 0907194.000.0901 **Run Number:** 033011CMS02

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-02 **Method:** MS

Start Date: 3/30/2011 **End Date:** 3/30/2011

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB3	1.00	21:31				X																								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Columbia Analytical Services

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Run Number: 033111BICP03

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 3/31/2011

End Date: 3/31/2011

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
BLK	1.00	13:55		X						X				X		X	X			X			X							
STD A	1.00	13:58															X													
STD B	1.00	14:02		X						X				X		X				X			X							
ICV1	1.00	14:05		X						X				X		X	X			X			X							
ZZZZZZ	1.00	14:08																												
ICB1	1.00	14:12		X						X				X		X	X			X			X							
CRA	1.00	14:15		X										X		X	X			X										
ZZZZZZ	1.00	14:19																												
ZZZZZZ	1.00	14:21																												
ZZZZZZ	1.00	14:25																												
ZZZZZZ	1.00	14:28																												
ZZZZZZ	1.00	14:32																												
CCV1	1.00	14:37															X													
CCV1	1.00	14:41		X						X				X		X				X			X							
CCB1	1.00	14:46		X						X				X		X	X			X			X							
ZZZZZZ	1.00	14:51																												
ICSA	1.00	14:55		X						X				X		X	X			X			X							
ICSAB	1.00	15:00		X						X				X		X	X			X			X							
ZZZZZZ	1.00	15:05																												
ZZZZZZ	1.00	15:08																												
ZZZZZZ	1.00	15:12																												
ZZZZZZ	1.00	15:16																												
ZZZZZZ	1.00	15:19																												
ZZZZZZ	1.00	15:22																												
ZZZZZZ	1.00	15:26																												
CCV2	1.00	15:29															X													
CCV2	1.00	15:32		X						X				X		X				X			X							
CCB2	1.00	15:36		X						X				X		X	X			X			X							
ZZZZZZ	1.00	15:41																												
ZZZZZZ	1.00	15:45																												
ZZZZZZ	1.00	15:49																												
ZZZZZZ	1.00	15:52																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1102593

Project No.: 0907194.000.0901

Run Number: 033111BICP03

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 3/31/2011

End Date: 3/31/2011

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:55																									
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	16:02																									
ZZZZZZ	1.00	16:05																									
ZZZZZZ	1.00	16:08																									
ZZZZZZ	1.00	16:12																									
CCV3	1.00	16:15															X										
CCV3	1.00	16:18		X						X				X		X				X			X				
CCB3	1.00	16:22		X						X				X		X	X			X			X				
K1102593-MB	1.00	16:25		X						X				X		X	X			X			X				
LCSW	1.00	16:27		X						X				X		X	X			X			X				
K1102593-001DISS	1.00	16:31		X						X				X		X	X			X			X				
K1102593-001DDISS	1.00	16:34		X						X				X		X	X			X			X				
K1102593-001LDISS	5.00	16:38		X						X				X		X	X			X			X				
K1102593-001SDISS	1.00	16:42		X						X				X		X	X			X			X				
K1102593-002DISS	1.00	16:46		X						X				X		X	X			X			X				
ZZZZZZ	1.00	16:49																									
ZZZZZZ	1.00	16:53																									
ZZZZZZ	1.00	16:56																									
CCV4	1.00	16:59															X										
CCV4	1.00	17:02		X						X				X		X				X			X				
CCB4	1.00	17:06		X						X				X		X	X			X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Columbia Analytical Services

Preparation Information Benchsheet

Prep Run: 131131
Team: Metals
Analyst: LJording
Prep Workflow: MetDigAqICP
Prep Method: EPA CLP-METALS ILM04.0
Rush/NPDES: RUSH
Status: Prepped
Current Step: Digestion
Prep Date: 03/30/2011 10:00
Due Date: 03/19/2011

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1102746-01	Method Blank		50 mL	50 mL			Metals D	1%HNO3,5%HCL
KQ1102746-02	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.5 mL 0.25 mL	20255 20797 25536 26786	Metals D	1%HNO3,5%HCL
K1102593-001	MW-2	.03	25 mL	25 mL			Metals D	1%HNO3,5%HCL
K1102593-001: KQ1102746-03	Duplicate	.03	25 mL	25 mL			Metals D	1%HNO3,5%HCL
K1102593-001: KQ1102746-04	Matrix Spike	.03	25 mL	25 mL	0.25 mL 0.25 mL 0.25 mL 0.25 mL	24706 25104 25344 25536	Metals D	1%HNO3,5%HCL
K1102593-002	MW-4	.03	25 mL	25 mL			Metals D	1%HNO3,5%HCL

6 Total Samples consisting of 2 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires
K-MET QCP-CICV-1	Spike	26786	12/1/2011
K-MET QCP-CICV-2	Spike	20797	8/1/2011
K-MET QCP-CICV-3	Spike	20255	8/1/2011
K-MET SS1	Spike	24706	11/1/2011

Name	Type	ID	Expires
K-MET SS3	Spike	25104	5/31/2011
K-MET SS4	Spike	25536	7/5/2011
K-MET SS5	Spike	25344	5/5/2011

Preparation Materials

Step	Name	ID
Digestion	K-MET 50ml Centrifuge Tube	22573
Digestion	K-MET HCL	26498

Step	Name	ID
Digestion	K-MET HNO3	26990

Preparation Hardware / Equipment

Step	Name	Property	Value	
Digestion	K-BlockDigester-06	Temperature	95	deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	30-MAR-11 10:00	30-MAR-11 12:00	LJording		N	

Comments

Review

Reviewed by: _____ Date: _____

Columbia Analytical Services, Inc.

Service Request Number(s): K1102593
Analysis for: Vacuum Filtration (Dissolved Metals)

Lab Code		Filtered Volume (ml)			Preservative	PH <2
Filter Blank		250			HNO3	
K1102593-001		↓			↓	↓
-002		↓			↓	↓
			3/28/11			

Comments:

Analyst:	Date: 3/28/11
Reviewed:	Date: 3/28/11

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Columbia Analytical Services™ **Preparation Information Benchsheet**

Prep Run: 131130
Team: Metals
Analyst: LJording

Prep Workflow: MetDigAqMS
Prep Method: EPA CLP-METALS ILM04.0
Rush/NPDES: RUSH

Status: Prepped
Current Step: Digestion

Prep Date: 03/30/2011 10:00
Due Date: 03/19/2011

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1102745-04	Method Blank		50 mL	50 mL			Metals D	1%Ultrex HNO3
KQ1102745-03	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	26520 27461	Metals D	1%Ultrex HNO3
K1102578-001	GW-1075	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-002	GW-1074	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-003	GW-1076	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-004	GW-1094	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-005	GW-1092	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-006	GW-1093	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-006: KQ1102745-11	Duplicate	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102578-006: KQ1102745-09	Matrix Spike	.04	50 mL	50 mL	1 mL 1 mL	26520 27461	Metals T	1%Ultrex HNO3
K1102578-007	GW-1091	.04	50 mL	50 mL			Metals T	1%Ultrex HNO3
K1102593-001	MW-2	.04	25 mL	25 mL			Metals D	1%Ultrex HNO3
K1102593-002	MW-4	.03	25 mL	25 mL			Metals D	1%Ultrex HNO3
K1102593-002: KQ1102745-07	Duplicate	.03	25 mL	25 mL			Metals D	1%Ultrex HNO3
K1102593-002: KQ1102745-08	Matrix Spike	.03	25 mL	25 mL	0.5 mL 0.5 mL	26520 27461	Metals D	1%Ultrex HNO3

15 Total Samples consisting of 9 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET 200.8 1000ug/L Stock	Spike	27461	7/31/2011	K-MET Ag 1000 ppb Stock	Spike	26520	7/18/2011

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3 ULTREX	21674	Digestion	K-MET 50ml Centrifuge Tube	22573

Preparation Hardware / Equipment

Step	Name	Property	Value	
	K-			

Digestion	BlockDigester-05	Temperature	96	deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	30-MAR-11 10:00	30-MAR-11 12:00	LJording		N	

Comments

Review

Reviewed by: _____ Date: _____

Service Request # K1102593
Instrument ID# K-ICP-AES-03

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	✓	
2. ICV within 10 % of true value	✓	
3. ICB below MRL	✓	
4. CRI/LLICV standard analyzed.	✓	
5. ICS standards within 20% of true value	✓	
6. All preceding CCVs within 10 % of true value	✓	
7. Following CCV within 10 % of true value	✓	
8. Bracketing CCBs below MRL	✓	
9. Method Blank below MRL	✓	
10. MS-MSD or Dup-MS and LCS within CAS control limits	✓	
11. All analytes within instrument linear range	✓	
12. Adequate rinse out time allowed between samples to eliminate memory effect	✓	
13. Run terminated early		✓

Comments:
StarLIMS Run # 240829 Saved under 033111BICP03
6010C Calibration. NR Cu2247, Li, Bi, S.
200.7: NR Zn2062, Ti.
~~6010C: LL Na=2X. TLL Ba, B, Fe, Mg=2X. NR TLL Si, Sr.~~ NA mmm 3/31/11
Report Cd2265, Cu3273, Zn2138.
Report Al3944, Ca3158, Mg2852.

Primary Review by mmm Date 3/31/11

Secondary Review by WS Date 4/1/11

Sample Name: BLK Acquired: 3/31/2011 13:55:27 Type: Cal
Method: 2011A(v5) Mode: IR Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0006**	**-65.74**	**6.041**	**3.651**	**.0501**	**-2.8197**	**239.8**
Stddev	.0001	7.05	.882	1.807	.0039	.9502	15.1
%RSD	9.679	10.73	14.61	49.50	7.825	33.698	6.289
#1	.0007	-70.73	5.417	2.373	.0473	-2.1479	229.1
#2	.0006	-60.75	6.664	4.928	.0529	-3.4916	250.4

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0012**	**.0003**	**.0007**	**.1375**	**.0000**	**.0008**	**.0007**
Stddev	.0004	.0003	.0015	.0052	.0001	.0005	.0001
%RSD	38.75	92.51	216.8	3.761	234.1	60.00	15.13
#1	.0015	.0006	-.0004	.1412	.0000	.0012	.0007
#2	.0008	.0001	.0018	.1338	.0001	.0005	.0008

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-53.61**	**-.0003**	**.0016**	**-.0013**	**.0137**	**5.525**	**.0002**
Stddev	.69	.0000	.0008	.0012	.0004	.035	.0000
%RSD	1.284	.0416	51.82	90.23	2.725	.6399	3.208
#1	-54.10	-.0003	.0021	-.0005	.0140	5.500	.0002
#2	-53.12	-.0003	.0010	-.0021	.0135	5.550	.0002

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**-.0002**	**.0003**	**47.35**	**2.078**	**5.392**	**239.9**
Stddev	.000	.0001	.0000	8.69	1.211	3.041	4.8
%RSD	84.26	50.04	2.955	18.35	58.25	56.39	2.010
#1	-.0001	-.0003	.0003	41.21	2.934	7.542	236.5
#2	.0000	-.0001	.0003	53.50	1.222	3.242	243.3

Sample Name: BLK Acquired: 3/31/2011 13:55:27 Type: Cal
Method: 2011A(v5) Mode: IR Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0005**	**.0005**	**6.108**	**4.288**	**4.650**	**.0021**
Stddev	.0002	.0001	.0000	2.184	.695	2.640	.0002
%RSD	138.2	16.35	.4626	35.75	16.21	56.77	11.11
#1	-.0003	.0006	.0005	4.564	4.779	6.517	.0023
#2	.0000	.0004	.0005	7.652	3.796	2.783	.0020

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0029**	**83.04**	**-.00425**	**.0022**	**-6.924**
Stddev	.0005	1.31	.00747	.0003	.305
%RSD	18.29	1.579	175.67	15.79	4.411
#1	-.0033	83.97	.00103	.0019	-6.708
#2	-.0025	82.11	-.00953	.0024	-7.140

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4842.3**	**104760.**	**1581.9**	**1284.2**
Stddev	19.8	34.	.7	3.1
%RSD	.40786	.03278	.04157	.24528
#1	4828.4	104740.	1582.4	1281.9
#2	4856.3	104790.	1581.4	1286.4

3/31/11

WS 4/1/11

Sample Name: STD A Acquired: 3/31/2011 13:58:51 Type: Cal
Method: 2011A(v5) Mode: IR Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-70-D

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Ca3933	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3609**	**468.1**	**52373.**	**4462.**	**11.99**	**2.723**	**11.57**	**.1167**
Stddev	.0009	.4	217.	18.	.05	.003	.00	.0003
%RSD	.2608	.0806	.41506	.3999	.3863	.1147	.0075	.2729
#1	.3602	468.4	52219.	4449.	11.96	2.721	11.57	.1165
#2	.3616	467.8	52527.	4474.	12.02	2.725	11.57	.1169

Elem	Co2307	Cu2247	Cu3273	Pb2203	Mg2795	Mn2576	Mo2020	Ni2216
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.7909**	**1.724**	**8475.**	**.7809**	**5.424**	**.5766**	**.6564**	**.7669**
Stddev	.0012	.007	36.	.0013	.046	.0017	.0016	.0019
%RSD	.1519	.4268	.4198	.1658	.8454	.3000	.2438	.2440
#1	.7900	1.718	8450.	.7800	5.391	.5754	.6553	.7655
#2	.7917	1.729	8500.	.7818	5.456	.5779	.6576	.7682

Elem	Se1960	Ag3280	Sn1899	V_2924	Zn2062	Zn2138	Ti3361	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**351.2**	**15170.**	**.5183**	**.1228**	**3.263**	**10500.**	**.4534**	**.4543**
Stddev	1.6	3.	.0039	.0002	.009	17.	.0001	.0006
%RSD	.4662	.0172	.7572	.1241	.2883	.1631	.0250	.1356
#1	350.0	15170.	.5155	.1229	3.256	10490.	.4534	.4539
#2	352.3	15170.	.5210	.1227	3.270	10510.	.4535	.4547

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4925.1**	**106280.**	**1627.5**	**1311.2**
Stddev	6.5	106.	8.4	2.4
%RSD	.13298	.09939	.51715	.18291
#1	4920.4	106350.	1633.5	1312.9
#2	4929.7	106200.	1621.6	1309.5

Sample Name: STD B Acquired: 3/31/2011 14:02:00 Type: Cal
Method: 2011A(v5) Mode: IR Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-69-A

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R **182100.**	**1310.**	**157.1**	**3.534**	**5.029**	**.8487**
Stddev	836.	4.	.3	.006	.028	.0009
%RSD	.4589	.3135	.1717	.1838	.5631	.1089
#1	181500.	1307.	157.0	3.530	5.009	.8494
#2	182700.	1313.	157.3	3.539	5.049	.8481

Elem	Mg2852	Mn2605	K_7664	Na5895	P_2149	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R **17740.**	**.0202**	**4569.**	**12440.**	**11080.**	**2445.**
Stddev	6.	.0001	1.	3.	4.	15.
%RSD	.0336	.4602	.0283	.0252	.0350	.6293
#1	17750.	.0202	4568.	12440.	11080.	2456.
#2	17740.	.0201	4570.	12440.	11070.	2434.

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11300.**	**27.521**	**.4337**	**658.2**
Stddev	33.	.002	.0000	.4
%RSD	.2957	.00785	.0083	.0562
#1	11270.	27.519	.4337	657.9
#2	11320.	27.522	.4336	658.5

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4853.6**	**102880.**	**1587.3**	**1209.9**
Stddev	2.1	223.	1.2	1.3
%RSD	.04395	.21666	.07365	.10642
#1	4855.1	102720.	1586.5	1210.9
#2	4852.1	103040.	1588.1	1209.0

Sample Name: ICV1 Acquired: 3/31/2011 14:05:29 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-78-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.273**	**5.148**	**2.503**	**2.553**	**4.947**	**.12678**	**.0080**	**1.305**
Stddev	.008	.034	.011	.007	.036	.00071	.0008	.001
%RSD	.1792	.6606	.4454	.2945	.7258	.56004	9.992	.0641
#1	4.267	5.172	2.495	2.548	4.922	.12729	.0075	1.304
#2	4.278	5.124	2.510	2.558	4.973	.12628	.0086	1.306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.260**	**12.53**	**12.47**	**.5185**	**1.254**	F **.6608**	**.6270**	**2.506**
Stddev	.002	.12	.16	.0002	.002	.0012	.0065	.016
%RSD	.1225	.9525	1.306	.0330	.1809	.1831	1.030	.6418
#1	1.259	12.44	12.35	.5186	1.252	.6599	.6316	2.495
#2	1.261	12.61	12.58	.5184	1.255	.6616	.6224	2.517
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.6250		
Range						5.000%		

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.611**	**12.43**	**12.39**	**12.56**	**1.271**	**1.236**	**2.062**	**1.257**
Stddev	.003	.22	.09	.04	.004	.000	.004	.001
%RSD	.1271	1.778	.7563	.3449	.3075	.0159	.2164	.0667
#1	2.609	12.27	12.33	12.60	1.273	1.236	2.058	1.256
#2	2.613	12.58	12.46	12.53	1.268	1.236	2.065	1.257
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV1 Acquired: 3/31/2011 14:05:29 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-78-C

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.45**	**2.498**	**.6112**	**12.51**	**.0016**	**1.293**	F **1.314**	**1.239**
Stddev	.12	.005	.0046	.11	.0009	.002	.000	.003
%RSD	.9443	.2086	.7468	.9068	55.75	.1633	.0329	.2178
#1	12.53	2.494	.6144	12.59	.0022	1.294	1.314	1.237
#2	12.37	2.502	.6080	12.43	.0009	1.291	1.314	1.241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
Value							1.250	
Range							5.000%	

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0142**	**-.0183**	F **2.133**	**2.612**	**-.0004**	**.00081**	**.0071**	**.0003**
Stddev	.0000	.0091	.002	.008	.0021	.00019	.0021	.0024
%RSD	.0506	49.69	.0902	.3010	526.4	23.219	29.00	860.7
#1	.0142	-.0119	2.134	2.606	.0011	.00068	.0086	-.0014
#2	.0142	-.0247	2.131	2.617	-.0019	.00095	.0057	.0020
Check ?	None	None	Chk Fail	Chk Pass	None	None	None	None
Value			2.000					
Range			5.000%					

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4880.9**	**104160.**	**1594.8**	**1248.1**
Stddev	2.1	124.	14.6	.6
%RSD	.04320	.11918	.91660	.04759
#1	4882.4	104250.	1605.1	1247.7
#2	4879.4	104070.	1584.4	1248.6

Sample Name: ICVB1 Acquired: 3/31/2011 14:08:39 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9947**	**1.053**	**.0056**	**.0042**	**.0005**	**-.00023**	**2.025**	**-.0004**
Stddev	.0032	.009	.0017	.0016	.0006	.00009	.005	.0001
%RSD	.3197	.8416	30.18	37.09	122.1	38.246	.2691	16.89
#1	.9924	1.046	.0068	.0053	.0008	-.00029	2.021	-.0003
#2	.9969	1.059	.0044	.0031	.0001	-.00016	2.028	-.0004
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**5.108**	**5.143**	**-.0013**	**-.0001**	**.0067**	**-.0009**	**10.05**
Stddev	.0000	.028	.036	.0002	.0002	.0002	.0001	.03
%RSD	39.33	.5467	.7074	14.42	137.9	3.148	15.61	.2982
#1	.0001	5.128	5.169	-.0011	-.0003	.0066	-.0010	10.07
#2	.0001	5.088	5.117	-.0014	.0000	.0068	-.0008	10.03
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**5.160**	**5.142**	**5.146**	**9.761**	**9.934**	**.0030**	**-.0030**
Stddev	.0010	.054	.032	.003	.115	.004	.0004	.0002
%RSD	101.0	1.047	.6238	.0565	1.177	.0413	12.60	7.623
#1	.0003	5.198	5.164	5.148	9.842	9.937	.0033	-.0028
#2	.0018	5.122	5.119	5.144	9.680	9.931	.0027	-.0032
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None
Value								
Range								

Sample Name: ICVB1 Acquired: 3/31/2011 14:08:39 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment:

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0081**	**.0030**	**-.0010**	**8.380**	**5.159**	**.0221**	**.0005**	**.0002**
Stddev	.0156	.0007	.0001	.023	.014	.0003	.0001	.0001
%RSD	193.6	22.29	13.72	.2764	.2684	1.188	29.43	75.79
#1	-.0191	.0034	-.0011	8.364	5.149	.0223	.0006	.0001
#2	.0030	.0025	-.0009	8.396	5.168	.0220	.0004	.0003
Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.077**	**5.145**	**.0002**	**-.0076**	F **1.296**	**1.9973**	**.0015**	**.0137**
Stddev	.008	.029	.0001	.0003	.003	.0131	.0008	.0020
%RSD	.1515	.5555	46.69	3.801	.1906	.65692	52.58	14.75
#1	5.071	5.124	.0003	-.0078	1.295	2.0066	.0021	.0152
#2	5.082	5.165	.0002	-.0073	1.298	1.9881	.0010	.0123
Check ?	Chk Pass	Chk Pass	None	None	Chk Fail	Chk Pass	None	None
Value					2.000			
Range					-5.000%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4909.4**	**104510.**	**1590.3**	**1264.3**
Stddev	7.7	560.	15.2	1.9
%RSD	.15654	.53540	.95497	.14737
#1	4914.8	104110.	1579.6	1265.7
#2	4903.9	104900.	1601.1	1263.0

Sample Name: ICB Acquired: 3/31/2011 14:12:52 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0005**	**.0001**	**.0011**	**-.0002**	**.00002**	**.0081**	**.0000**
Stddev	.0001	.0028	.0007	.0012	.0001	.00000	.0008	.0000
%RSD	30.90	602.3	488.8	113.3	72.66	23.753	9.834	9.516
#1	-.0004	.0025	.0006	.0002	-.0001	.00001	.0075	.0000
#2	-.0005	-.0015	-.0003	.0019	-.0003	.00002	.0086	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0107**	**-.0005**	**-.0002**	**-.0003**	**-.0004**	**-.0001**	**.0001**
Stddev	.0001	.0079	.0001	.0000	.0003	.0002	.0008	.0050
%RSD	70.92	74.00	24.84	.7040	88.38	69.81	566.4	3589.
#1	.0001	.0051	-.0006	-.0002	-.0001	-.0002	-.0007	.0036
#2	.0002	.0162	-.0004	-.0002	-.0005	-.0005	.0004	-.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0034**	**-.0006**	**-.0063**	**.0003**	**.0012**	**.0010**	**-.0001**
Stddev	.0011	.0400	.0000	.0031	.0000	.0014	.0002	.0001
%RSD	135.2	1193.	1.725	48.61	2.164	113.2	18.00	196.8
#1	.0000	-.0317	-.0006	-.0041	.0003	.0022	.0012	.0000
#2	.0017	.0250	-.0006	-.0085	.0003	.0002	.0009	-.0002
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 3/31/2011 14:12:52 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0792**	**-.0007**	**-.0003**	**.0561**	**.0015**	**.0002**	**-.0002**	**.0000**
Stddev	.0227	.0001	.0007	.0088	.0000	.0000	.0002	.0000
%RSD	28.69	7.726	250.5	15.65	2.405	9.793	95.35	486.8
#1	-.0631	-.0007	-.0008	.0499	.0015	.0002	-.0001	.0000
#2	-.0953	-.0008	.0002	.0623	.0016	.0001	-.0003	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**-.0244**	**.0000**	**.0017**	**.0003**	**.00018**	**.0014**	**.0019**
Stddev	.0053	.0119	.0000	.0004	.0006	.00025	.0004	.0013
%RSD	96.30	48.69	97.18	24.03	222.5	137.01	27.76	68.88
#1	.0092	-.0160	.0000	.0014	-.0002	.00035	.0012	.0010
#2	.0017	-.0329	.0001	.0019	.0007	.00001	.0017	.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4914.0**	**105380.**	**1588.3**	**1306.5**
Stddev	3.6	78.	5.3	1.0
%RSD	.07299	.07359	.33368	.07947
#1	4916.5	105330.	1584.6	1307.2
#2	4911.5	105440.	1592.0	1305.7

Sample Name: LLICV Acquired: 3/31/2011 14:15:29 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-79-A 0.5/50

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0520**	**.0559**	**.0541**	**.1056**	**.0045**	**.00518**	**.0626**	**.0051**
Stddev	.0001	.0009	.0007	.0007	.0017	.00003	.0003	.0000
%RSD	.1077	1.590	1.269	.6472	38.10	.56002	.4058	.1205
#1	.0520	.0553	.0545	.1060	.0057	.00516	.0628	.0051
#2	.0519	.0565	.0536	.1051	.0033	.00521	.0625	.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

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Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051**	F **.0760**	**.0517**	**.0045**	**.0100**	**.0099**	**.0097**	**.0211**
Stddev	.0001	.0008	.0002	.0003	.0001	.0005	.0004	.0077
%RSD	.9899	1.014	.4294	6.673	1.362	4.792	3.710	36.45
#1	.0051	.0766	.0516	.0047	.0099	.0095	.0100	.0157
#2	.0052	.0755	.0519	.0043	.0101	.0102	.0095	.0266
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0500						
Range		30.00%						

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0530**	**.0621**	**.0203**	**.0163**	**.0052**	**.0048**	**.0108**	**.0204**
Stddev	.0012	.0296	.0002	.0014	.0001	.0012	.0002	.0002
%RSD	2.219	47.69	.8967	8.823	.9735	25.13	2.210	.8246
#1	.0521	.0411	.0202	.0153	.0052	.0039	.0106	.0203
#2	.0538	.0830	.0204	.0173	.0052	.0057	.0110	.0206
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: LLICV Acquired: 3/31/2011 14:15:29 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-79-A 0.5/50

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Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3817**	**.1053**	**.0103**	F **.2619**	**.0531**	**.0102**	**.0104**	**.0106**
Stddev	.0682	.0014	.0008	.0231	.0005	.0000	.0001	.0001
%RSD	17.86	1.347	7.321	8.802	.9711	.0066	1.107	.6119
#1	.4299	.1063	.0108	.2782	.0527	.0102	.0103	.0105
#2	.3335	.1043	.0098	.2456	.0534	.0102	.0104	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.2000				
Range				30.00%				

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2114**	**.3811**	**.0104**	**.1059**	F **.0056**	**.01050**	**-.0006**	**.0005**
Stddev	.0014	.0047	.0001	.0008	.0046	.00012	.0019	.0027
%RSD	.6636	1.230	.5225	.7657	81.72	1.1219	315.9	528.3
#1	.2123	.3844	.0104	.1053	.0024	.01041	.0007	.0024
#2	.2104	.3778	.0104	.1064	.0089	.01058	-.0019	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	None
Value					.0100			
Range					-30.00%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4975.9**	**107510.**	**1613.9**	**1318.9**
Stddev	22.5	544.	17.0	9.1
%RSD	.45131	.50601	1.0504	.68751
#1	4991.8	107890.	1625.9	1325.3
#2	4960.0	107120.	1601.9	1312.5

Sample Name: LLICV Acquired: 3/31/2011 14:19:03 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0522**	**.0571**	**.0542**	**.1065**	**.0048**	**.00523**	**.0612**	**.0051**
Stddev	.0004	.0007	.0009	.0018	.0010	.00001	.0011	.0000
%RSD	.7668	1.142	1.591	1.721	21.31	.18609	1.838	.0871
#1	.0525	.0575	.0535	.1052	.0056	.00524	.0620	.0051
#2	.0519	.0566	.0548	.1078	.0041	.00522	.0604	.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	F **.0727**	**.0527**	**.0055**	**.0106**	**.0103**	**.0108**	F **.0288**
Stddev	.0000	.0005	.0003	.0001	.0002	.0002	.0003	.0036
%RSD	.6700	.6879	.6475	1.202	1.843	1.837	2.339	12.53
#1	.0052	.0731	.0529	.0055	.0107	.0104	.0106	.0313
#2	.0052	.0724	.0525	.0055	.0104	.0101	.0110	.0262
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0500						.0200
Range		30.00%						30.00%

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0519**	**.0503**	**.0207**	F **.0127**	**.0053**	**.0068**	**.0106**	**.0206**
Stddev	.0000	.0159	.0001	.0077	.0000	.0001	.0001	.0000
%RSD	.0413	31.64	.5045	60.20	.6878	1.914	1.244	.0360
#1	.0519	.0391	.0208	.0073	.0053	.0069	.0107	.0206
#2	.0519	.0616	.0207	.0181	.0053	.0067	.0105	.0206
Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
Value				.0200				
Range				-30.00%				

Sample Name: LLICV Acquired: 3/31/2011 14:19:03 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2824**	**.1049**	**.0102**	**.2221**	**.0524**	**.0098**	**.0104**	**.0107**
Stddev	.0173	.0013	.0000	.0634	.0010	.0001	.0001	.0000
%RSD	6.134	1.286	.1057	28.57	1.869	1.138	1.232	.3347
#1	.2946	.1059	.0102	.1772	.0531	.0098	.0103	.0106
#2	.2701	.1040	.0102	.2669	.0517	.0097	.0105	.0107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2101**	**.3836**	**.0105**	**.1066**	F **.0070**	**.01027**	**.0015**	**.0003**
Stddev	.0007	.0084	.0002	.0006	.0016	.00018	.0010	.0034
%RSD	.3292	2.190	1.916	.5657	23.02	1.7210	65.64	978.2
#1	.2106	.3896	.0103	.1062	.0058	.01015	.0022	-.0020
#2	.2097	.3777	.0106	.1070	.0081	.01040	.0008	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	None
Value					.0100			
Range					-30.00%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4956.4**	**106280.**	**1600.2**	**1317.7**
Stddev	10.9	78.	10.4	4.9
%RSD	.21967	.07307	.65178	.37217
#1	4948.7	106330.	1592.8	1314.2
#2	4964.1	106220.	1607.6	1321.2

Sample Name: TLLICV Acquired: 3/31/2011 14:21:58 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-69-A 0.5/50

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0034**	**.0111**	**.0112**	F **.0027**	**.00019**	F **.0155**
Stddev	.0001	.0010	.0011	.0022	.0000	.00009	.0007
%RSD	4.763	30.23	9.541	19.68	.8122	48.555	4.301
#1	.0014	.0041	.0103	.0096	.0027	.00013	.0150
#2	.0016	.0026	.0118	.0127	.0027	.00026	.0160
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value					.0020		.0100
Range					30.00%		30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	**.0334**	**.0037**	**.0018**	**.0007**	**.0018**
Stddev	.0000	.0000	.0123	.0001	.0000	.0000	.0001
%RSD	5.568	2.885	36.89	1.943	.3475	2.236	4.765
#1	.0005	.0005	.0247	.0036	.0018	.0007	.0019
#2	.0004	.0005	.0421	.0037	.0018	.0008	.0018
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	F **.0156**	**.0107**	**-.0019**	F **.0012**	**-.0010**	F **.0008**
Stddev	.0008	.0054	.0011	.0190	.0001	.0010	.0000
%RSD	37.88	34.89	10.61	987.2	4.737	97.01	5.690
#1	.0016	.0117	.0099	.0115	.0012	-.0017	.0009
#2	.0028	.0194	.0115	-.0154	.0012	-.0003	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Fail	None	Chk Fail
Value		.0100			.0020		.0006
Range		30.00%			-30.00%		30.00%

3/31/11

Sample Name: TLLICV Acquired: 3/31/2011 14:21:58 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-69-A 0.5/50

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**.0024**	**.0022**	F **.0603**	**.0200**	**.0016**	F **.1111**
Stddev	.0012	.0001	.0003	.0751	.0014	.0001	.0050
%RSD	160.3	2.625	11.67	124.4	6.921	7.093	4.529
#1	-.0016	.0024	.0020	.0072	.0190	.0015	.1075
#2	.0001	.0025	.0024	.1134	.0210	.0017	.1146
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value				.1000			.2000
Range				-30.00%			-30.00%

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0101**	F **.0013**	**.0019**	**.0021**	**.0219**	F **.0259**	**.0011**
Stddev	.0009	.0003	.0001	.0000	.0009	.0064	.0000
%RSD	9.432	23.63	4.291	.3583	3.935	24.61	3.689
#1	.0094	.0016	.0018	.0021	.0225	.0304	.0010
#2	.0107	.0011	.0019	.0021	.0213	.0214	.0011
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.0020				.0500	
Range		-30.00%				-30.00%	

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0117**	F **.0036**	F **.00057**	**.0555**	**.0552**
Stddev	.0005	.0004	.00002	.0012	.0029
%RSD	3.983	10.15	3.1253	2.158	5.328
#1	.0113	.0038	.00058	.0563	.0531
#2	.0120	.0033	.00056	.0546	.0573
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value		.0100	.00020		
Range		-30.00%	30.000%		

3/31/11

Sample Name: TLLICV Acquired: 3/31/2011 14:21:58 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-69-A 0.5/50

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4955.3	106590.	1597.7	1322.1
Stddev	7.6	37.	3.0	6.3
%RSD	.15367	.03449	.18721	.47760
#1	4960.7	106560.	1595.6	1326.6
#2	4949.9	106620.	1599.8	1317.6

3/31/11

Sample Name: TLLICV Acquired: 3/31/2011 14:25:42 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0024**	**.0123**	**.0121**	F **.0027**	**.00020**	**.0129**
Stddev	.0001	.0005	.0011	.0009	.0001	.00001	.0012
%RSD	7.982	20.51	9.120	7.127	3.069	6.5952	9.346
#1	.0014	.0021	.0131	.0115	.0026	.00021	.0137
#2	.0016	.0028	.0115	.0127	.0027	.00019	.0120
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					.0020		
Range					30.00%		

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	**.0195**	**.0039**	**.0018**	**.0007**	**.0023**
Stddev	.0000	.0000	.0093	.0001	.0002	.0001	.0000
%RSD	3.013	1.585	47.54	1.885	10.17	8.015	2.011
#1	.0005	.0005	.0260	.0040	.0020	.0007	.0023
#2	.0005	.0005	.0129	.0039	.0017	.0008	.0023
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	F **.0144**	**.0104**	**-.0278**	F **.0014**	**-.0006**	**.0007**
Stddev	.0008	.0051	.0004	.0120	.0002	.0054	.0000
%RSD	37.14	35.24	3.849	43.30	13.44	836.6	1.909
#1	.0017	.0180	.0106	-.0193	.0015	-.0045	.0007
#2	.0029	.0108	.0101	-.0363	.0013	.0032	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Fail	None	Chk Pass
Value		.0100			.0020		
Range		30.00%			-30.00%		

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Sample Name: TLLICV Acquired: 3/31/2011 14:25:42 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0025**	**.0021**	**.0893**	**.0191**	**.0021**	**.1516**
Stddev	.0002	.0001	.0001	.1105	.0012	.0002	.0293
%RSD	47.38	3.570	6.687	123.8	6.318	7.669	19.35
#1	.0003	.0025	.0020	.1674	.0183	.0022	.1309
#2	.0005	.0024	.0022	.0111	.0200	.0020	.1724
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109**	**.0015**	**.0020**	**.0021**	**.0214**	F **.0099**	**.0010**
Stddev	.0008	.0002	.0000	.0000	.0041	.0186	.0001
%RSD	7.298	9.977	2.363	.8438	19.33	187.4	10.68
#1	.0115	.0016	.0019	.0021	.0243	.0231	.0010
#2	.0104	.0014	.0020	.0021	.0185	-.0032	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						.0500	
Range						-30.00%	

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0108**	F **.0042**	F **.00031**	**.0562**	**.0546**
Stddev	.0003	.0057	.00022	.0024	.0013
%RSD	2.391	136.2	70.545	4.223	2.472
#1	.0107	.0002	.00016	.0579	.0537
#2	.0110	.0082	.00047	.0546	.0556
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value		.0100	.00020		
Range		-30.00%	30.000%		

Sample Name: TLLICV Acquired: 3/31/2011 14:25:42 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4913.1	105850.	1578.9	1304.6
Stddev	11.6	295.	9.2	2.8
%RSD	.23708	.27901	.57998	.21801
#1	4904.9	106060.	1572.4	1302.6
#2	4921.4	105640.	1585.3	1306.6

Sample Name: TLLICV 2X Acquired: 3/31/2011 14:28:54 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-67-A 1/50

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0034**	**.0219**	**.0212**	**.0034**	**.00044**	**.0224**
Stddev	.0001	.0013	.0035	.0030	.0008	.00006	.0007
%RSD	3.058	36.85	16.00	14.26	21.79	13.018	3.093
#1	.0034	.0043	.0243	.0190	.0040	.00048	.0229
#2	.0035	.0025	.0194	.0233	.0029	.00040	.0219
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0010**	**.0234**	**.0078**	**.0039**	**.0017**	**.0039**
Stddev	.0000	.0001	.0237	.0002	.0001	.0001	.0000
%RSD	1.147	10.64	101.3	2.628	2.000	6.318	.8523
#1	.0010	.0009	.0402	.0079	.0040	.0016	.0039
#2	.0009	.0011	.0066	.0076	.0038	.0018	.0038
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0140**	**.0189**	**.0256**	**.0033**	**.0009**	**.0014**
Stddev	.0003	.0005	.0004	.0244	.0000	.0095	.0000
%RSD	7.364	3.914	1.868	95.38	.9631	1085.	2.992
#1	.0039	.0144	.0187	.0428	.0034	.0076	.0014
#2	.0035	.0137	.0192	.0083	.0033	-.0058	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
Value							
Range							

Sample Name: TLLICV 2X Acquired: 3/31/2011 14:28:54 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-67-A 1/50

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**.0039**	**.0041**	**.1568**	**.0389**	**.0044**	**.2970**
Stddev	.0002	.0001	.0000	.0043	.0018	.0005	.0057
%RSD	6.224	2.140	.2796	2.767	4.558	11.18	1.928
#1	.0030	.0039	.0041	.1538	.0376	.0041	.3010
#2	.0032	.0040	.0042	.1599	.0401	.0047	.2929
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0202**	**.0043**	**.0040**	**.0041**	**.0424**	F **.0522**	**.0017**
Stddev	.0001	.0002	.0001	.0000	.0010	.0176	.0001
%RSD	.3105	4.703	1.436	.6098	2.429	33.76	5.666
#1	.0202	.0042	.0040	.0041	.0431	.0647	.0018
#2	.0201	.0045	.0040	.0041	.0417	.0398	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						.1000	
Range						-30.00%	

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0212**	F **.0086**	F **.00062**	**.1095**	**.1064**
Stddev	.0021	.0025	.00002	.0001	.0012
%RSD	10.14	29.00	3.2594	.0581	1.089
#1	.0227	.0068	.00060	.1094	.1072
#2	.0196	.0104	.00063	.1095	.1055
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value		.0200	.00040		
Range		-30.00%	30.000%		

Sample Name: TLLICV 2X Acquired: 3/31/2011 14:28:54 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-67-A 1/50

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4951.7	106320.	1608.8	1324.0
Stddev	17.0	328.	14.1	5.5
%RSD	.34250	.30852	.87402	.41837
#1	4939.7	106550.	1598.8	1320.1
#2	4963.7	106090.	1618.7	1327.9

Sample Name: CCVA1 Acquired: 3/31/2011 14:32:18 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2480**	**.2658**	**.2510**	**.2508**	**.2518**	**.24873**	**.2500**	**.2468**
Stddev	.0009	.0019	.0008	.0006	.0173	.00077	.0020	.0010
%RSD	.3753	.7019	.3171	.2238	6.880	.30790	.7830	.4228
#1	.2490	.2674	.2500	.2514	.2450	.24909	.2510	.2475
#2	.2473	.2634	.2516	.2508	.2777	.24801	.2490	.2456
#3	.2471	.2671	.2516	.2500	.2433	.24963	.2523	.2461
#4	.2486	.2655	.2505	.2509	.2412	.24818	.2479	.2478
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2458**	**.2766**	**.2580**	**.2479**	**.2471**	**.2464**	**.2503**	**.2668**
Stddev	.0006	.0354	.0186	.0007	.0006	.0005	.0014	.0136
%RSD	.2330	12.81	7.220	.2652	.2521	.2055	.5748	5.098
#1	.2459	.2646	.2508	.2484	.2474	.2466	.2510	.2657
#2	.2461	.3293	.2857	.2484	.2469	.2457	.2484	.2861
#3	.2450	.2580	.2499	.2471	.2463	.2465	.2517	.2605
#4	.2463	.2544	.2456	.2476	.2477	.2468	.2502	.2549
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Reviewed RSD 3/31/11

Sample Name: CCVA1 Acquired: 3/31/2011 14:32:18 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2476**	**.2399**	**.2594**	**.2512**	**.2470**	**.2441**	**.2456**	**.2479**
Stddev	.0012	.0438	.0182	.0060	.0010	.0046	.0009	.0005
%RSD	.4974	18.27	7.015	2.403	.4248	1.888	.3556	.2174
#1	.2485	.2956	.2526	.2476	.2485	.2419	.2458	.2482
#2	.2457	.2533	.2866	.2595	.2461	.2510	.2453	.2477
#3	.2480	.1986	.2509	.2515	.2465	.2419	.2445	.2472
#4	.2480	.2121	.2477	.2461	.2471	.2416	.2466	.2484
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.375**	**.2494**	**.2500**	**.1926**	**.2492**	**.2484**	**.2481**	**.2493**
Stddev	.133	.0010	.0013	.0411	.0013	.0013	.0013	.0008
%RSD	5.591	.3916	.5359	21.35	.5348	.5033	.5418	.3106
#1	2.278	.2489	.2508	.1634	.2485	.2493	.2479	.2491
#2	2.505	.2503	.2484	.2499	.2487	.2470	.2467	.2502
#3	2.244	.2483	.2513	.1952	.2484	.2477	.2479	.2483
#4	2.472	.2502	.2493	.1620	.2512	.2496	.2500	.2495
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

3/31/11

Sample Name: CCVA1 Acquired: 3/31/2011 14:32:18 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.1061**	**.2475**	**.2493**	**-.0033**	**.00028**	**.0016**	**.0042**
Stddev	.0016	.0145	.0003	.0018	.0020	.00009	.0022	.0009
%RSD	2034.	13.65	.1330	.7240	62.12	31.046	133.8	20.81
#1	.0019	.1255	.2479	.2470	-.0061	.00022	-.0004	.0049
#2	.0010	.0915	.2476	.2487	-.0034	.00029	.0024	.0036
#3	-.0017	.0999	.2471	.2505	-.0021	.00040	.0043	.0051
#4	-.0009	.1075	.2473	.2509	-.0015	.00021	.0002	.0034
Check ?	None	None	Chk Pass	Chk Pass	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4985.2**	**107210.**	**1571.1**	**1321.6**
Stddev	10.6	235.	78.6	5.2
%RSD	.21297	.21880	5.0055	.39292
#1	4976.1	107150.	1596.1	1318.8
#2	4997.1	107210.	1454.7	1328.9
#3	4991.2	107520.	1605.9	1321.7
#4	4976.4	106960.	1627.5	1317.1

3/31/11

Sample Name: CCVA1 Acquired: 3/31/2011 14:37:06 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2503**	**.2696**	**.2514**	**.2487**	**.2439**	**.25099**	**.2528**	**.2499**
Stddev	.0012	.0017	.0002	.0017	.0020	.00087	.0013	.0009
%RSD	.4797	.6345	.0598	.6680	.8393	.34767	.5247	.3716
#1	.2503	.2700	.2515	.2476	.2415	.25182	.2531	.2503
#2	.2488	.2696	.2514	.2475	.2430	.24995	.2519	.2491
#3	.2517	.2674	.2516	.2511	.2447	.25160	.2546	.2492
#4	.2506	.2715	.2512	.2486	.2463	.25060	.2517	.2510
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2492**	**.2710**	**.2506**	**.2511**	**.2511**	**.2495**	**.2517**	**.2491**
Stddev	.0011	.0072	.0025	.0005	.0012	.0008	.0014	.0041
%RSD	.4505	2.652	.9810	.2147	.4903	.3219	.5476	1.665
#1	.2491	.2607	.2471	.2504	.2507	.2505	.2535	.2454
#2	.2477	.2715	.2510	.2515	.2496	.2489	.2501	.2516
#3	.2501	.2755	.2521	.2510	.2525	.2488	.2515	.2536
#4	.2500	.2763	.2524	.2516	.2516	.2497	.2518	.2457
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: CCVA1 Acquired: 3/31/2011 14:37:06 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2514**	**.2366**	**.2503**	**.2445**	**.2498**	**.2412**	**.2490**	**.2520**
Stddev	.0027	.0170	.0022	.0023	.0010	.0017	.0008	.0007
%RSD	1.073	7.198	.8804	.9216	.3915	.7163	.3377	.2754
#1	.2513	.2554	.2474	.2440	.2506	.2422	.2486	.2511
#2	.2481	.2464	.2499	.2456	.2500	.2409	.2480	.2518
#3	.2514	.2244	.2526	.2468	.2484	.2429	.2500	.2521
#4	.2547	.2201	.2512	.2416	.2501	.2390	.2491	.2528
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.357**	**.2498**	**.2518**	**.1889**	**.2542**	**.2511**	**.2517**	**.2493**
Stddev	.061	.0012	.0015	.0238	.0018	.0010	.0011	.0003
%RSD	2.585	.4642	.5831	12.60	.7247	.4176	.4486	.1056
#1	2.317	.2515	.2529	.1642	.2536	.2517	.2514	.2492
#2	2.359	.2488	.2500	.1732	.2523	.2506	.2508	.2495
#3	2.442	.2493	.2514	.2050	.2542	.2499	.2513	.2495
#4	2.310	.2495	.2531	.2130	.2567	.2523	.2534	.2490
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA1 Acquired: 3/31/2011 14:37:06 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.0907**	**.2510**	**.2544**	**-.0023**	**-.00005**	**.0031**	**.0035**
Stddev	.0006	.0101	.0007	.0027	.0036	.00014	.0013	.0011
%RSD	20.94	11.12	.2595	1.049	154.7	272.45	40.79	30.01
#1	.0028	.0758	.2511	.2539	.0007	.00008	.0020	.0049
#2	.0035	.0935	.2516	.2518	-.0009	-.00019	.0022	.0023
#3	.0023	.0957	.2501	.2535	-.0076	-.00015	.0036	.0033
#4	.0022	.0978	.2512	.2581	-.0015	.00006	.0047	.0037
Check ?	None	None	Chk Pass	Chk Pass	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4934.0**	**106520.**	**1604.4**	**1305.8**
Stddev	20.7	302.	6.4	5.9
%RSD	.41869	.28327	.39638	.44931
#1	4928.0	106420.	1613.0	1303.8
#2	4964.7	106230.	1597.6	1311.9
#3	4921.5	106940.	1603.3	1308.9
#4	4921.9	106490.	1603.7	1298.5

Sample Name: CCVB1 Acquired: 3/31/2011 14:41:00 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.215**	**10.26**	**.0000**	**1.007**	**10.10**	**-.00004**	**.0053**	**-.0004**
Stddev	.145	.08	.0023	.008	.05	.00004	.0005	.0000
%RSD	2.017	.7571	23950.	.7699	.4980	112.28	10.02	12.21
#1	7.230	10.37	.0030	1.005	10.13	.00000	.0060	-.0004
#2	7.416	10.24	.0004	1.018	10.16	-.00002	.0049	-.0005
#3	7.113	10.21	-.0023	1.001	10.07	-.00009	.0054	-.0004
#4	7.102	10.21	-.0011	1.003	10.05	-.00004	.0048	-.0004
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**10.03**	**9.991**	**.0004**	**.0002**	**.0070**	**.0001**	**10.14**
Stddev	.0001	.03	.081	.0003	.0004	.0002	.0005	.05
%RSD	137.5	.3370	.8058	70.66	209.6	3.322	521.5	.4957
#1	.0001	10.05	9.871	.0000	.0004	.0072	-.0003	10.13
#2	.0001	10.06	10.03	.0004	.0006	.0071	-.0004	10.21
#3	.0000	10.03	10.03	.0006	.0000	.0067	.0005	10.09
#4	.0000	9.982	10.04	.0008	-.0003	.0068	.0006	10.14
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Sample Name: CCVB1 Acquired: 3/31/2011 14:41:00 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**10.02**	**10.03**	**10.13**	**1.033**	**1.009**	**.0004**	**-.0061**
Stddev	.0005	.04	.04	.08	.006	.006	.0001	.0001
%RSD	301.9	.4416	.4482	.8312	.5652	.6086	12.35	.8369
#1	.0007	9.999	10.05	10.17	1.038	1.017	.0005	-.0061
#2	.0004	10.09	10.08	10.16	1.025	1.011	.0004	-.0062
#3	-.0004	9.997	10.00	10.19	1.036	1.005	.0005	-.0061
#4	-.0001	9.999	9.985	10.01	1.032	1.004	.0004	-.0062
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.986**	**-.0011**	**-.0006**	**9.957**	**.0006**	**.0025**	**.0000**	**-.0003**
Stddev	.103	.0014	.0002	.050	.0007	.0002	.0001	.0001
%RSD	1.035	121.2	39.10	.5044	112.2	6.047	20510.	32.69
#1	10.13	.0009	-.0008	10.03	.0001	.0024	.0000	-.0004
#2	9.997	-.0014	-.0006	9.950	.0017	.0025	.0001	-.0003
#3	9.909	-.0020	-.0005	9.912	.0003	.0027	-.0002	-.0003
#4	9.910	-.0019	-.0003	9.936	.0005	.0026	.0001	-.0001
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Sample Name: CCVB1 Acquired: 3/31/2011 14:41:00 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.09**	**10.10**	**.0002**	**.0005**	**1.001**	**1.0085**	**1.031**	**1.007**
Stddev	.05	.07	.0002	.0004	.006	.0061	.023	.005
%RSD	.5321	.7103	89.83	74.45	.6336	.60487	2.239	.4536
#1	10.11	10.20	.0000	.0009	1.008	1.0141	1.033	1.012
#2	10.14	10.07	.0001	.0007	1.005	1.0122	1.062	1.009
#3	10.07	10.10	.0004	.0000	.9976	1.0073	1.019	1.006
#4	10.02	10.03	.0003	.0005	.9948	1.0004	1.009	1.001
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4874.1**	**103460.**	**1595.6**	**1244.6**
Stddev	75.5	318.	6.3	17.4
%RSD	1.5496	.30773	.39757	1.3953
#1	4864.4	103280.	1602.4	1241.1
#2	4771.0	103940.	1591.0	1221.5
#3	4925.5	103360.	1599.5	1257.8
#4	4935.4	103270.	1589.4	1258.2

Sample Name: CCB1 Acquired: 3/31/2011 14:46:44 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**-.0003**	**.0001**	**.0015**	**-.0011**	**.00001**	**.0028**	**.0000**
Stddev	.0000	.0005	.0001	.0012	.0003	.00002	.0019	.0000
%RSD	8.932	164.2	56.75	79.22	31.42	203.10	66.90	205.4
#1	-.0005	.0000	.0002	.0023	-.0009	.00003	.0042	.0001
#2	-.0006	-.0007	.0001	.0006	-.0014	.00000	.0015	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0204**	**-.0004**	**-.0001**	**.0000**	**-.0003**	**-.0004**	**.0015**
Stddev	.000	.0154	.0003	.0000	.000	.0003	.0000	.0028
%RSD	1908.	75.63	74.98	28.41	1055.	74.87	12.07	188.2
#1	.0000	.0095	-.0007	-.0001	.0002	-.0005	-.0003	-.0005
#2	.0000	.0313	-.0002	-.0001	-.0002	-.0002	-.0004	.0035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0209**	**-.0006**	**-.0058**	**.0001**	**.0009**	**.0003**	**.0002**
Stddev	.0005	.0004	.0001	.0029	.0000	.0000	.0000	.0002
%RSD	223.9	2.024	17.00	50.61	4.096	.1423	8.643	76.12
#1	.0001	.0206	-.0007	-.0078	.0001	.0009	.0003	.0001
#2	-.0006	.0212	-.0005	-.0037	.0001	.0009	.0004	.0003
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB1 Acquired: 3/31/2011 14:46:44 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0301**	**-.0009**	**-.0001**	**.0370**	**.0007**	**-.0002**	**.0000**	**.0001**
Stddev	.0768	.0010	.0002	.0086	.0008	.0001	.0000	.0000
%RSD	255.6	116.7	176.5	23.34	117.4	68.51	858.7	34.13
#1	-.0243	-.0001	.0000	.0431	.0001	-.0001	.0000	.0002
#2	.0844	-.0016	-.0003	.0309	.0012	-.0003	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0356**	**.0000**	**.0005**	**-.0027**	**.00014**	**.0033**	**.0009**
Stddev	.0002	.0009	.000	.0009	.0002	.00005	.0006	.0004
%RSD	58.66	2.655	431.6	193.5	8.461	37.783	19.23	37.60
#1	.0006	-.0349	.0000	.0011	-.0025	.00018	.0028	.0007
#2	.0002	-.0362	-.0001	-.0002	-.0028	.00010	.0037	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4945.1	106760.	1600.4	1319.6
Stddev	1.8	48.	13.2	2.8
%RSD	.03563	.04537	.82754	.21467
#1	4946.4	106800.	1591.0	1317.6
#2	4943.9	106730.	1609.8	1321.6

Sample Name: ICSA Acquired: 3/31/2011 14:51:44 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-58-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	*****	**8.863**	**.0027**	**.0017**	**-.0029**	**.00002**	**.0043**	**.0000**
Stddev	-----	4.449	.0009	.0007	.0001	.00006	.0003	.000
%RSD	-----	50.20	34.33	43.01	2.173	362.91	6.263	82.98
#1	-----	12.01	.0033	.0012	-.0029	-.00002	.0045	-.0001
#2	7.222	5.717	.0020	.0022	-.0028	.00006	.0042	.0000
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	F **20.31**	**29.15**	**.0002**	**-.0007**	**.0196**	**-.0010**	F **7.977**
Stddev	.0008	16.93	6.63	.0000	.0004	.0136	.0013	6.650
%RSD	63.41	83.34	22.76	18.78	61.88	69.49	134.8	83.37
#1	.0018	32.28	24.46	.0002	-.0010	.0293	.0000	12.68
#2	.0007	8.341	33.84	.0002	-.0004	.0100	-.0020	3.275
Check ?	None	Chk Fail	None	None	None	None	None	Chk Fail
Value		500.0						200.0
Range		-20.00%						-20.00%

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0064**	F **21.23**	**19.29**	**41.28**	**.0000**	**.0018**	**.0001**	**-.0001**
Stddev	.0045	17.71	1.19	34.15	.000	.0006	.0000	.0001
%RSD	69.86	83.44	6.153	82.73	7.616	34.41	48.17	160.9
#1	-.0096	33.75	20.13	65.43	.0000	.0023	.0001	-.0001
#2	-.0032	8.702	18.45	17.13	.0000	.0014	.0001	.0000
Check ?	None	Chk Fail	None	None	None	None	None	None
Value		500.0						
Range		-20.00%						

klr 3/31/11

Sample Name: ICSA Acquired: 3/31/2011 14:51:44 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-58-A

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0604**	**-.0095**	**.0004**	**-.1119**	**.0005**	**-.0011**	**.0003**	**.0035**
Stddev	.0085	.0047	.0006	.0083	.0002	.0002	.0003	.0017
%RSD	14.10	49.51	128.6	7.413	37.01	17.13	81.34	49.17
#1	.0664	-.0129	.0008	-.1061	.0007	-.0012	.0005	.0047
#2	.0543	-.0062	.0000	-.1178	.0004	-.0010	.0001	.0023
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0279**	**-.0326**	**-.0005**	**.0018**	**-.0034**	**.00133**	**.0010**	**-.0111**
Stddev	.0202	.0067	.0002	.0007	.0037	.00083	.0048	.0084
%RSD	72.46	20.40	33.75	37.99	110.5	62.466	499.9	75.80
#1	-.0421	-.0373	-.0006	.0013	-.0007	.00192	.0044	-.0170
#2	-.0136	-.0279	-.0004	.0023	-.0060	.00074	-.0024	-.0051
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10467.**	**253050.**	**3273.0**	**2547.9**
Stddev	1868.	5115.	25.4	498.4
%RSD	17.848	2.0215	.77493	19.563
#1	9146.3	249430.	3255.1	2195.5
#2	11788.	256670.	3291.0	2900.4

3/31/11

Sample Name: ICSA Acquired: 3/31/2011 14:55:59 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.25**	**372.8**	**.0278**	**-.0115**	**.0022**	**-.00040**	**-.0065**	**-.0056**
Stddev	.07	1.0	.0025	.0011	.0004	.00002	.0005	.0001
%RSD	.4240	.2777	9.162	9.908	18.14	6.0243	7.303	2.237
#1	17.20	372.1	.0296	-.0107	.0019	-.00038	-.0061	-.0057
#2	17.31	373.6	.0260	-.0123	.0024	-.00041	-.0068	-.0055
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**465.6**	*****	**.0063**	**-.0032**	**.1337**	**.0024**	**182.2**
Stddev	.0002	.3	-----	.0005	.0001	.0002	.0007	.5
%RSD	21.18	.0602	-----	7.242	3.317	.1286	31.01	.2763
#1	.0008	465.4	-----	.0059	-.0033	.1336	.0019	182.5
#2	.0011	465.8	-----	.0066	-.0031	.1338	.0029	181.8
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0159**	**484.1**	**212.8**	**402.8**	**.0001**	**.0012**	**-.0013**	**-.0039**
Stddev	.0002	1.1	.0	3.4	.0001	.0001	.0003	.0000
%RSD	1.454	.2346	.0124	.8457	100.5	5.880	23.53	1.184
#1	-.0161	484.9	212.7	405.2	.0000	.0012	-.0010	-.0039
#2	-.0157	483.3	212.8	400.4	.0001	.0011	-.0015	-.0039
Check ?	None	Chk Pass	None	None	None	None	None	None
Value								
Range								

Sample Name: ICSA Acquired: 3/31/2011 14:55:59 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B RERUN

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.1015**	**-.0088**	**.0004**	**-.0780**	**.0002**	**.0041**	**.0032**	**-.0081**
Stddev	.0350	.0008	.0005	.0095	.0006	.0000	.0000	.0001
%RSD	34.47	9.502	132.9	12.13	326.9	.6739	.3421	1.326
#1	-.0768	-.0094	.0000	-.0847	.0006	.0041	.0032	-.0082
#2	-.1263	-.0082	.0008	-.0713	-.0002	.0041	.0032	-.0080
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**-.0397**	**.0032**	**-.0006**	**-.0015**	**.02705**	**.0251**	**-.0038**
Stddev	.0004	.0111	.0000	.0021	.0039	.00044	.0004	.0039
%RSD	13.92	27.84	1.388	326.0	250.5	1.6323	1.486	104.4
#1	.0024	-.0319	.0033	.0008	.0012	.02736	.0248	-.0010
#2	.0030	-.0475	.0032	-.0021	-.0043	.02674	.0254	-.0065
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4354.4	91389.	1554.9	1031.6
Stddev	11.0	318.	7.8	3.2
%RSD	.25315	.34808	.50367	.31330
#1	4362.2	91164.	1549.4	1029.3
#2	4346.6	91614.	1560.4	1033.8

Sample Name: ICSAB Acquired: 3/31/2011 15:00:12 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-81-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.37**	**367.2**	**.8338**	**-.0146**	**.4959**	**.46188**	**-.0072**	**1.011**
Stddev	.02	2.6	.0010	.0004	.0036	.00114	.0018	.001
%RSD	.1376	.6967	.1231	2.638	.7191	.24785	25.21	.1325
#1	17.38	365.4	.8345	-.0143	.4984	.46269	-.0085	1.011
#2	17.35	369.0	.8331	-.0148	.4934	.46107	-.0059	1.010
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9124**	**455.5**	*****	**.5085**	**.4465**	F **.6268**	**.4513**	**178.2**
Stddev	.0019	2.7	-----	.0003	.0004	.0012	.0038	1.1
%RSD	.2129	.5848	-----	.0623	.0802	.1888	.8337	.6214
#1	.9138	457.4	-----	.5083	.4462	.6277	.4539	179.0
#2	.9110	453.6	-----	.5087	.4467	.6260	.4486	177.4
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.5000		
Range						20.00%		

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9600**	**471.5**	**209.9**	**389.1**	**.4874**	**.5127**	**-.0010**	**.8837**
Stddev	.0058	2.8	1.3	4.4	.0002	.0025	.0001	.0037
%RSD	.5993	.5981	.6024	1.136	.0486	.4789	11.40	.4160
#1	.9559	473.5	210.8	392.2	.4875	.5109	-.0009	.8811
#2	.9640	469.5	209.1	385.9	.4872	.5144	-.0011	.8863
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: ICSAB Acquired: 3/31/2011 15:00:12 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B ICP8-81-C

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0176**	**-.0056**	**.8928**	**-.1351**	**.0009**	**.5216**	**1.033**	**.8527**
Stddev	.0802	.0002	.0049	.0304	.0017	.0002	.001	.0001
%RSD	455.7	3.985	.5515	22.52	198.9	.0404	.1246	.0094
#1	-.0743	-.0054	.8963	-.1136	.0021	.5217	1.032	.8528
#2	.0391	-.0058	.8894	-.1566	-.0003	.5214	1.034	.8527
Check ?	None	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0355**	**.0023**	**-.0020**	**-.0019**	**.05218**	**.0294**	**.0012**
Stddev	.0010	.0153	.0003	.0027	.0017	.00030	.0021	.0001
%RSD	440.4	43.04	13.72	133.2	89.14	.57196	7.253	6.775
#1	-.0009	-.0247	.0020	-.0039	-.0031	.05197	.0309	.0011
#2	.0005	-.0463	.0025	-.0001	-.0007	.05239	.0279	.0012
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4355.2	91228.	1544.7	1042.9
Stddev	6.8	235.	13.1	.4
%RSD	.15714	.25717	.84968	.04065
#1	4350.4	91394.	1535.4	1042.6
#2	4360.1	91062.	1554.0	1043.2

Sample Name: RB Acquired: 3/31/2011 15:05:22 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	F **.0078**	**-.0004**	**.0003**	F **.0002**	**.00000**	F **-.0057**	**.0000**
#1	.0034	.0077	.0004	.0005	.0004	-.00003	-.0050	.0000
#2	.0033	.0079	-.0012	.0000	.0001	.00004	-.0064	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0350**	**.0059**	F **.0003**	**-.0005**	**-.0001**	**-.0003**	F **.0042**
#1	.0000	.0225	.0058	.0004	-.0009	.0000	-.0005	-.0011
#2	.0000	.0476	.0059	.0003	-.0002	-.0002	-.0001	.0095

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0036**	F **-.0002**	**-.0001**	**.0002**	**.0002**	F **-.1490**	**-.0034**
#1	-.0003	.0036	-.0002	-.0001	.0002	.0002	-.2006	-.0038
#2	.0003	.0037	-.0001	.0000	.0002	.0003	-.0975	-.0031

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	F **-.1413**	**.0010**	**.0002**	F **.0000**	F **.0001**	**.0036**	**-.0409**
#1	.0004	-.1282	.0008	.0003	.0000	.0001	-.0003	-.0524
#2	.0008	-.1545	.0011	.0000	-.0001	.0001	.0075	-.0295

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0021**	**-.0039**	**.00013**	**.0011**	**.0035**
#1	-.0003	.0029	-.0031	.00006	.0022	.0034
#2	-.0003	.0013	-.0047	.00019	.0001	.0036

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4977.2**	**106270.**	**1592.3**	**1317.6**
#1	4967.6	106230.	1588.7	1317.8
#2	4986.9	106310.	1596.0	1317.4

Sample Name: T1100322-MB Acquired: 3/31/2011 15:12:53 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0006**	F **.0114**	**.0005**	**-.0003**	**-.00001**	**-.0042**	**.0000**
#1	.0006	.0003	.0142	.0009	-.0008	.00000	-.0043	.0000
#2	.0004	.0009	.0085	.0001	.0002	-.00003	-.0041	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0256**	**.0018**	**-.0003**	**.0000**	**.0000**	**-.0002**	**.0028**
#1	-.0001	.0245	.0019	-.0005	.0002	.0002	.0003	-.0014
#2	.0000	.0267	.0018	.0000	-.0001	-.0001	-.0007	.0070

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**-.0002**	**-.0004**	**.0000**	**.0000**	**-.0001**	**-.0557**	**-.0006**
#1	.0007	-.0001	-.0017	.0000	.0000	-.0001	-.0847	-.0012
#2	.0006	-.0003	.0010	.0000	.0001	-.0001	-.0267	.0000

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.1864**	**.0002**	**.0004**	**.0001**	**.0002**	F **.2620**	**-.0268**
#1	.0001	-.1941	-.0003	.0005	.0002	.0002	.2625	-.0191
#2	-.0002	-.1787	.0008	.0002	.0001	.0002	.2615	-.0346

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0008**	**-.0061**	**-.00003**	**.0013**	**.0036**
#1	-.0001	.0019	-.0040	.00003	.0009	.0031
#2	-.0002	-.0002	-.0082	-.00009	.0018	.0041

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5023.3**	**108750.**	**1625.4**	**1337.6**
#1	5020.8	108490.	1627.5	1338.2
#2	5025.9	109000.	1623.3	1336.9

Sample Name: LCSW Acquired: 3/31/2011 15:16:15 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.108**	**2.474**	**2.457**	**4.821**	**.12239**	**.9635**	**1.260**	**1.221**
#1	5.075	2.474	2.455	4.831	.12184	.9554	1.259	1.218
#2	5.141	2.475	2.459	4.811	.12294	.9716	1.261	1.224

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.13**	**12.02**	**.5007**	**1.220**	**.6377**	**.6142**	**2.427**	**2.542**
#1	12.12	12.15	.5010	1.218	.6368	.6097	2.428	2.541
#2	12.14	11.89	.5003	1.221	.6387	.6188	2.426	2.544

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.07**	**1.229**	**.9802**	**1.223**	**11.95**	**2.382**	**.5967**	**11.94**
#1	12.06	1.228	.9786	1.222	12.07	2.378	.5943	11.94
#2	12.09	1.230	.9818	1.225	11.83	2.386	.5991	11.95

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**1.251**	**1.262**	**1.186**	**.2197**	**-.0301**	**-.0001**	**2.548**
#1	.0011	1.250	1.262	1.185	.2196	-.0303	.0000	2.548
#2	.0010	1.252	1.262	1.187	.2199	-.0300	-.0001	2.548

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**-.0070**	**.00079**	**.0072**	**.0016**
#1	-.0063	.00085	.0097	-.0032
#2	-.0078	.00072	.0048	.0065

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4837.6**	**104150.**	**1583.8**	**1238.3**
#1	4842.6	103770.	1581.8	1238.1
#2	4832.7	104520.	1585.8	1238.5

Sample Name: T1100322-002 Acquired: 3/31/2011 15:19:23 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2054**	**.2233**	**.0012**	**.0025**	**.0395**	**-.00001**	**.1900**	**.0000**
#1	.2037	.2223	.0014	.0030	.0388	-.00003	.1902	-.0001
#2	.2070	.2243	.0011	.0020	.0402	.00001	.1897	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	F **21.71**	F **.0007**	**-.0001**	**.0020**	**.0026**	F **.0080**	**.0008**
#1	-.0001	21.74	.0007	-.0001	.0019	.0016	.0072	.0008
#2	.0000	21.69	.0007	.0000	.0022	.0036	.0087	.0009

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.653**	**2.618**	**.0084**	**.0038**	**-.0009**	**4.195**	**.0031**	**-.0003**
#1	2.657	2.602	.0085	.0040	-.0012	4.172	.0035	-.0004
#2	2.650	2.633	.0083	.0036	-.0006	4.219	.0027	-.0003

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.60**	**.0450**	**.0022**	F **.0011**	F **.0013**	**.2781**	**1.983**	**-.0002**
#1	19.55	.0452	.0023	.0010	.0013	.2784	1.996	-.0002
#2	19.65	.0449	.0021	.0011	.0013	.2779	1.969	-.0002

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**-.0074**	**1.4594**	**.0024**	**11.41**
#1	.0017	-.0081	1.4638	.0029	11.39
#2	.0022	-.0068	1.4551	.0018	11.43

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4833.3**	**104980.**	**1586.0**	**1248.8**
#1	4861.0	104550.	1580.8	1255.5
#2	4805.7	105410.	1591.1	1242.2

Sample Name: T1100322-002D Acquired: 3/31/2011 15:22:45 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2078**	**.2257**	**.0023**	**.0019**	**.0408**	**-.00004**	**.1957**	**.0000**
#1	.2077	.2246	.0026	.0017	.0412	-.00004	.1945	.0000
#2	.2078	.2269	.0020	.0022	.0404	-.00005	.1968	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	F **22.18**	F **.0004**	**-.0001**	**.0022**	**.0024**	F **.0066**	**.0001**
#1	.0000	22.11	.0005	-.0001	.0020	.0029	.0086	.0000
#2	.0000	22.25	.0002	-.0001	.0024	.0020	.0045	.0002

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.690**	**2.684**	**.0084**	**.0029**	**-.0009**	**4.264**	**.0000**	**.0000**
#1	2.686	2.681	.0084	.0029	-.0006	4.308	-.0004	.0001
#2	2.693	2.687	.0084	.0028	-.0013	4.220	.0005	-.0001

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.98**	**.0449**	**.0027**	F **.0015**	F **.0016**	**.3145**	**2.013**	**-.0002**
#1	19.94	.0447	.0025	.0013	.0016	.3143	1.989	-.0002
#2	20.03	.0450	.0029	.0016	.0015	.3146	2.036	-.0001

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**-.0045**	**1.4888**	**.0018**	**11.73**
#1	.0008	-.0052	1.4870	-.0003	11.69
#2	.0014	-.0038	1.4907	.0039	11.76

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4824.8**	**104720.**	**1592.3**	**1252.7**
#1	4826.5	105050.	1594.4	1255.3
#2	4823.0	104380.	1590.2	1250.1

Sample Name: T1100322-002S Acquired: 3/31/2011 15:26:06 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.211**	**.4786**	**.9608**	**1.969**	**.04762**	**1.147**	**.0496**	**.0476**
#1	2.224	.4804	.9586	1.974	.04769	1.151	.0496	.0476
#2	2.199	.4769	.9631	1.964	.04755	1.143	.0497	.0476

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.43**	**.1948**	**.4794**	**.2482**	**.2386**	**.9728**	**.4933**	**12.32**
#1	31.41	.1938	.4789	.2475	.2384	.9691	.4934	12.36
#2	31.46	.1959	.4798	.2489	.2389	.9766	.4932	12.29

Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4846**	**.9924**	**.4730**	**13.98**	**.9166**	**.0430**	**29.94**	**.0455**
#1	.4824	.9932	.4729	14.04	.9153	.0428	29.96	.0454
#2	.4869	.9917	.4732	13.92	.9179	.0433	29.92	.0457

Elem	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4981**	**.5088**	**.4714**	**.2553**	**2.087**	**.0002**	**.9674**	**-.0036**
#1	.4959	.5078	.4717	.2532	2.084	.0003	.9675	-.0039
#2	.5004	.5097	.4711	.2574	2.090	.0002	.9672	-.0033

Elem	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	**1.4778**	**.0053**	**11.49**
#1	1.4785	.0053	11.47
#2	1.4771	.0053	11.52

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4846.5**	**103790.**	**1599.1**	**1226.7**
#1	4842.3	104030.	1600.5	1226.7
#2	4850.7	103550.	1597.7	1226.7

Sample Name: CCVA2 Acquired: 3/31/2011 15:29:12 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2521**	**.2736**	**.2541**	**.2506**	**.2443**	**.25236**	**.2525**	**.2522**
Stddev	.0005	.0025	.0001	.0002	.0015	.00105	.0017	.0006
%RSD	.1790	.9149	.0429	.0714	.6312	.41718	.6691	.2215
#1	.2518	.2754	.2541	.2505	.2454	.25311	.2537	.2525
#2	.2524	.2718	.2540	.2507	.2433	.25162	.2513	.2518
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2516**	**.2545**	**.2528**	**.2516**	**.2539**	**.2517**	**.2543**	**.2539**
Stddev	.0002	.0045	.0008	.0011	.0004	.0000	.0031	.0139
%RSD	.0984	1.751	.3054	.4458	.1407	.0007	1.234	5.482
#1	.2515	.2514	.2523	.2508	.2537	.2517	.2565	.2638
#2	.2518	.2577	.2534	.2524	.2542	.2517	.2521	.2441
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2541**	**.2564**	**.2508**	**.2407**	**.2500**	**.2356**	**.2519**	**.2546**
Stddev	.0021	.0067	.0002	.0003	.0001	.0008	.0002	.0006
%RSD	.8304	2.604	.0951	.1179	.0474	.3573	.0744	.2357
#1	.2556	.2611	.2506	.2409	.2499	.2362	.2520	.2550
#2	.2526	.2517	.2510	.2405	.2501	.2350	.2517	.2542
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA2 Acquired: 3/31/2011 15:29:12 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.317**	**.2530**	**.2534**	**.2285**	**.2575**	**.2510**	**.2548**	**.2508**
Stddev	.047	.0006	.0020	.0366	.0003	.0022	.0007	.0002
%RSD	2.030	.2566	.8044	16.02	.0973	.8704	.2757	.0670
#1	2.284	.2535	.2548	.2544	.2573	.2495	.2553	.2507
#2	2.350	.2526	.2519	.2027	.2576	.2526	.2543	.2509
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.1007**	**.2524**	**.2581**	**-.0024**	**.00015**	**.0030**	**.0051**
Stddev	.0015	.0185	.0006	.0012	.0013	.00007	.0010	.0017
%RSD	130.8	18.38	.2355	.4714	53.47	48.998	32.39	32.20
#1	.0022	.0876	.2519	.2590	-.0015	.00021	.0023	.0040
#2	.0001	.1137	.2528	.2572	-.0033	.00010	.0037	.0063
Check ?	None	None	Chk Pass	Chk Pass	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4911.2	106500.	1565.4	1297.2
Stddev	7.9	594.	1.5	1.2
%RSD	.16125	.55783	.09347	.09079
#1	4916.8	106920.	1566.5	1296.4
#2	4905.6	106080.	1564.4	1298.0

Sample Name: CCVB2 Acquired: 3/31/2011 15:32:23 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.256**	**10.38**	**.0010**	**1.003**	**10.15**	**-.00003**	**.0032**	**-.0004**
Stddev	.026	.06	.0003	.004	.03	.00005	.0004	.0000
%RSD	.3636	.6017	27.56	.3588	.3262	200.57	11.74	8.839
#1	7.275	10.43	.0008	1.005	10.12	.00001	.0029	-.0004
#2	7.238	10.34	.0012	1.000	10.17	-.00006	.0034	-.0004
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**10.11**	**10.06**	**.0002**	**.0000**	**.0074**	**-.0001**	**10.09**
Stddev	.0000	.01	.11	.0001	.0005	.0001	.0006	.03
%RSD	24.77	.0832	1.107	37.88	3677.	1.023	486.3	.2797
#1	.0001	10.12	10.14	.0003	.0004	.0075	-.0006	10.07
#2	.0001	10.11	9.981	.0001	-.0003	.0074	.0003	10.11
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**10.11**	**10.07**	**10.03**	**1.025**	**.9861**	**.0010**	**-.0059**
Stddev	.0001	.05	.03	.01	.006	.0150	.0001	.0002
%RSD	26.01	.4766	.3323	.1124	.5704	1.525	7.709	2.704
#1	-.0003	10.08	10.05	10.03	1.021	.9755	.0010	-.0057
#2	-.0002	10.15	10.09	10.02	1.029	.9968	.0011	-.0060
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB2 Acquired: 3/31/2011 15:32:23 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.924**	**-.0007**	**.0002**	**9.806**	**.0007**	**.0026**	**.0001**	**-.0002**
Stddev	.102	.0012	.0003	.093	.0004	.0001	.0002	.0000
%RSD	1.023	156.3	197.8	.9479	53.87	2.363	130.6	7.039
#1	9.852	-.0016	-.0001	9.740	.0004	.0027	.0000	-.0003
#2	9.996	.0001	.0004	9.872	.0010	.0026	.0003	-.0002
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.04**	**9.917**	**.0001**	**.0003**	**.9863**	**1.0159**	**1.036**	**.9983**
Stddev	.01	.062	.0001	.0005	.0091	.0041	.005	.0041
%RSD	.0608	.6221	150.8	168.8	.9271	.40515	.4846	.4105
#1	10.04	9.873	.0000	.0007	.9799	1.0130	1.039	.9954
#2	10.03	9.960	.0002	-.0001	.9928	1.0188	1.032	1.001
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4837.8**	**103660.**	**1566.8**	**1238.7**
Stddev	5.4	377.	1.3	.2
%RSD	.11173	.36410	.08442	.01766
#1	4834.0	103920.	1565.9	1238.5
#2	4841.6	103390.	1567.8	1238.8

Sample Name: CCB2 Acquired: 3/31/2011 15:36:41 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0016**	**.0022**	**.0011**	**-.0004**	**.00002**	**.0005**	**.0000**
Stddev	.0000	.0006	.0007	.0023	.0001	.00004	.0004	.0001
%RSD	2.594	36.67	32.56	209.5	12.90	207.62	84.65	112.0
#1	-.0005	.0020	.0027	-.0005	-.0004	.00005	.0002	.0000
#2	-.0005	.0012	.0017	.0027	-.0004	-.00001	.0007	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0339**	**-.0003**	**-.0002**	**-.0002**	**-.0002**	**-.0005**	**.0055**
Stddev	.0000	.0011	.0003	.0004	.0002	.0001	.0002	.0113
%RSD	266.2	3.100	95.53	194.7	141.1	27.72	38.01	206.3
#1	.0000	.0346	-.0005	.0001	-.0004	-.0003	-.0003	.0135
#2	.0000	.0332	-.0001	-.0005	.0000	-.0002	-.0006	-.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0248**	**-.0007**	**-.0021**	**.0002**	**.0006**	**.0005**	**.0001**
Stddev	.0004	.0322	.0001	.0033	.0000	.0013	.0001	.0000
%RSD	198.6	130.0	19.91	154.4	28.29	196.4	17.04	10.68
#1	-.0004	-.0475	-.0006	-.0045	.0001	-.0003	.0006	.0001
#2	.0001	-.0020	-.0008	.0002	.0002	.0015	.0005	.0001
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 3/31/2011 15:36:41 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0937**	**-.0002**	**.0000**	**-.0462**	**-.0002**	**-.0001**	**.0000**	**.0000**
Stddev	.0085	.0009	.000	.0193	.0002	.0003	.000	.000
%RSD	9.026	530.7	536.6	41.88	73.36	304.7	1596.	1646.
#1	-.0877	.0004	-.0001	-.0325	-.0001	-.0003	.0000	-.0001
#2	-.0997	-.0008	.0001	-.0598	-.0003	.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0023**	**-.0273**	**-.0002**	**.0006**	**-.0050**	**.00019**	**.0014**	**.0050**
Stddev	.0034	.0010	.0001	.0001	.0033	.00012	.0007	.0020
%RSD	147.4	3.705	31.68	15.74	65.04	62.153	48.97	40.55
#1	-.0047	-.0266	-.0003	.0007	-.0027	.00028	.0019	.0036
#2	.0001	-.0280	-.0002	.0005	-.0073	.00011	.0009	.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4937.0**	**106320.**	**1581.9**	**1315.7**
Stddev	4.9	376.	1.6	3.6
%RSD	.09834	.35351	.10326	.27295
#1	4940.4	106050.	1580.7	1318.2
#2	4933.6	106580.	1583.0	1313.1

Sample Name: T1100322-003 Acquired: 3/31/2011 15:41:20 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	F **.0025**	**.0008**	**.0003**	F **-.0009**	**-.00012**	F **-.0035**	**.0000**
#1	.0006	.0035	.0019	.0004	-.0006	-.00011	-.0033	.0000
#2	.0007	.0014	-.0004	.0002	-.0012	-.00013	-.0038	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0621**	**.0335**	F **-.0003**	**-.0004**	**.0001**	**.0011**	F **.0012**
#1	.0000	.0721	.0340	-.0003	-.0004	.0005	.0005	.0062
#2	.0000	.0520	.0331	-.0004	-.0005	-.0003	.0018	-.0038

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0009**	F **-.0059**	**.0001**	**.0003**	**-.0001**	F **-.0797**	**-.0018**
#1	-.0014	.0009	-.0054	.0001	.0002	-.0002	-.0937	-.0026
#2	-.0005	.0009	-.0064	.0001	.0003	.0000	-.0657	-.0010

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	F **-.1083**	**.0180**	**-.0004**	F **.0009**	F **.0012**	**.2275**	**-.0322**
#1	-.0005	-.0974	.0179	-.0003	.0008	.0011	.2288	-.0172
#2	.0001	-.1192	.0181	-.0006	.0010	.0012	.2263	-.0472

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0010**	**-.0052**	**.00004**	**.0013**	**.0068**
#1	-.0001	.0005	-.0038	-.00025	.0023	.0076
#2	-.0004	.0016	-.0067	.00033	.0003	.0060

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4992.9**	**108610.**	**1602.6**	**1319.8**
#1	4968.5	108230.	1594.3	1312.6
#2	5017.3	108990.	1611.0	1327.1

Sample Name: K1102358-MB Acquired: 3/31/2011 15:45:41 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0022**	**.0034**	**.0018**	**.0004**	**-.00020**	**-.0038**	**.0000**
#1	.0010	.0027	.0035	.0002	.0006	-.00018	-.0032	.0000
#2	.0011	.0017	.0034	.0034	.0001	-.00021	-.0043	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	F **.0573**	F **.0241**	**.0001**	**-.0004**	**.0012**	**.0007**	**.0025**
#1	.0000	.0671	.0238	.0001	-.0003	.0013	.0009	.0054
#2	.0000	.0476	.0243	.0001	-.0004	.0010	.0005	-.0004

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	F **.0029**	**-.0014**	**.0000**	**.0000**	**-.0001**	F **-.1053**	**-.0016**
#1	-.0007	.0030	-.0059	.0001	.0002	-.0004	-.1691	-.0027
#2	-.0001	.0028	.0031	.0000	-.0002	.0002	-.0415	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	F **-.2193**	**.0000**	**-.0003**	F **.0054**	F **.0059**	**-.0045**	**-.0411**
#1	-.0002	-.2113	.0002	-.0005	.0056	.0060	-.0046	-.0389
#2	.0006	-.2272	-.0003	-.0001	.0052	.0059	-.0043	-.0434

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**-.0019**	**-.0075**	**.00008**	**.0039**	**.0041**
#1	-.0007	-.0016	-.0080	-.00056	.0047	.0038
#2	-.0007	-.0021	-.0071	.00071	.0030	.0044

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5009.3**	**110730.**	**1579.3**	**1314.4**
#1	5022.0	110790.	1579.2	1316.6
#2	4996.5	110680.	1579.5	1312.2

Sample Name: LCSW Acquired: 3/31/2011 15:49:05 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.12**	**8.239**	**8.347**	**18.86**	**.43521**	**1.441**	**4.540**	**4.336**
#1	17.19	8.246	8.338	18.85	.43516	1.440	4.540	4.333
#2	17.06	8.232	8.356	18.87	.43527	1.441	4.541	4.339

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.50**	**1.940**	**4.639**	**2.349**	**2.312**	**9.342**	**8.914**	**46.07**
#1	47.43	1.925	4.638	2.350	2.312	9.331	8.925	45.97
#2	47.57	1.956	4.641	2.349	2.312	9.352	8.903	46.17

Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.566**	**1.748**	**4.616**	**47.60**	**7.324**	**1.758**	**47.54**	**.0004**
#1	4.533	1.747	4.612	47.56	7.328	1.758	47.47	.0000
#2	4.600	1.749	4.620	47.65	7.320	1.759	47.60	.0007

Elem	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.933**	**4.863**	**4.143**	**-.0023**	**-.0099**	**-.0006**	**8.575**	**-.0046**
#1	4.901	4.869	4.143	-.0061	-.0241	-.0007	8.600	-.0046
#2	4.964	4.858	4.144	.0014	.0042	-.0005	8.551	-.0045

Elem	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	**.00271**	**.0276**	**.0056**
#1	.00282	.0290	.0054
#2	.00259	.0263	.0059

Run @ 4K
3/31/11

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4711.6**	**103160.**	**1563.3**	**1183.9**
#1	4715.3	103660.	1563.2	1182.7
#2	4707.8	102650.	1563.3	1185.1

Sample Name: K1102358-002 Acquired: 3/31/2011 15:52:24 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0510**	**.0519**	**.0153**	**.0087**	**.0681**	**-.00014**	F **.0023**	**.0001**
#1	.0509	.0511	.0158	.0097	.0688	-.00014	.0026	.0001
#2	.0510	.0527	.0148	.0076	.0675	-.00014	.0019	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**1.617**	**1.646**	**.0092**	**.0006**	**.0124**	**.0126**	**.7543**
#1	.0002	1.612	1.645	.0091	.0009	.0120	.0131	.7519
#2	.0002	1.621	1.646	.0093	.0004	.0127	.0120	.7567

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0248**	**.0480**	**.0452**	**.0223**	**.0025**	**.0244**	F **.0370**	**.0165**
#1	.0254	.0480	.0439	.0223	.0029	.0242	.0594	.0187
#2	.0243	.0480	.0466	.0223	.0022	.0246	.0147	.0142

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	F **-.0399**	**.0080**	**.0001**	**.1238**	**.1196**	**2.266**	**.6984**
#1	.0003	-.0235	.0077	-.0001	.1239	.1197	2.268	.7075
#2	-.0003	-.0564	.0082	.0003	.1237	.1195	2.264	.6893

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0006**	**.0721**	**.00189**	**.0028**	**20.02**
#1	-.0001	-.0008	.0723	.00157	.0012	19.97
#2	-.0001	-.0004	.0718	.00220	.0043	20.07

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4948.9**	**109860.**	**1625.3**	**1348.7**
#1	4954.2	109680.	1623.2	1347.0
#2	4943.6	110040.	1627.4	1350.4

Sample Name: K1102358-002D Acquired: 3/31/2011 15:55:43 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0503**	**.0543**	**.0133**	**.0056**	**.0652**	**-.00012**	F **.0043**	**.0000**
#1	.0505	.0536	.0129	.0072	.0654	-.00009	.0047	.0000
#2	.0501	.0550	.0136	.0040	.0650	-.00015	.0039	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**1.785**	**1.806**	**.0093**	**.0007**	**.0154**	**.0159**	**.7511**
#1	.0002	1.774	1.802	.0095	.0008	.0155	.0157	.7479
#2	.0001	1.796	1.809	.0091	.0007	.0154	.0162	.7542

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0243**	**.0820**	**.0787**	**.0220**	**.0018**	**.0235**	F **-.0706**	**.0109**
#1	.0253	.0820	.0783	.0221	.0017	.0234	-.1407	.0105
#2	.0233	.0819	.0792	.0220	.0018	.0235	-.0005	.0113

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	F **-.0111**	**.0070**	**-.0002**	**.1193**	**.1166**	**2.190**	**.6732**
#1	-.0001	.0230	.0073	-.0007	.1193	.1163	2.185	.6968
#2	.0005	-.0452	.0067	.0003	.1194	.1170	2.196	.6497

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0015**	**.0712**	**.00289**	**.0015**	**19.38**
#1	.0000	-.0007	.0712	.00305	.0025	19.34
#2	.0001	-.0024	.0713	.00273	.0005	19.43

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4980.5**	**110350.**	**1626.0**	**1353.8**
#1	4975.2	110470.	1624.0	1350.9
#2	4985.9	110220.	1628.0	1356.8

Sample Name: K1102358-002S Acquired: 3/31/2011 15:59:00 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.344**	**.8181**	**1.713**	**3.509**	**.07922**	**1.351**	**.0815**	**.0838**
#1	3.378	.8191	1.716	3.532	.07923	1.353	.0813	.0836
#2	3.311	.8172	1.710	3.486	.07921	1.349	.0817	.0840

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.379**	**1.403**	**.3546**	**.8769**	**.4236**	**.4588**	**2.354**	**.8372**
#1	1.383	1.412	.3548	.8733	.4229	.4596	2.368	.8353
#2	1.374	1.395	.3544	.8805	.4244	.4581	2.339	.8391

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0419**	**.0372**	**.8695**	**1.591**	**.8847**	F **-.0568**	**1.638**	**.0754**
#1	.0422	.0392	.8672	1.584	.8821	-.0716	1.637	.0750
#2	.0417	.0353	.8718	1.599	.8873	-.0420	1.638	.0758

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0711**	**.0068**	**.8727**	**.9324**	**.8928**	**1.920**	**.0559**	**-.0002**
#1	-.1193	.0074	.8703	.9296	.8916	1.922	.0647	-.0002
#2	-.0228	.0063	.8752	.9352	.8939	1.917	.0471	-.0001

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.626**	**.0646**	**.00182**	**.0059**	**16.80**
#1	1.621	.0661	.00182	.0054	16.80
#2	1.631	.0630	.00182	.0063	16.81

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4952.8**	**110240.**	**1628.0**	**1339.9**
#1	4962.1	110380.	1620.7	1341.7
#2	4943.4	110100.	1635.3	1338.2

Sample Name: K1102358-004 Acquired: 3/31/2011 16:02:05 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0195**	**.0213**	**.0176**	**.0035**	**.0047**	**-.00003**	F **.0045**	**.0004**
#1	.0194	.0214	.0188	.0043	.0045	-.00001	.0040	.0004
#2	.0196	.0212	.0164	.0028	.0048	-.00005	.0049	.0003

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.2092**	**.2019**	F **.0008**	**-.0004**	**.0116**	**.0125**	**.1013**
#1	.0004	.2063	.2014	.0012	-.0004	.0119	.0122	.0975
#2	.0004	.2121	.2024	.0005	-.0003	.0113	.0129	.1051

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0257**	**.0234**	**.0014**	**.0013**	**.0004**	F **-.0564**	**.0108**
#1	.0016	.0256	.0213	.0015	.0014	.0003	-.0652	.0106
#2	.0013	.0258	.0254	.0014	.0011	.0004	-.0476	.0109

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	F **-.1099**	**.0031**	**-.0005**	**.0164**	**.0164**	**.0286**	**1.284**
#1	-.0003	-.0814	.0024	-.0003	.0164	.0164	.0257	1.276
#2	-.0003	-.1384	.0038	-.0006	.0164	.0164	.0316	1.292

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0013**	**-.0065**	**.00122**	**.0014**	**.7724**
#1	-.0001	-.0014	-.0058	.00110	.0015	.7751
#2	-.0003	-.0012	-.0071	.00133	.0013	.7698

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4991.7**	**110860.**	**1640.5**	**1348.8**
#1	5006.1	111220.	1649.2	1349.8
#2	4977.2	110500.	1631.8	1347.7

Sample Name: K1102358-006 Acquired: 3/31/2011 16:05:28 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1049**	**.1107**	**.0047**	**.0024**	**.0152**	**-.00013**	F **.0022**	**.0088**
#1	.1047	.1119	.0038	.0017	.0156	-.00009	.0020	.0088
#2	.1052	.1096	.0056	.0030	.0147	-.00018	.0023	.0088

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090**	**.1582**	**.1356**	**.0071**	**-.0001**	**.1781**	**.1989**	**1.128**
#1	.0089	.1528	.1354	.0072	-.0001	.1781	.1994	1.133
#2	.0091	.1636	.1357	.0071	-.0002	.1781	.1985	1.124

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0163**	**.0223**	F **.0200**	**.0102**	**.0042**	**.0032**	F **-.0503**	**.0038**
#1	.0167	.0225	.0230	.0103	.0044	.0031	-.0346	.0066
#2	.0158	.0221	.0169	.0102	.0041	.0033	-.0660	.0010

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	F **-.1370**	**.0018**	**.0003**	**.1218**	**.1205**	**.2091**	**.2191**
#1	.0007	-.1335	.0012	.0003	.1215	.1201	.2095	.2219
#2	-.0001	-.1405	.0024	.0002	.1222	.1208	.2087	.2163

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0011**	**-.0018**	**.00059**	**.0025**	**1.800**
#1	-.0003	-.0009	-.0001	.00077	.0049	1.791
#2	-.0002	-.0013	-.0035	.00041	.0001	1.810

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5001.4**	**111520.**	**1632.9**	**1349.1**
#1	5003.6	111330.	1635.0	1345.8
#2	4999.3	111700.	1630.8	1352.4

Sample Name: K1102358-008 Acquired: 3/31/2011 16:08:46 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0152**	**.0175**	**.0024**	**.0051**	**.0037**	**-.00007**	**.0034**	**.0020**
#1	.0150	.0188	.0033	.0053	.0038	-.00006	.0027	.0020
#2	.0153	.0162	.0015	.0048	.0037	-.00008	.0041	.0020

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.5015**	**.4873**	**.0011**	**-.0005**	**.0369**	**.0404**	**.1693**
#1	.0021	.5005	.4875	.0010	-.0003	.0368	.0404	.1720
#2	.0021	.5025	.4870	.0012	-.0008	.0370	.0403	.1666

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0698**	**.0672**	**.0026**	**.0044**	**.0003**	**-.0711**	**.0093**
#1	.0021	.0697	.0684	.0026	.0043	.0004	-.1006	.0099
#2	.0018	.0700	.0661	.0026	.0045	.0003	-.0416	.0087

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.1598**	**.0031**	**-.0002**	**.0662**	**.0645**	**.1545**	**.4544**
#1	-.0005	-.1746	.0027	-.0001	.0658	.0644	.1522	.4565
#2	-.0001	-.1450	.0036	-.0003	.0666	.0646	.1567	.4522

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0019**	**-.0053**	**.00215**	**.0024**	**1.038**
#1	.0000	-.0024	-.0079	.00238	.0030	1.039
#2	.0001	-.0015	-.0027	.00192	.0017	1.037

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4936.3**	**109620.**	**1638.1**	**1340.8**
#1	4945.6	109410.	1637.1	1343.0
#2	4926.9	109840.	1639.1	1338.7

Sample Name: LCSW 1/4 Acquired: 3/31/2011 16:12:08 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.446**	**2.395**	**2.346**	**5.232**	**.12521**	**.4370**	**1.193**	**1.171**
#1	5.431	2.418	2.369	5.256	.12538	.4381	1.203	1.180
#2	5.460	2.372	2.323	5.208	.12505	.4359	1.184	1.162

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.88**	**13.19**	**.5271**	**1.250**	**.6348**	**.6612**	**2.600**	**2.415**
#1	12.99	13.30	.5263	1.259	.6399	.6629	2.610	2.433
#2	12.76	13.07	.5278	1.241	.6298	.6596	2.591	2.397

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.11**	**1.300**	**.4600**	**1.243**	**13.31**	**2.148**	**.5214**	**13.24**
#1	13.19	1.299	.4639	1.249	13.24	2.170	.5229	13.26
#2	13.04	1.300	.4561	1.236	13.37	2.126	.5200	13.21

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**1.330**	**1.244**	**1.180**	**-.0001**	**.0105**	**-.0004**	**2.415**
#1	.0005	1.331	1.251	1.191	.0020	.0065	-.0004	2.431
#2	.0005	1.329	1.237	1.168	-.0022	.0145	-.0005	2.398

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**-.0050**	**.00098**	**.0095**	**.0073**
#1	-.0065	.00094	.0094	.0071
#2	-.0035	.00102	.0096	.0075

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4803.3**	**105460.**	**1612.9**	**1246.2**
#1	4806.6	105820.	1606.7	1248.0
#2	4800.0	105110.	1619.2	1244.5

Sample Name: CCVA3 Acquired: 3/31/2011 16:15:15 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2488**	**.2768**	**.2504**	**.2483**	**.2431**	**.24901**	**.2471**	**.2431**
Stddev	.0002	.0027	.0001	.0006	.0011	.00054	.0016	.0011
%RSD	.0621	.9861	.0421	.2367	.4471	.21685	.6339	.4726
#1	.2489	.2787	.2504	.2479	.2439	.24863	.2460	.2423
#2	.2487	.2748	.2503	.2488	.2423	.24939	.2482	.2439
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2452**	**.2712**	**.2520**	**.2462**	**.2479**	**.2455**	**.2540**	**.2535**
Stddev	.0000	.0039	.0014	.0003	.0001	.0001	.0004	.0092
%RSD	.0199	1.456	.5583	.1395	.0229	.0337	.1749	3.629
#1	.2451	.2740	.2530	.2459	.2479	.2455	.2536	.2600
#2	.2452	.2684	.2510	.2464	.2479	.2454	.2543	.2470
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2464**	**.1816**	**.2482**	**.2418**	**.2454**	**.2331**	**.2486**	**.2475**
Stddev	.0008	.0080	.0009	.0019	.0000	.0004	.0005	.0000
%RSD	.3332	4.422	.3576	.7752	.0109	.1867	.2003	.0182
#1	.2458	.1873	.2488	.2431	.2454	.2334	.2482	.2475
#2	.2470	.1759	.2475	.2404	.2454	.2328	.2489	.2475
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA3 Acquired: 3/31/2011 16:15:15 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.348**	**.2495**	**.2520**	**.1764**	**.2458**	**.2480**	**.2430**	**.2470**
Stddev	.040	.0021	.0005	.0072	.0008	.0001	.0002	.0004
%RSD	1.685	.8437	.1943	4.079	.3419	.0262	.0730	.1463
#1	2.376	.2510	.2517	.1814	.2464	.2480	.2428	.2472
#2	2.320	.2480	.2524	.1713	.2452	.2480	.2431	.2467
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**.1198**	**.2473**	**.2518**	**-.0043**	**.00036**	**.0023**	**.0085**
Stddev	.0024	.0079	.0007	.0015	.0009	.00029	.0003	.0011
%RSD	84.72	6.568	.2710	.5821	21.91	80.884	11.96	13.08
#1	.0011	.1143	.2469	.2528	-.0036	.00057	.0021	.0077
#2	.0045	.1254	.2478	.2508	-.0050	.00015	.0024	.0093
Check ?	None	None	Chk Pass	Chk Pass	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4897.9	107150.	1603.5	1310.8
Stddev	7.2	600.	3.6	2.6
%RSD	.14774	.55991	.22728	.19927
#1	4903.0	106720.	1600.9	1312.6
#2	4892.8	107570.	1606.0	1308.9

Sample Name: CCVB3 Acquired: 3/31/2011 16:18:25 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.149**	**10.47**	**.0019**	**.9867**	**10.05**	**-.00001**	**-.0010**	**-.0004**
Stddev	.006	.08	.0002	.0005	.12	.00000	.0001	.0000
%RSD	.0837	.7473	8.476	.0479	1.164	45.802	7.119	2.363
#1	7.154	10.42	.0018	.9863	10.14	-.00001	-.0010	-.0004
#2	7.145	10.53	.0021	.9870	9.972	.00000	-.0009	-.0004
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**9.808**	**9.924**	**.0000**	**.0001**	**.0067**	**.0003**	**9.962**
Stddev	.0000	.106	.040	.0003	.0003	.0008	.0009	.095
%RSD	4.970	1.079	.3993	1260.	530.3	11.87	373.0	.9521
#1	.0001	9.883	9.952	.0002	-.0002	.0061	-.0004	10.03
#2	.0001	9.733	9.896	-.0002	.0003	.0072	.0009	9.895
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**9.777**	**9.943**	**10.06**	**1.002**	**.9771**	**.0007**	**-.0057**
Stddev	.0013	.100	.123	.06	.002	.0027	.0003	.0003
%RSD	350.7	1.023	1.233	.5749	.2137	.2788	38.16	6.085
#1	-.0005	9.848	10.03	10.10	1.001	.9790	.0008	-.0055
#2	.0013	9.706	9.856	10.02	1.004	.9752	.0005	-.0060
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB3 Acquired: 3/31/2011 16:18:25 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.853**	**-.0014**	**.0007**	**9.662**	**.0002**	**.0032**	**-.0001**	**-.0002**
Stddev	.011	.0008	.0002	.023	.0000	.0003	.0001	.0001
%RSD	.1065	59.52	22.52	.2360	16.16	8.276	132.5	30.07
#1	9.861	-.0008	.0006	9.646	.0002	.0033	.0000	-.0003
#2	9.846	-.0019	.0008	9.678	.0002	.0030	-.0002	-.0002
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.870**	**9.806**	**.0000**	**-.0001**	**.9864**	**.99696**	**1.029**	**.9834**
Stddev	.010	.079	.000	.0001	.0070	.00906	.005	.0040
%RSD	.1024	.8009	2728.	52.85	.7074	.90839	.4689	.4021
#1	9.863	9.861	.0000	-.0002	.9914	1.0034	1.026	.9806
#2	9.877	9.750	.0000	-.0001	.9815	.99056	1.033	.9862
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4800.7**	**103950.**	**1593.9**	**1233.7**
Stddev	.1	721.	13.7	1.7
%RSD	.00271	.69336	.86136	.13844
#1	4800.8	103440.	1584.2	1234.9
#2	4800.6	104460.	1603.6	1232.5

Sample Name: CCB3 Acquired: 3/31/2011 16:22:42 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0011**	**.0010**	**.0030**	**.0000**	**.00005**	**-.0042**	**.0000**
Stddev	.0000	.0005	.0003	.0018	.000	.00004	.0006	.0000
%RSD	4.698	45.64	28.11	60.66	298.2	66.161	13.77	191.8
#1	-.0005	.0008	.0012	.0043	.0000	.00008	-.0038	.0000
#2	-.0005	.0015	.0008	.0017	.0000	.00003	-.0046	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0165**	**-.0002**	**-.0002**	**-.0004**	**.0005**	**-.0001**	**.0026**
Stddev	.000	.0056	.0003	.0003	.0000	.0000	.0001	.0010
%RSD	40.94	33.91	197.6	120.8	5.679	4.536	163.6	40.07
#1	.0000	.0205	-.0004	-.0004	-.0004	.0005	.0000	.0033
#2	.0000	.0125	.0001	.0000	-.0004	.0005	-.0001	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0091**	**-.0006**	**-.0042**	**.0001**	**-.0017**	**.0005**	**-.0001**
Stddev	.0001	.0062	.0000	.0034	.0000	.0010	.0002	.0003
%RSD	73.24	68.39	3.697	81.22	55.31	60.24	48.96	361.3
#1	-.0001	-.0047	-.0006	-.0066	.0001	-.0010	.0003	-.0003
#2	-.0002	-.0135	-.0006	-.0018	.0001	-.0025	.0006	.0001
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB3 Acquired: 3/31/2011 16:22:42 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0202**	**-.0004**	**.0002**	**-.0841**	**.0006**	**-.0001**	**.0000**	**.0000**
Stddev	.0812	.0012	.0004	.0110	.0004	.0000	.000	.0000
%RSD	402.2	307.3	243.0	13.08	68.51	18.04	174.0	19.22
#1	-.0776	.0004	.0004	-.0919	.0009	-.0001	.0000	.0000
#2	.0372	-.0012	-.0001	-.0763	.0003	-.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**-.0189**	**-.0001**	**.0016**	**-.0027**	**.00009**	**-.0002**	**.0076**
Stddev	.0021	.0190	.0001	.0003	.0002	.00044	.0022	.0024
%RSD	89.90	100.2	76.02	19.70	6.254	459.10	1209.	32.09
#1	.0038	-.0323	-.0002	.0014	-.0026	-.00021	.0014	.0058
#2	.0009	-.0055	-.0001	.0018	-.0028	.00040	-.0017	.0093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4950.2**	**108650.**	**1620.6**	**1305.3**
Stddev	1.3	272.	2.9	4.5
%RSD	.02695	.25000	.18086	.34405
#1	4951.2	108850.	1618.5	1302.2
#2	4949.3	108460.	1622.7	1308.5

Sample Name: K1102593-MB Acquired: 3/31/2011 16:25:20 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0020**	**-.0015**	**.0021**	**.0001**	**-.00005**	**-.0031**	**.0000**
#1	.0024	.0024	-.0006	.0011	.0005	-.00010	-.0033	.0000
#2	.0021	.0015	-.0024	.0031	-.0004	-.00001	-.0029	.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0123**	**.0029**	**-.0003**	**-.0002**	**-.0001**	**-.0002**	**-.0033**
#1	-.0001	.0298	.0030	-.0006	-.0002	-.0002	-.0009	.0008
#2	-.0001	-.0053	.0029	.0000	-.0002	.0000	.0004	-.0074

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**-.0005**	**-.0061**	**.0001**	**.0004**	**.0002**	**.0338**	**-.0017**
#1	-.0003	-.0006	-.0078	.0000	.0004	.0002	.0608	-.0003
#2	-.0008	-.0004	-.0044	.0001	.0003	.0002	.0068	-.0031

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.1502**	**.0001**	**-.0003**	**.0000**	**.0001**	**.1589**	**-.0205**
#1	.0003	-.1541	.0000	-.0007	.0002	.0002	.1584	-.0085
#2	-.0002	-.1462	.0001	.0002	-.0001	.0001	.1594	-.0324

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0017**	**-.0069**	**.00028**	**.0012**	**.0038**
#1	-.0002	.0022	-.0065	.00014	.0011	.0023
#2	-.0002	.0013	-.0074	.00043	.0013	.0054

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4907.2**	**108490.**	**1619.8**	**1295.6**
#1	4907.7	108360.	1629.1	1298.3
#2	4906.8	108630.	1610.5	1292.8

Sample Name: LCSW Acquired: 3/31/2011 16:27:58 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.139**	**2.462**	**2.457**	**4.896**	**.12340**	**.9766**	**1.252**	**1.225**
#1	5.112	2.460	2.455	4.920	.12302	.9731	1.252	1.222
#2	5.166	2.463	2.459	4.872	.12377	.9801	1.252	1.227

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.22**	**12.27**	**.4993**	**1.246**	**.6407**	**.6258**	**2.414**	**2.545**
#1	12.28	12.19	.4990	1.242	.6420	.6233	2.423	2.541
#2	12.16	12.36	.4996	1.250	.6395	.6284	2.405	2.550

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.59**	**1.221**	**.9998**	**1.241**	**12.40**	**2.346**	**.6014**	**12.37**
#1	12.66	1.222	.9986	1.236	12.43	2.342	.5988	12.37
#2	12.53	1.221	1.001	1.246	12.37	2.351	.6040	12.38

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**1.249**	**1.270**	**1.184**	**.2024**	**-.0169**	**-.0001**	**2.590**
#1	.0011	1.250	1.268	1.184	.2024	-.0310	-.0001	2.582
#2	.0015	1.247	1.272	1.184	.2024	-.0028	-.0002	2.599

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**-.0028**	**.00075**	**.0058**	**.0028**
#1	-.0009	.00081	.0058	.0033
#2	-.0048	.00068	.0058	.0023

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4802.1**	**104760.**	**1612.8**	**1232.0**
#1	4806.6	104740.	1611.9	1231.9
#2	4797.7	104780.	1613.8	1232.0

Sample Name: K1102593-001 Acquired: 3/31/2011 16:31:06 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	F **.0067**	**.0011**	**.0040**	**.0512**	**-.00003**	F **.0070**	**-.0002**
#1	.0022	.0082	.0001	.0054	.0518	-.00006	.0068	-.0001
#2	.0025	.0053	.0020	.0026	.0506	-.00001	.0072	-.0002

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	F **88.48**	F **.0004**	**.0001**	**.0010**	**.0010**	F **.0053**	**.0009**
#1	.0000	88.90	.0002	.0000	.0006	.0009	.0139	.0015
#2	.0001	88.06	.0007	.0002	.0014	.0012	-.0034	.0004

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.68**	**.0008**	**.0030**	**-.0101**	**5.712**	**.0035**	**.0001**	F **25.48**
#1	28.65	.0008	.0033	-.0099	5.680	.0051	-.0001	25.29
#2	28.70	.0008	.0027	-.0103	5.745	.0018	.0002	25.67

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0017**	F **.0018**	F **.0020**	**.3641**	**19.54**	**.0001**	**.0001**
#1	.0001	.0021	.0017	.0020	.3646	19.40	.0000	.0003
#2	-.0001	.0013	.0019	.0019	.3635	19.68	.0002	-.0001

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**.0023**	**.33759**	**.0022**	**12.45**
#1	-.0007	.33945	.0023	12.45
#2	.0054	.33572	.0021	12.46

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4743.0**	**102570.**	**1613.3**	**1190.8**
#1	4738.2	102790.	1602.0	1196.0
#2	4747.7	102350.	1624.6	1185.5

Sample Name: K1102593-001D Acquired: 3/31/2011 16:34:35 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	F **.0038**	**.0013**	**.0011**	**.0505**	**-.00007**	F **.0044**	**-.0002**
#1	.0016	.0029	.0030	.0005	.0507	-.00006	.0050	-.0002
#2	.0016	.0047	-.0004	.0018	.0502	-.00007	.0038	-.0002

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	F **88.40**	F **.0000**	**.0002**	**.0004**	**.0014**	F **.0019**	**.0003**
#1	.0001	88.43	.0004	.0001	.0004	.0025	-.0015	.0006
#2	.0001	88.37	-.0004	.0003	.0005	.0002	.0052	.0000

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.48**	**.0008**	**.0025**	**-.0097**	**5.685**	**-.0007**	**-.0001**	F **25.27**
#1	28.47	.0008	.0025	-.0095	5.648	-.0022	.0002	25.36
#2	28.48	.0008	.0026	-.0098	5.722	.0008	-.0004	25.19

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0014**	F **.0014**	F **.0016**	**.2975**	**19.38**	**.0001**	**.0006**
#1	-.0003	.0014	.0014	.0016	.3007	19.40	.0001	.0002
#2	.0007	.0014	.0015	.0016	.2944	19.35	.0001	.0010

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**.0036**	**.33811**	**.0028**	**12.39**
#1	.0027	.33831	.0029	12.37
#2	.0045	.33792	.0027	12.41

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4722.6**	**102600.**	**1601.8**	**1182.1**
#1	4713.5	102430.	1602.9	1179.3
#2	4731.7	102760.	1600.7	1185.0

Sample Name: K1102593-001L Acquired: 3/31/2011 16:38:48 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0040**	**-.0008**	**.0000**	**.0096**	**-.00006**	**-.0033**	**-.0001**
#1	.0005	.0043	-.0009	-.0038	.0093	-.00004	-.0037	-.0001
#2	.0006	.0038	-.0007	.0038	.0099	-.00007	-.0029	-.0001

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**18.40**	**.0000**	**.0000**	**-.0001**	**-.0005**	**.0041**	**-.0003**
#1	.0001	18.41	.0001	.0002	-.0004	-.0009	.0010	-.0005
#2	.0001	18.39	-.0001	-.0001	.0003	-.0002	.0071	-.0001

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.780**	**5.899**	**.0002**	**.0008**	**-.0020**	**1.086**	**.0005**	**-.0002**
#1	5.794	5.909	.0002	.0008	-.0019	1.092	.0012	.0000
#2	5.766	5.889	.0002	.0009	-.0020	1.080	-.0002	-.0004

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.036**	**.0004**	**.0001**	**.0004**	**.0005**	**.0741**	**3.935**	**-.0002**
#1	5.061	.0008	.0001	.0004	.0004	.0737	3.928	-.0002
#2	5.012	-.0001	.0002	.0003	.0005	.0745	3.941	-.0001

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**-.0015**	**.06910**	**.0008**	**2.567**
#1	.0002	-.0036	.06895	.0013	2.569
#2	.0010	.0007	.06926	.0003	2.566

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4803.3**	**105190.**	**1595.1**	**1250.3**
#1	4806.8	105320.	1595.9	1250.0
#2	4799.7	105060.	1594.3	1250.6

Sample Name: K1102593-001S Acquired: 3/31/2011 16:42:14 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.939**	**.4818**	**.9775**	**2.027**	**.04976**	**1.008**	**.0516**	**.0485**
#1	1.929	.4819	.9779	2.025	.04985	1.011	.0517	.0486
#2	1.949	.4816	.9771	2.029	.04967	1.005	.0516	.0485

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **97.65**	**.1984**	**.4868**	**.2565**	**.2415**	**.9763**	**.5124**	F **37.99**
#1	97.58	.1986	.4849	.2566	.2422	.9820	.5111	38.06
#2	97.72	.1982	.4886	.2563	.2409	.9705	.5138	37.93

Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4825**	**1.011**	**.4693**	F **15.73**	**.9516**	**.0446**	F **35.33**	**.0006**
#1	.4818	1.009	.4672	15.72	.9543	.0446	35.36	.0011
#2	.4831	1.012	.4714	15.74	.9489	.0445	35.30	.0000

Elem	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5081**	**.5309**	**.4761**	**.5256**	**19.27**	**.0003**	**1.008**	**.0037**
#1	.5059	.5292	.4761	.5239	19.29	.0006	1.005	.0029
#2	.5104	.5327	.4761	.5274	19.25	.0001	1.011	.0046

Elem	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	**.33542**	**.0067**	**12.62**
#1	.33512	.0103	12.61
#2	.33571	.0031	12.63

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4691.7**	**101570.**	**1590.5**	**1161.2**
#1	4696.7	101820.	1591.6	1161.5
#2	4686.7	101320.	1589.4	1160.8

Sample Name: K1102593-002 Acquired: 3/31/2011 16:46:11 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	F **.0035**	**-.0024**	**.0018**	**.1899**	**-.00003**	F **.0152**	**-.0002**
#1	.0002	.0030	-.0015	.0026	.1901	-.00001	.0152	-.0002
#2	.0005	.0040	-.0033	.0010	.1898	-.00006	.0153	-.0002

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	F **168.4**	F **-.0003**	**.0006**	**.0009**	**.0023**	F **-.0020**	**.0007**
#1	.0001	168.0	-.0004	.0004	.0008	.0030	-.0026	.0002
#2	.0000	168.8	-.0002	.0007	.0009	.0016	-.0014	.0011

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **55.10**	**.1231**	**.0024**	**-.0117**	F **29.33**	**.0009**	**.0002**	F **158.1**
#1	55.30	.1231	.0025	-.0119	29.49	-.0003	.0003	159.0
#2	54.90	.1230	.0023	-.0114	29.18	.0022	.0002	157.1

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0036**	**.0116**	F **.0099**	**.3425**	**22.07**	**.0003**	**.0020**
#1	-.0004	.0044	.0117	.0099	.3457	22.24	.0003	.0031
#2	.0002	.0028	.0114	.0100	.3393	21.91	.0004	.0009

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**.0083**	**.95943**	**.0027**	**15.13**
#1	.0082	.95939	.0024	15.11
#2	.0084	.95947	.0030	15.15

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4539.1**	**97614.**	**1562.5**	**1084.0**
#1	4527.6	97656.	1572.8	1084.1
#2	4550.6	97572.	1552.2	1083.8

Sample Name: K1102241-MB 1/2 Acquired: 3/31/2011 16:49:43 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0021**	**-.0002**	**-.0015**	**-.0005**	**-.00010**	**-.0064**	**.0000**
#1	.0013	.0024	-.0005	-.0009	-.0008	-.00015	-.0064	.0000
#2	.0015	.0019	.0002	-.0022	-.0002	-.00005	-.0064	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0237**	**.0025**	**.0002**	**-.0002**	**.0007**	**-.0001**	**-.0021**
#1	.0000	.0284	.0030	.0003	-.0003	.0002	.0001	.0058
#2	-.0001	.0189	.0021	.0001	-.0001	.0011	-.0003	-.0099

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0001**	**.0003**	**.0000**	**.0005**	**.0001**	**.0518**	**-.0012**
#1	-.0001	.0002	.0007	.0000	.0006	.0002	.0669	-.0028
#2	-.0003	.0000	-.0002	.0000	.0004	.0000	.0367	.0004

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.1004**	**F .0120**	**-.0002**	**.0001**	**.0006**	**.0130**	**-.0310**
#1	-.0006	.1333	.0114	-.0005	.0002	.0006	.0155	-.0407
#2	-.0002	.0676	.0126	.0001	.0001	.0005	.0104	-.0214

Elem	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**-.0001**	**-.0045**	**.00008**	**.0004**	**.0024**
#1	-.0007	.0000	-.0046	.00022	.0012	.0021
#2	-.0005	-.0002	-.0044	-.00006	-.0004	.0027

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4943.2**	**109720.**	**1615.1**	**1317.4**
#1	4930.0	109450.	1613.1	1315.6
#2	4956.4	110000.	1617.2	1319.2

Reran LL Na out 3/31/11

Sample Name: LCSW 1/2 Acquired: 3/31/2011 16:53:07 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.300**	**2.525**	**2.497**	**5.152**	**.12511**	**.4725**	**1.275**	**1.249**
#1	5.303	2.528	2.500	5.139	.12476	.4708	1.279	1.249
#2	5.296	2.523	2.494	5.165	.12547	.4742	1.271	1.249

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.75**	**12.87**	**.5243**	**1.283**	**.6573**	**.6677**	**2.554**	**2.599**
#1	12.72	12.82	.5248	1.283	.6584	.6653	2.544	2.607
#2	12.78	12.93	.5238	1.284	.6562	.6702	2.565	2.590

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.97**	**1.287**	**.5257**	**1.273**	**13.30**	**2.244**	**.6251**	**13.19**
#1	13.03	1.285	.5251	1.272	13.34	2.246	.6217	13.26
#2	12.90	1.290	.5264	1.274	13.25	2.241	.6284	13.12

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0135**	**1.326**	**1.282**	**1.203**	**.0173**	**-.0331**	**-.0005**	**2.586**
#1	.0137	1.325	1.287	1.204	.0149	-.0114	-.0005	2.596
#2	.0132	1.327	1.277	1.203	.0198	-.0549	-.0005	2.576

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**-.0056**	**.00078**	**.0093**	**.0030**
#1	-.0049	.00072	.0082	.0036
#2	-.0063	.00085	.0105	.0024

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4851.2**	**106570.**	**1613.6**	**1250.6**
#1	4857.4	106330.	1622.8	1248.3
#2	4844.9	106820.	1604.3	1253.0

3/31/11

Sample Name: LCSWD 1/2 Acquired: 3/31/2011 16:56:15 Type: Unk
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.425**	**2.544**	**2.523**	**5.262**	**.12511**	**.4728**	**1.308**	**1.271**
#1	5.405	2.548	2.529	5.278	.12501	.4720	1.309	1.271
#2	5.444	2.541	2.518	5.246	.12522	.4736	1.306	1.270

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.90**	**13.17**	**.5362**	**1.306**	**.6721**	**.6608**	**2.599**	**2.656**
#1	12.97	13.08	.5358	1.308	.6729	.6609	2.589	2.664
#2	12.83	13.26	.5366	1.304	.6712	.6608	2.608	2.648

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.19**	**1.302**	**.5389**	**1.298**	**13.44**	**2.280**	**.6242**	**13.15**
#1	13.27	1.302	.5390	1.300	13.58	2.285	.6247	13.18
#2	13.11	1.301	.5388	1.297	13.30	2.275	.6238	13.12

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0133**	**1.351**	**1.312**	**1.218**	**.0190**	**-.0337**	**-.0005**	**2.632**
#1	.0134	1.353	1.317	1.219	.0190	-.0374	-.0004	2.642
#2	.0132	1.350	1.307	1.217	.0190	-.0300	-.0006	2.622

Elem	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	**-.0050**	**.00093**	**.0090**	**.0001**
#1	-.0056	.00112	.0090	-.0001
#2	-.0044	.00075	.0090	.0003

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4816.5**	**105480.**	**1602.5**	**1238.8**
#1	4822.5	105600.	1605.1	1237.5
#2	4810.5	105350.	1599.9	1240.1

3/31/11

Sample Name: CCVA4 Acquired: 3/31/2011 16:59:19 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2422**	**.2566**	**.2462**	**.2436**	**.2432**	**.24121**	**.2343**	**.2431**
Stddev	.0007	.0023	.0004	.0018	.0004	.00003	.0033	.0001
%RSD	.2889	.9117	.1607	.7315	.1667	.01131	1.407	.0451
#1	.2417	.2550	.2460	.2449	.2435	.24119	.2320	.2430
#2	.2427	.2583	.2465	.2423	.2429	.24123	.2367	.2432
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2433**	**.2523**	**.2484**	**.2427**	**.2479**	**.2435**	**.2403**	**.2347**
Stddev	.0010	.0042	.0001	.0014	.0016	.0005	.0004	.0082
%RSD	.4199	1.659	.0238	.5724	.6431	.1883	.1555	3.507
#1	.2425	.2494	.2485	.2417	.2468	.2432	.2406	.2289
#2	.2440	.2553	.2484	.2437	.2491	.2438	.2401	.2405
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2463**	**.2565**	**.2430**	**.2363**	**.2384**	**.2249**	**.2460**	**.2476**
Stddev	.0006	.0191	.0009	.0022	.0011	.0000	.0006	.0012
%RSD	.2596	7.434	.3906	.9345	.4815	.0022	.2457	.4781
#1	.2467	.2700	.2437	.2379	.2376	.2249	.2456	.2467
#2	.2458	.2430	.2423	.2348	.2392	.2249	.2464	.2484
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA4 Acquired: 3/31/2011 16:59:19 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.422**	**.2402**	**.2404**	**.1525**	**.2485**	**.2417**	**.2463**	**.2409**
Stddev	.097	.0011	.0015	.0388	.0018	.0016	.0002	.0003
%RSD	3.984	.4775	.6364	25.48	.7217	.6786	.0736	.1189
#1	2.491	.2394	.2393	.1250	.2472	.2405	.2462	.2407
#2	2.354	.2410	.2415	.1799	.2497	.2428	.2465	.2411
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0868**	**.2451**	**.2519**	**-.0050**	**.00025**	**.0022**	**.0035**
Stddev	.0003	.0068	.0005	.0001	.0031	.00005	.0014	.0006
%RSD	23.30	7.797	.1941	.0531	61.53	21.692	63.30	17.24
#1	.0017	.0916	.2447	.2518	-.0072	.00029	.0032	.0031
#2	.0012	.0820	.2454	.2520	-.0029	.00021	.0012	.0039
Check ?	None	None	Chk Pass	Chk Pass	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4874.0	106530.	1574.9	1289.0
Stddev	11.8	58.	4.6	.3
%RSD	.24310	.05467	.29176	.02712
#1	4882.3	106490.	1571.6	1289.2
#2	4865.6	106570.	1578.1	1288.7

Sample Name: CCVB4 Acquired: 3/31/2011 17:02:30 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.070**	**9.971**	**.0013**	**.9720**	**10.03**	**.00002**	**-.0033**	**-.0004**
Stddev	.013	.132	.0019	.0027	.03	.00001	.0002	.0000
%RSD	.1810	1.325	145.0	.2801	.3302	41.033	4.573	1.860
#1	7.061	9.877	.0026	.9701	10.00	.00001	-.0034	-.0004
#2	7.079	10.06	.0000	.9739	10.05	.00002	-.0032	-.0004
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**9.845**	**9.944**	**.0003**	**.0000**	**.0068**	**-.0004**	**9.734**
Stddev	.0001	.069	.027	.0001	.000	.0001	.0000	.100
%RSD	28.51	.6982	.2717	22.85	152.2	1.506	5.162	1.022
#1	.0003	9.796	9.925	.0003	.0000	.0068	-.0005	9.664
#2	.0002	9.893	9.964	.0002	-.0001	.0067	-.0004	9.804
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**9.617**	**9.775**	**9.966**	**.9864**	**.9526**	**.0012**	**-.0058**
Stddev	.0006	.014	.046	.023	.0010	.0012	.0001	.0002
%RSD	99.09	.1404	.4680	.2351	.1035	.1243	6.109	3.193
#1	.0002	9.607	9.743	9.982	.9871	.9534	.0011	-.0059
#2	.0010	9.626	9.808	9.949	.9856	.9518	.0012	-.0057
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB4 Acquired: 3/31/2011 17:02:30 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.745**	**-.0007**	**-.0001**	**9.645**	**.0008**	**.0025**	**.0001**	**-.0002**
Stddev	.115	.0015	.0006	.010	.0004	.0004	.0000	.0000
%RSD	1.183	204.2	429.5	.1062	44.32	17.62	11.80	15.67
#1	9.827	.0003	-.0006	9.638	.0010	.0029	.0001	-.0002
#2	9.664	-.0018	.0003	9.653	.0005	.0022	.0001	-.0002
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.764**	**9.628**	**.0001**	**.0008**	**.9675**	**1.0065**	**1.023**	**.9699**
Stddev	.027	.018	.0003	.0000	.0018	.0036	.001	.0082
%RSD	.2808	.1817	529.6	5.497	.1836	.35263	.1041	.8418
#1	9.745	9.616	.0002	.0009	.9687	1.0040	1.024	.9641
#2	9.784	9.640	-.0001	.0008	.9662	1.0090	1.023	.9757
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4788.6**	**104000.**	**1561.8**	**1218.5**
Stddev	9.3	444.	9.3	3.1
%RSD	.19453	.42672	.59332	.25302
#1	4782.0	103690.	1568.4	1216.3
#2	4795.2	104310.	1555.3	1220.7

Sample Name: CCB4 Acquired: 3/31/2011 17:06:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0008**	**-.0011**	**.0014**	**.0008**	**-.00002**	**-.0062**
Stddev	.0003	.0017	.0001	.0001	.0007	.00004	.0005
%RSD	70.78	212.6	7.796	9.298	79.97	171.35	7.360
#1	-.0002	.0020	-.0011	.0015	.0004	.00000	-.0065
#2	-.0006	-.0004	-.0010	.0013	.0013	-.00005	-.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0084**	**-.0001**	**.0000**	**-.0003**	**.0000**
Stddev	.000	.0001	.0204	.0000	.0004	.0000	.000
%RSD	622.7	766.8	241.8	29.57	8498.	1.713	671.8
#1	.0000	.0001	-.0060	.0000	-.0003	-.0003	-.0002
#2	.0000	-.0001	.0229	-.0001	.0003	-.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**.0099**	**.0013**	**.0158**	**-.0006**	**-.0051**	**.0001**
Stddev	.0000	.0008	.0004	.0047	.0001	.0029	.0001
%RSD	3.329	8.170	27.69	29.78	19.21	56.25	57.91
#1	-.0007	.0105	.0011	.0191	-.0007	-.0031	.0001
#2	-.0007	.0094	.0016	.0125	-.0005	-.0071	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB4 Acquired: 3/31/2011 17:06:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0006**	**.0001**	**.0082**	**-.0013**	**.0000**	**-.0358**
Stddev	.0008	.0001	.0005	.0843	.0004	.000	.0350
%RSD	61.68	13.27	374.7	1031.	29.70	4410.	97.67
#1	.0018	.0006	.0005	.0678	-.0016	.0002	-.0606
#2	.0007	.0007	-.0002	-.0515	-.0010	-.0002	-.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0002**	**-.0002**	**.0000**	**-.0017**	**-.0412**	**-.0001**
Stddev	.0001	.0003	.0000	.0000	.0014	.0237	.0001
%RSD	14.55	168.0	15.62	10.43	83.13	57.60	113.9
#1	.0005	-.0004	-.0001	.0000	-.0027	-.0244	.0000
#2	.0006	.0000	-.0002	.0000	-.0007	-.0579	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0035**	F **.00044**	**.0006**	**.0053**
Stddev	.0021	.0015	.00024	.0024	.0008
%RSD	260.8	41.54	55.440	397.9	15.54
#1	.0022	-.0025	.00027	-.0011	.0047
#2	-.0007	-.0046	.00061	.0023	.0059
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00020		
Low Limit			-.00020		

Sample Name: CCB4 Acquired: 3/31/2011 17:06:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4881.4	106590.	1577.8	1286.4
Stddev	4.9	372.	14.0	.0
%RSD	.10097	.34853	.88716	.00053
#1	4877.9	106330.	1587.7	1286.4
#2	4884.9	106850.	1567.9	1286.4

Sample Name: LLCCV1 Acquired: 3/31/2011 17:10:09 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0508**	**.0541**	**.0493**	**.1033**	**.0050**	**.00511**	**.0479**	**.0050**
Stddev	.0000	.0004	.0004	.0018	.0003	.00001	.0005	.0000
%RSD	.0307	.8060	.8274	1.768	5.951	.21990	1.008	.0563
#1	.0508	.0544	.0496	.1046	.0052	.00511	.0483	.0050
#2	.0508	.0538	.0490	.1020	.0048	.00512	.0476	.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Report Ca3933 mmm 3/31/11

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051**	F **.0737**	**.0540**	**.0048**	**.0106**	**.0106**	**.0110**	**.0211**
Stddev	.0000	.0091	.0004	.0003	.0004	.0002	.0007	.0034
%RSD	.8844	12.29	.7602	7.228	3.620	2.030	6.653	16.02
#1	.0051	.0801	.0543	.0045	.0108	.0104	.0105	.0187
#2	.0051	.0673	.0537	.0050	.0103	.0108	.0116	.0235
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0500						
Range		30.00%						

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0524**	**.0513**	**.0199**	**.0182**	**.0051**	**.0055**	**.0107**	**.0210**
Stddev	.0006	.0164	.0000	.0006	.0001	.0020	.0003	.0001
%RSD	1.191	31.98	.1196	3.060	2.072	36.55	2.702	.4305
#1	.0528	.0629	.0199	.0178	.0050	.0069	.0109	.0209
#2	.0520	.0397	.0199	.0186	.0051	.0041	.0105	.0210
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: LLCCV1 Acquired: 3/31/2011 17:10:09 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4475**	**.0991**	**.0097**	F **.1025**	**.0527**	**.0097**	**.0104**	**.0102**
Stddev	.0077	.0011	.0003	.0454	.0003	.0002	.0000	.0000
%RSD	1.715	1.145	2.925	44.26	.6306	2.333	.1357	.0232
#1	.4530	.0983	.0099	.1346	.0525	.0095	.0104	.0102
#2	.4421	.0999	.0095	.0704	.0530	.0098	.0104	.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.2000				
Range				-30.00%				

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2009**	**.3885**	**.0103**	**.1093**	F **.0059**	**.01067**	**.0018**	**.0036**
Stddev	.0017	.0066	.0000	.0004	.0032	.00039	.0019	.0004
%RSD	.8389	1.692	.0406	.3946	54.78	3.6243	104.0	11.34
#1	.2021	.3838	.0103	.1090	.0081	.01040	.0032	.0033
#2	.1997	.3931	.0103	.1096	.0036	.01095	.0005	.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	None
Value					.0100			
Range					-30.00%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4861.9**	**106010.**	**1568.4**	**1286.0**
Stddev	3.4	126.	15.5	2.3
%RSD	.07080	.11908	.98803	.18268
#1	4859.4	106100.	1557.4	1287.6
#2	4864.3	105920.	1579.4	1284.3

Sample Name: LLCCV1 Acquired: 3/31/2011 17:14:01 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0495**	**.0522**	**.0500**	**.1015**	**.0048**	**.00516**	**.0482**	**.0049**
Stddev	.0000	.0009	.0031	.0005	.0002	.00003	.0010	.0000
%RSD	.0849	1.642	6.137	.4800	4.924	.50838	2.089	.3526
#1	.0495	.0528	.0478	.1012	.0050	.00518	.0475	.0049
#2	.0494	.0516	.0522	.1019	.0046	.00515	.0489	.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050**	F **.0720**	**.0530**	**.0048**	**.0099**	**.0101**	**.0108**	**.0217**
Stddev	.0000	.0026	.0004	.0002	.0001	.0004	.0005	.0047
%RSD	.5180	3.665	.7255	4.414	1.392	4.322	4.394	21.57
#1	.0050	.0738	.0528	.0049	.0098	.0104	.0104	.0184
#2	.0050	.0701	.0533	.0046	.0100	.0098	.0111	.0250
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0500						
Range		30.00%						

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0503**	**.0192**	**.0198**	**.0152**	**.0050**	**.0051**	**.0105**	**.0203**
Stddev	.0005	.0781	.0000	.0025	.0000	.0015	.0000	.0000
%RSD	1.012	406.5	.2014	16.27	.0818	30.08	.0879	.1184
#1	.0499	.0744	.0198	.0134	.0050	.0040	.0105	.0203
#2	.0507	-.0360	.0199	.0169	.0050	.0062	.0105	.0203
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

3/31/11

Sample Name: LLCCV1 Acquired: 3/31/2011 17:14:01 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3825**	**.0993**	**.0099**	F **.1039**	**.0508**	**.0102**	**.0100**	**.0102**
Stddev	.1157	.0010	.0003	.0264	.0006	.0005	.0002	.0000
%RSD	30.24	1.039	2.541	25.37	1.092	5.335	2.177	.1320
#1	.4643	.0986	.0101	.1226	.0504	.0105	.0101	.0102
#2	.3007	.1000	.0097	.0853	.0512	.0098	.0098	.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.2000				
Range				-30.00%				

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2043**	**.3698**	**.0103**	**.1052**	F **.0043**	**.01028**	**-.0018**	**.0045**
Stddev	.0049	.0076	.0001	.0001	.0001	.00014	.0013	.0011
%RSD	2.387	2.050	.7343	.0835	1.729	1.3396	73.08	23.47
#1	.2078	.3751	.0103	.1052	.0042	.01018	-.0009	.0038
#2	.2009	.3644	.0102	.1053	.0043	.01038	-.0027	.0052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	None
Value					.0100			
Range					-30.00%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4984.9	107520.	1566.0	1324.7
Stddev	14.4	641.	1.0	4.3
%RSD	.28941	.59652	.06073	.32665
#1	4974.7	107070.	1566.7	1321.6
#2	4995.1	107970.	1565.4	1327.7

3/31/11

Sample Name: LLCCV1 2X Acquired: 3/31/2011 17:16:07 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0981**	**.1059**	**.1013**	**.2007**	**.0090**	**.01011**	**.1028**	**.0097**
Stddev	.0000	.0012	.0004	.0035	.0014	.00010	.0011	.0001
%RSD	.0059	1.098	.4207	1.745	15.39	.97440	1.073	.5658
#1	.0981	.1067	.1010	.1982	.0080	.01004	.1036	.0097
#2	.0981	.1051	.1016	.2032	.0100	.01018	.1020	.0097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098**	**.1236**	**.1041**	**.0100**	**.0197**	**.0201**	**.0198**	**.0488**
Stddev	.0002	.0180	.0004	.0005	.0004	.0002	.0000	.0012
%RSD	2.104	14.57	.3522	4.955	2.168	1.045	.0389	2.556
#1	.0100	.1363	.1043	.0097	.0200	.0200	.0198	.0479
#2	.0097	.1108	.1038	.0104	.0194	.0203	.0198	.0497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1000**	**.0794**	**.0394**	**.0360**	**.0098**	**.0102**	**.0200**	**.0392**
Stddev	.0003	.0920	.0001	.0001	.0001	.0005	.0001	.0003
%RSD	.3461	115.8	.2449	.3327	1.107	4.669	.3393	.6942
#1	.1003	.0144	.0395	.0359	.0097	.0099	.0200	.0394
#2	.0998	.1445	.0393	.0361	.0099	.0105	.0201	.0390
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: LLCCV1 2X Acquired: 3/31/2011 17:16:07 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7959**	**.2003**	**.0198**	**.2917**	**.0996**	**.0196**	**.0201**	**.0202**
Stddev	.0279	.0006	.0003	.0022	.0001	.0006	.0001	.0000
%RSD	3.499	.3110	1.296	.7670	.0515	2.905	.3208	.1169
#1	.8155	.2008	.0200	.2933	.0997	.0192	.0201	.0202
#2	.7762	.1999	.0197	.2901	.0996	.0200	.0200	.0202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4024**	**.7822**	**.0201**	**.2044**	F **.0080**	**.01975**	**.0004**	**.0044**
Stddev	.0033	.0011	.0002	.0019	.0004	.00001	.0028	.0006
%RSD	.8099	.1392	1.034	.9136	5.234	.07154	750.8	13.52
#1	.4001	.7830	.0202	.2057	.0077	.01974	-.0016	.0048
#2	.4047	.7815	.0199	.2031	.0083	.01976	.0024	.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	None
Value					.0200			
Range					-30.00%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5007.2**	**108650.**	**1604.8**	**1330.7**
Stddev	8.8	450.	2.3	7.0
%RSD	.17514	.41403	.14210	.52313
#1	5001.0	108970.	1603.2	1325.8
#2	5013.4	108340.	1606.4	1335.7

Sample Name: TLLCCV1 Acquired: 3/31/2011 17:18:54 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0023**	**.0098**	**.0093**	**.0020**	**.00017**	F **.0049**
Stddev	.0001	.0010	.0007	.0010	.0003	.00007	.0014
%RSD	4.533	42.36	7.183	11.05	16.20	38.035	27.94
#1	.0017	.0016	.0103	.0100	.0017	.00013	.0039
#2	.0016	.0030	.0093	.0086	.0022	.00022	.0058
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0100
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	**.0274**	**.0043**	**.0021**	**.0008**	**.0019**
Stddev	.0000	.0000	.0061	.0000	.0000	.0001	.0004
%RSD	.0696	7.357	22.40	.0714	2.051	7.301	23.03
#1	.0005	.0005	.0231	.0043	.0021	.0007	.0016
#2	.0005	.0004	.0317	.0043	.0021	.0008	.0022
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Rerun mmm 3/31/11

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	F **.0137**	**.0099**	**.0375**	F **.0012**	**-.0015**	**.0007**
Stddev	.0004	.0042	.0002	.0021	.0001	.0051	.0000
%RSD	18.12	30.56	1.648	5.707	5.448	341.6	4.812
#1	.0020	.0107	.0100	.0390	.0011	-.0051	.0007
#2	.0026	.0166	.0098	.0360	.0012	.0021	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Fail	None	Chk Pass
Value		.0100			.0020		
Range		30.00%			-30.00%		

* 2x mmm 3/31/11

Sample Name: TLLCCV1 Acquired: 3/31/2011 17:18:54 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0022**	**.0021**	**.1000**	**.0182**	**.0021**	F **.0375**
Stddev	.0018	.0003	.0002	.0054	.0003	.0005	.0000
%RSD	151.4	12.62	7.800	5.358	1.659	25.34	.0618
#1	-.0001	.0024	.0020	.1038	.0180	.0017	.0376
#2	.0025	.0020	.0022	.0962	.0184	.0025	.0375
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.2000
Range							-30.00%

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109**	**.0017**	**.0018**	**.0020**	**.0231**	F **.0309**	**.0008**
Stddev	.0001	.0001	.0001	.0000	.0009	.0025	.0001
%RSD	1.331	4.597	6.972	.9368	3.754	8.188	12.45
#1	.0108	.0016	.0019	.0020	.0237	.0327	.0008
#2	.0110	.0017	.0018	.0020	.0225	.0291	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						.0500	
Range						-30.00%	

Rerun mmf 3/31/11

2X mmf 3/31/11

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0109**	F **.0030**	F **.00006**	**.0565**	**.0538**
Stddev	.0007	.0004	.00017	.0012	.0014
%RSD	6.223	12.61	299.53	2.122	2.570
#1	.0104	.0027	-.00007	.0573	.0547
#2	.0113	.0032	.00018	.0556	.0528
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value		.0100	.00020		
Range		-30.00%	-30.000%		

Sample Name: TLLCCV1 Acquired: 3/31/2011 17:18:54 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4876.2	105520.	1572.2	1290.3
Stddev	18.4	51.	7.7	.9
%RSD	.37657	.04844	.49271	.06798
#1	4863.2	105560.	1577.7	1289.7
#2	4889.1	105480.	1566.7	1290.9

Sample Name: TLLCCV1 Acquired: 3/31/2011 17:21:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B Rerun

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0017**	**.0103**	**.0113**	**.0021**	**.00020**	F **.0043**	**.0005**
Stddev	.0001	.0006	.0000	.0007	.0002	.00007	.0002	.0001
%RSD	6.744	32.46	.1588	6.551	9.792	35.983	4.426	10.47
#1	.0017	.0021	.0103	.0118	.0019	.00025	.0041	.0005
#2	.0015	.0013	.0103	.0108	.0022	.00015	.0044	.0005
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value							.0100	
Range							-30.00%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0194**	**.0040**	**.0018**	**.0008**	**.0015**	F **.0010**	**.0099**
Stddev	.0001	.0226	.0002	.0003	.0003	.0003	.0001	.0057
%RSD	14.38	116.4	4.062	15.47	35.19	17.73	14.18	57.55
#1	.0005	.0355	.0039	.0016	.0006	.0013	.0009	.0139
#2	.0004	.0034	.0041	.0020	.0010	.0017	.0011	.0059
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value							.0020	
Range							-30.00%	

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100**	**.0033**	F **.0012**	**-.0046**	**.0007**	**.0009**	**.0022**	**.0021**
Stddev	.0005	.0202	.0001	.0016	.0000	.0047	.0002	.0002
%RSD	5.421	618.8	5.059	33.63	.9669	541.6	10.90	10.01
#1	.0096	.0175	.0012	-.0057	.0007	.0042	.0020	.0019
#2	.0104	-.0110	.0012	-.0035	.0007	-.0025	.0023	.0022
Check ?	Chk Pass	None	Chk Fail	None	Chk Pass	None	Chk Pass	Chk Pass
Value			.0020					
Range			-30.00%					

Sample Name: TLLCCV1 Acquired: 3/31/2011 17:21:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.1753**	**.0178**	**.0018**	F **.0911**	**.0103**	**.0018**	**.0020**	**.0020**
Stddev	.0745	.0003	.0002	.0018	.0006	.0003	.0000	.0001
%RSD	42.49	1.662	9.043	1.928	6.024	18.67	2.311	3.894
#1	.2279	.0175	.0017	.0898	.0099	.0020	.0020	.0020
#2	.1226	.0180	.0019	.0923	.0107	.0015	.0020	.0021
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.1000			.2000				
Range	30.00%			-30.00%				

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0176**	F **.0334**	**.0008**	**.0112**	F **.0025**	**.00018**	**.0537**	**.0551**
Stddev	.0004	.0203	.0002	.0008	.0022	.00007	.0031	.0024
%RSD	1.999	60.88	18.04	7.239	87.98	36.811	5.683	4.359
#1	.0178	.0190	.0007	.0118	.0009	.00023	.0516	.0534
#2	.0173	.0477	.0009	.0106	.0040	.00014	.0559	.0568
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.0500			.0100			
Range		-30.00%			-30.00%			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4913.4**	**109850.**	**1595.3**	**1297.6**
Stddev	41.5	2048.	4.6	12.9
%RSD	.84492	1.8646	.28833	.99666
#1	4942.8	111290.	1598.6	1306.7
#2	4884.1	108400.	1592.1	1288.4

Sample Name: TLLCCV1 2X Acquired: 3/31/2011 17:23:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0050**	**.0183**	**.0209**	**.0043**	**.00040**	**.0141**
Stddev	.0000	.0020	.0004	.0015	.0003	.00004	.0001
%RSD	.8018	39.72	2.392	6.990	7.476	10.097	.3785
#1	.0035	.0064	.0187	.0220	.0041	.00037	.0140
#2	.0035	.0036	.0180	.0199	.0046	.00043	.0141
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0010**	**.0375**	**.0082**	**.0040**	**.0017**	**.0037**
Stddev	.0000	.0000	.0042	.0002	.0000	.0004	.0000
%RSD	3.104	2.021	11.15	1.893	.6482	25.44	.2519
#1	.0010	.0010	.0345	.0081	.0040	.0014	.0037
#2	.0009	.0010	.0404	.0083	.0040	.0020	.0037
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038**	**.0206**	**.0201**	**.0084**	**.0029**	**.0006**	**.0013**
Stddev	.0002	.0017	.0005	.0535	.0000	.0013	.0000
%RSD	6.499	8.058	2.438	636.4	1.024	233.1	.6894
#1	.0039	.0194	.0205	-.0294	.0030	.0015	.0013
#2	.0036	.0218	.0198	.0463	.0029	-.0004	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
Value							
Range							

Sample Name: TLLCCV1 2X Acquired: 3/31/2011 17:23:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0041**	**.0042**	**.1727**	**.0387**	**.0036**	F **.2509**
Stddev	.0025	.0001	.0005	.0142	.0016	.0006	.0282
%RSD	104.2	1.767	12.20	8.235	4.222	16.95	11.25
#1	.0006	.0041	.0038	.1626	.0398	.0041	.2310
#2	.0042	.0042	.0045	.1827	.0375	.0032	.2709
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.4000
Range							-30.00%

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194**	**.0037**	**.0040**	**.0041**	**.0378**	**.0802**	**.0018**
Stddev	.0005	.0001	.0001	.0000	.0018	.0136	.0001
%RSD	2.523	1.414	2.452	.2144	4.747	16.95	6.818
#1	.0191	.0037	.0039	.0041	.0391	.0706	.0019
#2	.0198	.0036	.0040	.0041	.0366	.0898	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	Li6707	Sr4077	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0210**	F **.0056**	F **.00023**	**.1081**	**.1069**
Stddev	.0004	.0023	.00015	.0008	.0006
%RSD	1.816	41.23	67.683	.7608	.5717
#1	.0207	.0040	.00033	.1075	.1073
#2	.0212	.0073	.00012	.1087	.1065
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value		.0200	.00040		
Range		-30.00%	-30.000%		

Sample Name: TLLCCV1 2X Acquired: 3/31/2011 17:23:49 Type: QC
Method: 2011A(v5) Mode: CONC Corr. Factor: 1.000000
User: admin : : :
Comment: 033111B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4897.5	106110.	1583.1	1302.4
Stddev	8.6	129.	5.0	1.8
%RSD	.17551	.12148	.31579	.14182
#1	4891.5	106020.	1586.6	1301.1
#2	4903.6	106200.	1579.5	1303.7

Service Request # K1102593_____
Calibration _____033011C_____
QC in calibration__033011C_____
QC Service Request K1102593_____
STARLIMS Batch # 240753_____

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control	X		
7. Spike and duplicate in control	X		
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control	X		
11. Interferences checked	X		
12. Se over MRL			X
13. CRA run	X		
14. ICSA and ICSAB in control	X		
15. Serial dilution run	X		
16. Post spike in control	X		
17. Was the run terminated? If so, why.		X	

Comments:

Primary Review by _____ Date 3/31/11
Secondary Review by JDB Date 3/31/11
R:\icp\misc\data review forms\PQ ExCell review form

Sample List

Num	Label	Type	Weight	Volume	Dilution	Rack	Row	Column	Height
1	Cal. Blk	Blank	0 kg	0 ml	1.00	0	1	1	145
2	Cal. Stn	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	145
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	145
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	145
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	LLICV	Unknown	0 kg	0 ml	1.00	0	1	4	145
8	ICSA	Unknown	0 kg	0 ml	1.00	0	1	5	145
9	ICSAB	Unknown	0 kg	0 ml	1.00	0	1	6	145
10	K1102578-MB	Unknown	0 kg	0 ml	1.00	2	1	1	145
11	LCSW	Unknown	0 kg	0 ml	1.00	2	1	2	145
12	K1102578-001	Unknown	0 kg	0 ml	1.00	2	1	3	145
13	K1102578-002	Unknown	0 kg	0 ml	1.00	2	1	4	145
14	K1102578-003	Unknown	0 kg	0 ml	1.00	2	1	5	145
15	K1102578-004	Unknown	0 kg	0 ml	1.00	2	1	6	145
16	K1102578-005	Unknown	0 kg	0 ml	1.00	2	1	7	145
17	K1102578-006	Unknown	0 kg	0 ml	1.00	2	1	8	145
18	K1102578-006D	Unknown	0 kg	0 ml	1.00	2	1	9	145
19	K1102578-006L 1/5	Unknown	0 kg	0 ml	1.00	2	1	10	145
20	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
21	CCB2	Unknown	0 kg	0 ml	1.00	0	1	1	145
22	K1102578-006A, +20 ppb	Unknown	0 kg	0 ml	1.00	2	1	11	145
23	K1102578-006S	Unknown	0 kg	0 ml	1.00	2	1	12	145
24	K1102578-007	Unknown	0 kg	0 ml	1.00	2	2	1	145
25	K1102593-001	Unknown	0 kg	0 ml	1.00	2	2	2	145
26	K1102593-002	Unknown	0 kg	0 ml	1.00	2	2	3	145
27	K1102593-002D	Unknown	0 kg	0 ml	1.00	2	2	4	145
28	K1102593-002S	Unknown	0 kg	0 ml	1.00	2	2	5	145
29	K1102520-MB	Unknown	0 kg	0 ml	1.00	2	2	6	145
30	LCSW	Unknown	0 kg	0 ml	1.00	2	2	7	145
31	K1102520-001	Unknown	0 kg	0 ml	1.00	2	2	8	145
32	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
33	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145
34	LLCCV	Unknown	0 kg	0 ml	1.00	0	1	4	145
35	K1102520-002	Unknown	0 kg	0 ml	1.00	2	2	9	145
36	K1102520-003	Unknown	0 kg	0 ml	1.00	2	2	10	145
37	K1102520-004	Unknown	0 kg	0 ml	1.00	2	2	11	145
38	K1102520-005	Unknown	0 kg	0 ml	1.00	2	2	12	145
39	K1102520-005D	Unknown	0 kg	0 ml	1.00	2	3	1	145
40	K1102520-005L 1/5	Unknown	0 kg	0 ml	1.00	2	3	2	145
41	K1102520-005A,+20ppb	Unknown	0 kg	0 ml	1.00	2	3	3	145
42	K1102520-005S	Unknown	0 kg	0 ml	1.00	2	3	4	145
43	K1102520-006	Unknown	0 kg	0 ml	1.00	2	3	5	145
44	K1102520-007	Unknown	0 kg	0 ml	1.00	2	3	6	145
45	CCV4	Unknown	0 kg	0 ml	1.00	0	1	2	145
46	CCB4	Unknown	0 kg	0 ml	1.00	0	1	1	145
47	K1102520-008	Unknown	0 kg	0 ml	1.00	2	3	7	145
48	K1102520-009	Unknown	0 kg	0 ml	1.00	2	3	8	145

49	K1102520-010	Unknown	0 kg	0 ml	1.00	2	3	9	145
50	K1102520-011	Unknown	0 kg	0 ml	1.00	2	3	10	145
51	K1102520-012	Unknown	0 kg	0 ml	1.00	2	3	11	145
52	K1102520-013	Unknown	0 kg	0 ml	1.00	2	3	12	145
53	K1102520-014	Unknown	0 kg	0 ml	1.00	2	4	1	145
54	K1102520-015	Unknown	0 kg	0 ml	1.00	2	4	2	145
55	K1102520-016	Unknown	0 kg	0 ml	1.00	2	4	3	145
56	K1102520-018	Unknown	0 kg	0 ml	1.00	2	4	4	145
57	CCV5	Unknown	0 kg	0 ml	1.00	0	1	2	145
58	CCB5	Unknown	0 kg	0 ml	1.00	0	1	1	145
59	LLCCV	Unknown	0 kg	0 ml	1.00	0	1	4	145

Instrument Setup - Sample Configuration

Sample	Configuration	Date
All Samples	acqmet11	7:49:38 3/30/11

Instrument Setup - Configurations

Configuration Name - acqmet11
Description - PQExcell CCT Sim Default
Date - 7:49:38 3/30/11
Maximum Uptake Time - 0
Maximum Washout Time - 0
S-Option Pump Running - No
Plasma Screen Forward - No
Makeup Gas On - No
Use CCT - No
Use Accessory Gas - No

Setting	Value
Extraction	-500.00
Lens1	5.00
Lens2	-60.00
Lens3	-200.00
Pole Bias	2.00
Sampling Depth	395.00
Horizontal	-60.00
Vertical	90.00
Cool	13.00
Auxiliary	0.90
Nebuliser	0.81
Forward power	1,380.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-36.00
Focus	20.00

ExCell Mass Calibration **Date: 3/30/2011**

Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Masses in Tune Solution
6.015	1301	0.715	-0.015	TRUE	
7.016	1554	0.766	-0.008	TRUE	Li-7
9.012	2055	0.715	0.019	TRUE	Be-9
23.985	5877	0.715	-0.026	TRUE	Mg-24
25.983	6377	0.766	0.008	TRUE	Co-59
26.982	6631	0.715	0.009	TRUE	In-115
44.956	11209	0.766	-0.001	TRUE	Ce-140
45.953	11463	0.817	-0.001	TRUE	Pb-208
50.944	12737	0.715	-0.014	TRUE	Bi-209
53.949	13497	0.766	0.006	TRUE	U-238
55.935	14004	0.766	0.001	TRUE	
56.935	14264	0.766	-0.02	TRUE	
57.934	14511	0.766	0.009	TRUE	
58.933	14758	0.766	0.038	TRUE	
61.928	15538	0.766	-0.03	TRUE	
62.93	15792	0.817	-0.026	TRUE	
63.929	16032	0.766	0.03	TRUE	
65.926	16546	0.715	0.009	TRUE	
69.925	17566	0.766	0.003	TRUE	
75.92	19087	0.766	0.026	TRUE	
114.904	29019	0.714	0.025	TRUE	
118.903	30072	0.714	-0.108	FALSE	
128.905	32600	0.663	-0.026	TRUE	
131.905	33354	0.663	0.016	TRUE	
139.905	35402	0.714	-0.018	TRUE	
141.908	35915	0.663	-0.027	TRUE	
155.923	39477	0.663	0.016	TRUE	
205.974	52250	0.612	-0.012	TRUE	
206.976	52503	0.662	-0.003	TRUE	
207.977	52757	0.612	0.003	TRUE	
208.98	53017	0.612	-0.013	TRUE	
238.051	60427	0.611	0.021	TRUE	

SHORT TERM STABILITY 03-30-11.vge

Excluded In Calib | Excluded In Results | Multi Element | Internal Standard | Standard Addition

Uncorrected ICPS Per Mass

S-Calibration Has Edited Standard E-Calibration Edited I-Invalid Calibration V-Valley Integration Failed
F-Interference Correction Failed T-Tripped P-Pulse Counting M-Result Over Max

Run	Label	TimeStamp	6Li	7Li	9Be	59Co	115In	208Pb
1	Stability 03-30-2011	3/30/2011 8:01:32 A	(P)0.000	(P)22498.210	(P)5007.044	(P)40387.685	(P)54669.245	(P)21171.516
2	Stability 03-30-2011	3/30/2011 8:02:47 A	(P)0.167	(P)22421.753	(P)4966.197	(P)40116.419	(P)54372.112	(P)21234.104
3	Stability 03-30-2011	3/30/2011 8:04:02 A	(P)0.167	(P)22434.773	(P)4920.014	(P)39819.427	(P)54012.084	(P)21455.436
4	Stability 03-30-2011	3/30/2011 8:05:18 A	(P)0.000	(P)22058.018	(P)4935.019	(P)39833.293	(P)54814.298	(P)21495.828
5	Stability 03-30-2011	3/30/2011 8:06:33 A	(P)0.167	(P)22100.087	(P)4930.184	(P)39607.008	(P)54206.487	(P)21669.924
	Mean of Stability 03-30	3/30/2011 8:01:32 A	(P)0.100	(P)22302.568	(P)4951.691	(P)39952.766	(P)54414.845	(P)21405.361
	SD of Stability 03-30-20		(P)0.091	(P)206.617	(P)35.420	(P)303.125	(P)328.534	(P)202.915
	%RSD of Stability 03		(P)91.287	(P)0.926	(P)0.715	(P)0.759	(P)0.604	(P)0.948

Run	Label	TimeStamp	209Bi	232Th	238U
1	Stability 03-30-2011	3/30/2011 8:01:32 A	(P)32992.223	(P)0.000	(P)35722.776
2	Stability 03-30-2011	3/30/2011 8:02:47 A	(P)32885.643	(P)0.167	(P)35589.445
3	Stability 03-30-2011	3/30/2011 8:04:02 A	(P)33167.460	(P)0.000	(P)35969.563
4	Stability 03-30-2011	3/30/2011 8:05:18 A	(P)33046.346	(P)0.000	(P)36152.189
5	Stability 03-30-2011	3/30/2011 8:06:33 A	(P)33522.286	(P)0.167	(P)36684.210
	Mean of Stability 03-30	3/30/2011 8:01:32 A	(P)33122.792	(P)0.067	(P)36023.637
	SD of Stability 03-30-20		(P)245.317	(P)0.091	(P)428.616
	%RSD of Stability 03		(P)0.741	(P)136.931	(P)1.190

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		Cal. Blk			Mean	SD	%RSD
TimeStamp		3/30/11 20:16					
Arsenic	75	0.0885	-0.0779	-0.0106	**0**	0.0837	0
Selenium	77	-0.0021	0.0259	-0.0239	**0**	0.025	0
Selenium	78	0.024	0.0291	-0.0531	**0**	0.046	0
Selenium	82	0.3195	-0.2576	-0.0619	**0**	0.2935	0

Internal Standard Factors:

Gallium	71	1.008	1.002	0.991	**1.008**	n/a	n/a
Rhodium	103	1.006	0.999	0.995	**1.006**	n/a	n/a
Indium	115	1.004	0.99	1.007	**1.004**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		Cal. Stn			Mean	SD	%RSD
TimeStamp		3/30/11 20:18					
Arsenic	75	25	25.23	24.77	**25**	0.2279	0.9117
Selenium	77	25.05	24.89	25.06	**25**	0.094	0.3758
Selenium	78	24.98	25.12	24.9	**25**	0.1084	0.4338
Selenium	82	25.2	25.32	24.49	**25**	0.448	1.792

Internal Standard Factors:

Gallium	71	0.974	0.969	0.972	**0.974**	n/a	n/a
Rhodium	103	0.977	0.984	0.98	**0.977**	n/a	n/a
Indium	115	0.966	0.975	0.974	**0.966**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		3/30/11 20:21					
Arsenic	75	24.75	24.85	24.48	**24.7**	0.1914	0.7751
Selenium	77	24.86	25.28	25.71	**25.28**	0.4289	1.696
Selenium	78	24.99	25.2	24.91	**25.03**	0.151	0.6032
Selenium	82	25.45	25.83	25.01	**25.43**	0.4108	1.615

Internal Standard Factors:

Gallium	71	0.956	0.962	0.977	**0.956**	n/a	n/a
Rhodium	103	0.975	0.99	0.974	**0.975**	n/a	n/a
Indium	115	0.971	0.972	0.969	**0.971**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		CCV1			Mean	SD	%RSD
TimeStamp		3/30/11 20:23					
Arsenic	75	24.98	25.26	25.71	**25.32**	0.3659	1.445
Selenium	77	24.93	24.92	23.96	**24.6**	0.5545	2.254
Selenium	78	25.28	25.02	25.08	**25.13**	0.1351	0.5376
Selenium	82	25.28	25.29	25.58	**25.38**	0.171	0.6738

Internal Standard Factors:

Gallium	71	0.957	0.971	0.981	**0.957**	n/a	n/a
Rhodium	103	0.969	0.977	0.981	**0.969**	n/a	n/a
Indium	115	0.96	0.978	0.963	**0.96**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		ICB1			Mean	SD	%RSD
TimeStamp		3/30/11 20:25					
Arsenic	75	0.0061	0.0592	-0.0366	**0.0096**	0.048	500.2
Selenium	77	-0.0554	0.0242	-0.0535	**-0.0282**	0.0454	161
Selenium	78	-0.1416	0.0117	0.0119	**-0.0394**	0.0885	225
Selenium	82	-0.0515	0.1909	-0.2351	**-0.0319**	0.2137	669.5

Internal Standard Factors:

Gallium	71	0.975	0.974	0.979	**0.975**	n/a	n/a
Rhodium	103	0.972	0.979	0.98	**0.972**	n/a	n/a
Indium	115	0.969	0.984	0.997	**0.969**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		CCB1			Mean	SD	%RSD
TimeStamp		3/30/11 20:28					
Arsenic	75	-0.0003	-0.0096	0.003	**-0.0023**	0.0065	284.3
Selenium	77	0.026	-0.021	-0.0441	**-0.0131**	0.0357	273.9
Selenium	78	-0.0783	0.2028	0.1239	**0.0828**	0.145	175.1
Selenium	82	0.0059	-0.0623	-0.0558	**-0.0374**	0.0376	100.7

Internal Standard Factors:

Gallium	71	0.968	0.976	0.979	**0.968**	n/a	n/a
Rhodium	103	0.967	0.962	0.974	**0.967**	n/a	n/a
Indium	115	0.975	0.983	0.961	**0.975**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		LLICV			Mean	SD	%RSD
TimeStamp		3/30/11 20:30					
Arsenic	75	0.4677	0.5605	0.5256	**0.5179**	0.0469	9.049
Selenium	77	0.8898	0.8654	0.9231	**0.8928**	0.029	3.248
Selenium	78	0.6233	0.8565	0.9458	**0.8086**	0.1665	20.59
Selenium	82	0.8129	1.126	1.009	**0.9826**	0.1583	16.11

Internal Standard Factors:

Gallium	71	0.972	0.963	0.971	**0.972**	n/a	n/a
Rhodium	103	0.983	0.967	0.982	**0.983**	n/a	n/a
Indium	115	0.983	0.989	0.976	**0.983**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		ICSA			Mean	SD	%RSD
TimeStamp		3/30/11 20:32					
Arsenic	75	0.0807	0.1332	0.0589	**0.0909**	0.0382	42.02
Selenium	77	3.501	3.276	3.458	**3.412**	0.1193	3.496
Selenium	78	0.2602	0.3115	0.4886	**0.3534**	0.1198	33.9
Selenium	82	-0.1277	-0.0088	-0.0356	**-0.0573**	0.0624	108.8

Internal Standard Factors:

Gallium	71	1.044	1.069	1.08	**1.044**	n/a	n/a
Rhodium	103	1.118	1.121	1.14	**1.118**	n/a	n/a
Indium	115	1.09	1.081	1.084	**1.09**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		ICSAB			Mean	SD	%RSD
TimeStamp		3/30/11 20:35					
Arsenic	75	24.79	25.18	25.13	**25.03**	0.2153	0.8601
Selenium	77	27.88	27.13	27.85	**27.62**	0.4267	1.545
Selenium	78	25.28	24.14	24.27	**24.56**	0.6222	2.533
Selenium	82	24.48	24.66	25.2	**24.78**	0.3761	1.518

Internal Standard Factors:

Gallium	71	1.041	1.042	1.069	**1.041**	n/a	n/a
Rhodium	103	1.11	1.103	1.116	**1.11**	n/a	n/a
Indium	115	1.073	1.077	1.071	**1.073**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-MB			Mean	SD	%RSD
TimeStamp		3/30/11 20:37					
Arsenic	75	0.0081	-0.0494	0.0045	**-0.0123**	0.0322	261.8
Selenium	77	0.0518	0.1308	0.0347	**0.0724**	0.0513	70.74
Selenium	78	-0.0394	0.2804	-0.0631	**0.0593**	0.1918	323.5
Selenium	82	-0.0381	-0.1218	-0.0041	**-0.0547**	0.0606	110.8

Internal Standard Factors:

Gallium	71	0.961	0.971	0.954	**0.961**	n/a	n/a
Rhodium	103	0.956	0.96	0.958	**0.956**	n/a	n/a
Indium	115	0.961	0.964	0.971	**0.961**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		LCSW			Mean	SD	%RSD
TimeStamp		3/30/11 20:39					
Arsenic	75	20.26	19.46	19.5	**19.74**	0.4515	2.287
Selenium	77	19.39	20.08	19.86	**19.78**	0.3544	1.792
Selenium	78	19.4	19.44	19.26	**19.37**	0.097	0.5009
Selenium	82	20.24	19.89	20.28	**20.14**	0.2133	1.059

Internal Standard Factors:

Gallium	71	0.945	0.952	0.958	**0.945**	n/a	n/a
Rhodium	103	0.948	0.949	0.956	**0.948**	n/a	n/a
Indium	115	0.964	0.961	0.962	**0.964**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-001			Mean	SD	%RSD
TimeStamp		3/30/11 20:42					
Arsenic	75	3.825	3.777	3.838	**3.813**	0.0322	0.8435
Selenium	77	0.1723	0.1026	0.1232	**0.1327**	0.0358	26.98
Selenium	78	0.2432	0.2404	0.1856	**0.2231**	0.0325	14.57
Selenium	82	-0.0671	0.0468	0.1959	**0.0586**	0.1319	225.2

Internal Standard Factors:

Gallium	71	0.968	0.967	0.978	**0.968**	n/a	n/a
Rhodium	103	0.993	0.996	1.003	**0.993**	n/a	n/a
Indium	115	0.96	0.991	0.994	**0.96**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-002			Mean	SD	%RSD
TimeStamp		3/30/11 20:44					
Arsenic	75	0.5931	0.5935	0.5044	**0.5636**	0.0513	9.106
Selenium	77	0.3996	0.3267	0.4344	**0.3869**	0.055	14.21
Selenium	78	0.669	0.4516	0.6707	**0.5971**	0.126	21.11
Selenium	82	0.4109	0.2153	-0.0267	**0.1999**	0.2192	109.7

Internal Standard Factors:

Gallium	71	1.004	1.006	1.017	**1.004**	n/a	n/a
Rhodium	103	1.027	1.047	1.029	**1.027**	n/a	n/a
Indium	115	1.005	1.002	1.018	**1.005**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-003			Mean	SD	%RSD
TimeStamp		3/30/11 20:46					
Arsenic	75	4.344	4.176	4.26	**4.26**	0.0841	1.973
Selenium	77	-0.0145	0.0462	0.0765	**0.0361**	0.0463	128.4
Selenium	78	0.0542	0.0103	-0.1867	**-0.0407**	0.1283	315.1
Selenium	82	0.0308	-0.1933	0.1156	**-0.0157**	0.1596	1020

Internal Standard Factors:

Gallium	71	0.986	0.985	0.968	**0.986**	n/a	n/a
Rhodium	103	1.007	1.01	1.029	**1.007**	n/a	n/a
Indium	115	0.992	1.005	1.007	**0.992**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-004			Mean	SD	%RSD
TimeStamp		3/30/11 20:49					
Arsenic	75	1.402	1.457	1.415	**1.425**	0.029	2.033
Selenium	77	0.0624	0.033	0.0861	**0.0605**	0.0266	43.98
Selenium	78	0.4176	0.0463	0.4238	**0.2959**	0.2161	73.05
Selenium	82	0.0808	0.1508	0.1468	**0.1261**	0.0393	31.19

Internal Standard Factors:

Gallium	71	0.985	0.985	0.998	**0.985**	n/a	n/a
Rhodium	103	1.024	1.035	1.002	**1.024**	n/a	n/a
Indium	115	1.008	1.012	1.013	**1.008**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-005			Mean	SD	%RSD
TimeStamp		3/30/11 20:51					
Arsenic	75	2.168	2.109	2.041	**2.106**	0.0639	3.032
Selenium	77	0.0914	0.0505	0.0997	**0.0805**	0.0263	32.7
Selenium	78	0.149	0.1831	0.1542	**0.1621**	0.0183	11.31
Selenium	82	0.1044	0.1704	-0.0334	**0.0805**	0.104	129.2

Internal Standard Factors:

Gallium	71	1.005	0.995	0.997	**1.005**	n/a	n/a
Rhodium	103	1.027	1.016	1.042	**1.027**	n/a	n/a
Indium	115	1.022	1.004	1.014	**1.022**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-006			Mean	SD	%RSD
TimeStamp		3/30/11 20:53					
Arsenic	75	2.441	2.551	2.476	**2.489**	0.0562	2.258
Selenium	77	0.1272	0.0488	0.1104	**0.0955**	0.0413	43.22
Selenium	78	0.029	-0.0322	0.0273	**0.008**	0.0349	435.1
Selenium	82	-0.0633	0.3063	0.0179	**0.087**	0.1943	223.4

Internal Standard Factors:

Gallium	71	0.996	0.989	1.001	**0.996**	n/a	n/a
Rhodium	103	1.014	1.022	1.027	**1.014**	n/a	n/a
Indium	115	1.003	1.008	1.021	**1.003**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-006D			Mean	SD	%RSD
TimeStamp		3/30/11 20:56					
Arsenic	75	2.53	2.58	2.512	**2.541**	0.035	1.379
Selenium	77	0.0769	0.0787	0.1251	**0.0935**	0.0274	29.23
Selenium	78	0.2382	0.3677	-0.0305	**0.1918**	0.2031	105.9
Selenium	82	-0.0485	0.1041	0.0219	**0.0258**	0.0764	295.9

Internal Standard Factors:

Gallium	71	0.992	0.989	0.999	**0.992**	n/a	n/a
Rhodium	103	1.039	1.015	1.03	**1.039**	n/a	n/a
Indium	115	1.005	1.01	1.02	**1.005**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-006L 1/5			Mean	SD	%RSD
TimeStamp		3/30/11 20:58					
Arsenic	75	0.5558	0.5582	0.5527	**0.5556**	0.0027	0.4891
Selenium	77	-0.0224	-0.0141	-0.002	**-0.0128**	0.0102	79.79
Selenium	78	-0.0415	0.1238	-0.0727	**0.0032**	0.1056	3277
Selenium	82	0.1414	0.1369	0.1072	**0.1285**	0.0186	14.46

Internal Standard Factors:

Gallium	71	0.97	0.951	0.959	**0.97**	n/a	n/a
Rhodium	103	0.971	0.968	0.963	**0.971**	n/a	n/a
Indium	115	0.978	0.974	0.975	**0.978**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		CCV2			Mean	SD	%RSD
TimeStamp		3/30/11 21:00					
Arsenic	75	26.33	25.18	25.59	**25.7**	0.5806	2.259
Selenium	77	25.59	24.89	25.61	**25.37**	0.4092	1.613
Selenium	78	26.53	24.89	25.47	**25.63**	0.8328	3.25
Selenium	82	26.57	25.79	25.81	**26.06**	0.4449	1.707

Internal Standard Factors:

Gallium	71	0.96	0.946	0.968	**0.96**	n/a	n/a
Rhodium	103	0.962	0.952	0.969	**0.962**	n/a	n/a
Indium	115	0.979	0.969	0.954	**0.979**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		CCB2			Mean	SD	%RSD
TimeStamp		3/30/11 21:03					
Arsenic	75	-0.0278	-0.0493	-0.0092	**-0.0288**	0.02	69.69
Selenium	77	0.0867	0.0431	-0.0223	**0.0359**	0.0549	153
Selenium	78	-0.0135	0.2315	0.1006	**0.1062**	0.1226	115.4
Selenium	82	-0.0728	-0.2071	-0.0738	**-0.1179**	0.0773	65.55

Internal Standard Factors:

Gallium	71	0.94	0.952	0.942	**0.94**	n/a	n/a
Rhodium	103	0.951	0.95	0.965	**0.951**	n/a	n/a
Indium	115	0.959	0.958	0.957	**0.959**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		**K1102578-006A, +20 ppb**			**Mean**	**SD**	**%RSD**
TimeStamp		**3/30/11 21:05**					
Arsenic	75	23.45	23.16	22.93	**23.18**	0.2641	1.139
Selenium	77	20.37	21.04	21.65	**21.02**	0.6401	3.045
Selenium	78	20.81	21.3	20.79	**20.97**	0.2899	1.382
Selenium	82	21.7	21.11	20.94	**21.25**	0.399	1.878

Internal Standard Factors:

Gallium	71	0.973	0.984	0.98	**0.973**	n/a	n/a
Rhodium	103	1.009	1.01	1.017	**1.009**	n/a	n/a
Indium	115	1.014	1.009	1	**1.014**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-006S			Mean	SD	%RSD
TimeStamp		3/30/11 21:07					
Arsenic	75	21.94	22.17	22.66	**22.26**	0.3687	1.657
Selenium	77	20.28	19.84	20.28	**20.13**	0.2546	1.265
Selenium	78	20.12	20.06	20.38	**20.19**	0.17	0.8421
Selenium	82	20.16	19.82	20.38	**20.12**	0.2789	1.386

Internal Standard Factors:

Gallium	71	0.961	0.979	0.997	**0.961**	n/a	n/a
Rhodium	103	1.024	1.018	1.024	**1.024**	n/a	n/a
Indium	115	0.99	1.012	1.017	**0.99**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102578-007			Mean	SD	%RSD
TimeStamp		3/30/11 21:10					
Arsenic	75	1.01	1.012	1.063	**1.028**	0.0301	2.928
Selenium	77	0.5	0.533	0.4051	**0.4794**	0.0664	13.86
Selenium	78	0.4578	0.1023	0.4381	**0.3327**	0.1998	60.05
Selenium	82	0.5179	0.3605	0.6358	**0.5047**	0.1381	27.36

Internal Standard Factors:

Gallium	71	0.994	0.993	1.003	**0.994**	n/a	n/a
Rhodium	103	1.026	1.014	1.033	**1.026**	n/a	n/a
Indium	115	1.013	1.021	1.02	**1.013**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102593-001			Mean	SD	%RSD
TimeStamp		3/30/11 21:12					
Arsenic	75	0.7754	0.7827	0.8215	**0.7932**	0.0248	3.124
Selenium	77	0.9307	0.6412	0.8373	**0.8031**	0.1478	18.4
Selenium	78	0.6919	0.8716	0.6804	**0.748**	0.1072	14.34
Selenium	82	0.4888	0.3248	0.4876	**0.4337**	0.0943	21.75

Internal Standard Factors:

Gallium	71	1.061	1.051	1.059	**1.061**	n/a	n/a
Rhodium	103	1.066	1.098	1.091	**1.066**	n/a	n/a
Indium	115	1.072	1.051	1.06	**1.072**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102593-002			Mean	SD	%RSD
TimeStamp		3/30/11 21:14					
Arsenic	75	0.5495	0.5908	0.6475	**0.5959**	0.0492	8.255
Selenium	77	5.324	5.294	5.325	**5.314**	0.0179	0.3363
Selenium	78	0.944	1.065	1.046	**1.018**	0.065	6.386
Selenium	82	0.9689	0.8558	0.9361	**0.9202**	0.0582	6.325

Internal Standard Factors:

Gallium	71	1.15	1.149	1.165	**1.15**	n/a	n/a
Rhodium	103	1.204	1.188	1.189	**1.204**	n/a	n/a
Indium	115	1.16	1.165	1.171	**1.16**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102593-002D			Mean	SD	%RSD
TimeStamp		3/30/11 21:17					
Arsenic	75	0.5017	0.5017	0.5681	**0.5238**	0.0383	7.32
Selenium	77	6.053	5.988	5.574	**5.872**	0.2598	4.425
Selenium	78	1.107	1.138	1.196	**1.147**	0.0453	3.944
Selenium	82	0.7825	0.9313	0.8713	**0.8617**	0.0749	8.688

Internal Standard Factors:

Gallium	71	1.162	1.149	1.151	**1.162**	n/a	n/a
Rhodium	103	1.202	1.219	1.212	**1.202**	n/a	n/a
Indium	115	1.174	1.147	1.155	**1.174**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102593-002S			Mean	SD	%RSD
TimeStamp		3/30/11 21:19					
Arsenic	75	21.47	21.48	21.58	**21.51**	0.063	0.293
Selenium	77	25.49	24.94	26.17	**25.54**	0.6196	2.426
Selenium	78	20.78	21.05	20.63	**20.82**	0.2098	1.008
Selenium	82	21.24	20.77	21.48	**21.16**	0.3636	1.718

Internal Standard Factors:

Gallium	71	1.151	1.157	1.165	**1.151**	n/a	n/a
Rhodium	103	1.192	1.216	1.222	**1.192**	n/a	n/a
Indium	115	1.138	1.164	1.188	**1.138**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102520-MB			Mean	SD	%RSD
TimeStamp		3/30/11 21:22					
Arsenic	75	0.0004	0.0081	-0.0137	**-0.0018**	0.0111	632.1
Selenium	77	0.211	0.0858	0.0802	**0.1256**	0.074	58.87
Selenium	78	0.4369	0.4217	0.304	**0.3875**	0.0728	18.77
Selenium	82	0.0218	-0.0185	-0.0661	**-0.021**	0.044	210

Internal Standard Factors:

Gallium	71	0.957	0.949	0.948	**0.957**	n/a	n/a
Rhodium	103	0.949	0.952	0.949	**0.949**	n/a	n/a
Indium	115	0.966	0.976	0.977	**0.966**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		LCSW			Mean	SD	%RSD
TimeStamp		3/30/11 21:24					
Arsenic	75	19.25	19.4	19.97	**19.54**	0.3835	1.963
Selenium	77	19.78	20.24	19.89	**19.97**	0.2399	1.201
Selenium	78	19.88	19.72	19.76	**19.79**	0.083	0.4193
Selenium	82	19.57	19.5	20.21	**19.76**	0.3904	1.976

Internal Standard Factors:

Gallium	71	0.941	0.958	0.964	**0.941**	n/a	n/a
Rhodium	103	0.958	0.973	0.978	**0.958**	n/a	n/a
Indium	115	0.96	0.966	0.981	**0.96**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		K1102520-001			Mean	SD	%RSD
TimeStamp		3/30/11 21:26					
Arsenic	75	0.3604	0.4375	0.4349	**0.4109**	0.0438	10.65
Selenium	77	0.5619	0.3834	0.4098	**0.4517**	0.0964	21.33
Selenium	78	0.4854	0.4305	0.2691	**0.395**	0.1125	28.47
Selenium	82	0.3448	0.388	0.3496	**0.3608**	0.0237	6.563

Internal Standard Factors:

Gallium	71	1.007	1.027	1.034	**1.007**	n/a	n/a
Rhodium	103	1.03	1.029	1.032	**1.03**	n/a	n/a
Indium	115	1.013	1.028	1.034	**1.013**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		CCV3			Mean	SD	%RSD
TimeStamp		3/30/11 21:29					
Arsenic	75	25.59	25.4	25.48	**25.49**	0.0962	0.3774
Selenium	77	25.52	26.35	25.84	**25.9**	0.4173	1.611
Selenium	78	25.79	25.93	25.34	**25.68**	0.3091	1.203
Selenium	82	25.58	25.49	25.66	**25.58**	0.0816	0.3191

Internal Standard Factors:

Gallium	71	0.956	0.977	0.978	**0.956**	n/a	n/a
Rhodium	103	0.965	0.965	0.982	**0.965**	n/a	n/a
Indium	115	0.96	0.999	1.002	**0.96**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		CCB3			Mean	SD	%RSD
TimeStamp		3/30/11 21:31					
Arsenic	75	0.0247	-0.0043	0.0335	**0.0179**	0.0198	110.3
Selenium	77	0.0256	0.0238	-0.0081	**0.0138**	0.019	137.6
Selenium	78	0.3292	0.1818	0.1582	**0.223**	0.0927	41.56
Selenium	82	-0.0093	-0.1349	-0.0018	**-0.0487**	0.0747	153.6

Internal Standard Factors:

Gallium	71	0.965	0.972	0.967	**0.965**	n/a	n/a
Rhodium	103	0.974	0.979	0.975	**0.974**	n/a	n/a
Indium	115	0.962	0.971	0.988	**0.962**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 03-30-11C
Units: µg/L (ppb)

Method: EPA 6020A
Analyst: Greg Jasper
STARLIMS #240753

Sample Name:		LLCCV			Mean	SD	%RSD
TimeStamp		3/30/11 21:33					
Arsenic	75	0.5622	0.5383	0.5709	**0.5571**	0.0169	3.033
Selenium	77	0.9407	1.133	0.9592	**1.011**	0.106	10.48
Selenium	78	1.151	0.8996	1.233	**1.095**	0.1739	15.89
Selenium	82	1.074	1.131	1.082	**1.095**	0.0307	2.802

Internal Standard Factors:

Gallium	71	0.961	0.958	0.969	**0.961**	n/a	n/a
Rhodium	103	0.981	0.978	0.979	**0.981**	n/a	n/a
Indium	115	0.984	0.983	0.979	**0.984**	n/a	n/a