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

January 5, 2011 Analytical Report for Service Request No: K0911038

Jennifer Parker
Windward Environmental, LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119

RE: Passaic RI/FS Sediment/09.58.02.41

Dear Jennifer:

Enclosed are the additional pages for the samples submitted to our laboratory on November 12, 2009. For your reference, these analyses have been assigned our service request number K0911038.

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 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lynda Huckestein
Client Services Manager

LH/lg

cc: Denise Shepperd, Trillium Inc., Wilmington, DE

ADDENDUM

616191

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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.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL or LOQ but greater than or equal to the MDL or LOD.
U	The compound 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 LOD has been adjusted for dilution.
i	The MRL/MDL or LOQ/LOD has been elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated concentration that is less than the MRL or LOQ but greater than or equal to the MDL or LOD.
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 compound 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 LOD has been adjusted for any dilution or
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 has been 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.
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 concentration that is less than the MRL but greater than or equal to the MDL.
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 compound 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 LOD has been adjusted for any dilution or
i	The MRL/MDL or LOQ/LOD has been 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

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
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 - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Windward Environmental, LLC	**Service Request No.:**	K0911038
Project:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Sample Matrix:	Sediment		

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 III 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

Nine sediment samples were received for analysis at Columbia Analytical Services on 11/12/2009. 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.

General Chemistry Parameters

Total Cyanide by Method 9012:
The matrix spike recovery of cyanide for sample LPRT01C was outside control criteria because of suspected matrix interference. A matrix spike duplicate was also analyzed, but produced similar results. The results of the original analysis were reported. No further corrective action was appropriate.

Total Phosphorus by EPA 365.3M;
The control criteria for matrix spike recovery of total phosphorus for sample LPRT01C were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Zinc for sample LPRT01C were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Organotin Compounds

Second Source Exceptions:
The analysis of Butyltins by Krone requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Tetra-n-butyltin in ICAL 9045. The ICV results were reported from the acceptable column. The data quality was not affected. No further corrective action was necessary.

Approved by _____ **Date** 12/21/09

Calibration Verification Exceptions:
The analysis of Butyltins by Krone requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Tetra-n-butyltin in CCV 1123F017 and 1124F038. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Sample Confirmation Notes:
The confirmation comparison criteria of 40% difference for Di-n-butyltin was exceeded in sample LPRT09H. The lower of the two values was reported when there was an apparent interference on the alternate column that produced the higher value.

Approved by_____ **Date** 12/21/09

Chain of Custody Documentation

CHAIN-OF-CUSTODY/TEST REQUEST FORM

K0911038

Project/Client Name:	Passaic RI/FS Sediment	Ship to:	Columbia Analytical		# LPR-CA111109-V1
Project Number:	09.58.02.41	Attn:	Lynda Huckestein	Shipping Date:	11.11.09
Contact Name:	Jennifer Parker	Shipper:	FedEx	Airbill Number:	8646 3004 8485
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	S.Replinger	Turnaround requested:	Standard

	Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Ammonia-N (350.1 Mod)	AVS/SEM (821R91100, 6010C/6020)	Sulfide (9030M)								Comments / Instructions [Jar tag number(s)]
1	11/09/09	1024	LPRT01C	2	Sed	x	x	x								Unhomogenized sediment
2	11/09/09	1024	LPRT09H	2	Sed	x	x	x								Unhomogenized sediment
3	11/09/09	1305	LPRT02C	2	Sed	x	x	x								Unhomogenized sediment
4	11/09/09	1151	LPRT01E	2	Sed	x	x	x								Unhomogenized sediment
5	11/09/09	1501	LPRT06C	2	Sed	x	x	x								Unhomogenized sediment
6	11/09/09	1501	LPRT06C-FD	2	Sed	x	x	x								Unhomogenized sediment
7	11/10/09	0952	LPRT02D	2	Sed	x	x	x								Unhomogenized sediment
8	11/10/09	1103	LPRT03C	2	Sed	x	x	x								Unhomogenized sediment
9	11/10/09	0929	LPRT09A	2	Sed	x	x	x								Unhomogenized sediment
			Total Number of Containers	18	Purchase Order / Statement of Work #											

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 11.11.09/0900	Date/Time:	Date/Time:	Date/Time:	Date/Time:
Rec'd by: John Jones	Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by:
Company: **CAS**	Company:	Company:	Company:	Company:
Date/Time: 11/12/09 0915	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:: 11/12/09	Laboratory W.O. #: K0911038
Condition upon receipt: GOOD	Time of receipt: 0915
Cooler temperature: -0.6/4.6 -0.1/3.7	Received by: John Jones

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

K0911038

Project/Client Name:	Passaic RI/FS Sediment	Ship to:	Columbia Analytical		# LPR-CA111109-2
Project Number:	09.58.02.41	Attn:	Lynda Huckestein	Shipping Date:	11.11.09
Contact Name:	Jennifer Parker	Shipper:	FedEx	Airbill Number:	8646 3004 8485
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	S Replinger	Turnaround requested:	Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Butyltins (Krone)	Cyanide (9012A)	TKN (ASTM D3590-89-02)	Phosphorus (365.3 Mod)	Metals (ICP,6010B)	Metals (ICP/MS, 6020)	Metals (Se, 7742)				Comments / Instructions [Jar tag number(s)]
11/05/09	1438	LPRT05C	1	sed					x	x	x				
11/05/09	1512	LPRT06D	1	sed					x	x	x				
11/06/09	1536	LPRT05B	1	sed					x	x	x				
11/06/09	1345	LPRT05D	1	sed					x	x	x				
11/06/09	1321	LPRT04D	1	sed					x	x	x				
11/06/09	0854	LPRT05F	1	sed					x	x	x				
11/06/09	0830	LPRT07B	1	sed					x	x	x				
11/06/09	1447	LPRT04E	1	sed					x	x	x				
11/09/09	1024	LPRT09H	2	sed	x	x	x	x	x	x	x				
11/09/09	1024	LPRT01C	2	sed	x	x	x	x	x	x	x				
Total Number of Containers			12	Purchase Order / Statement of Work #											

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 11.11.09/0900	Date/Time:	Date/Time:	Date/Time:	Date/Time:
Rec'd by: Tom Jones	Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by:
Company: **CAS**	Company:	Company:	Company:	Company:
Date/Time: 11/12/09 0915	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:: 11/12/09	Laboratory W.O. #: K0911038
Condition upon receipt: GOOD	Time of receipt: 0915
Cooler temperature: -0.6/4.6 -0.1/3.7	Received by: Tom Jones

CHAIN-OF-CUSTODY/TEST REQUEST FORM

K0911038

Project/Client Name:	Passaic RI/FS Sediment	Ship to:	Columbia Analytical # LPR-CA111109-3
Project Number:	09.58.02.41	Attn:	Lynda Huckestein — Shipping Date: 11.11.09
Contact Name:	Jennifer Parker	Shipper:	FedEx — Airbill Number: 8646 3004 8485
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	S.Replinger — Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Butyltins (Krone)	Cyanide (9012A)	TKN (ASTM D3590-89-02)	Phosphorus (365.3 Mod)	Metals (ICP,6010B)	Metals (ICP/MS, 6020)	Metals (Se, 7742)				Comments / Instructions [Jar tag number(s)]
11/09/09	1305	LPRT02C	1	sed	x	x	x	x							
11/09/09	1151	LPRT01E	1	sed	x	x	x	x							
11/09/09	1501	LPRT06C	1	sed	x	x	x	x							
11/09/09	1501	LPRT06C-FD	1	sed	x	x	x	x							
11/10/09	0952	LPRT02D	1	sed	x	x	x	x							
11/10/09	1103	LPRT03C	1	sed	x	x	x	x							
11/10/09	0929	LPRT09A	1	sed	x	x	x	x							
Total Number of Containers			7	Purchase Order / Statement of Work #											

3 4 5 6 7 8 9

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: Windward Environmental	Company:	Company:	Company:	Company:
Date/Time: 11.11.09/0900	Date/Time:	Date/Time:	Date/Time:	Date/Time:
Rec'd by: John Jones	Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by:
Company: CAS	Company:	Company:	Company:	Company:
Date/Time: 11/12/09 ~~0905~~ 0915 11/12/09 WT	Date/Time:	Date/Time:	Date/Time:	Date/Time:

To be completed by Laboratory upon sample receipt:

Date of receipt:: 11/12/09	Laboratory W.O. #: K0911038
Condition upon receipt: Good	Time of receipt: 0915
Cooler temperature: -0.6/4.6 -0.1/3.7	Received by: John Jones

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200 West Mercer Street
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Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC LA

Client / Project: Windward Environmental Service Request K09 11038

Received: 11/12/09 Opened: 11/12/09 By: 77

1. Samples were received via? *US Mail* *Fed Ex* *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? custody tape NA Y N If yes, how many and where? 1 front 1 left side
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: 8608 7497 4177 NA Y N
   8646 3004 8485
5. **Temperature of cooler(s) upon receipt (°C):** -0.6 -0.1
   Temperature Blank (°C): 4.6 3.7
   Thermometer ID: 259 236
6. If applicable, list Chain of Custody Numbers:
7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* NA Y N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA Y N
13. Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** NA Y N
16. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: _____

Total Solids

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sedime/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	11/09/2009	11/12/2009	11/13/2009	51.8	
LPRT09H	K0911038-002	11/09/2009	11/12/2009	11/13/2009	82.5	
LPRT02C	K0911038-003	11/09/2009	11/12/2009	11/13/2009	34.1	
LPRT01E	K0911038-004	11/09/2009	11/12/2009	11/13/2009	64.4	
LPRT06C	K0911038-005	11/09/2009	11/12/2009	11/13/2009	46.9	
LPRT06C-FD	K0911038-006	11/09/2009	11/12/2009	11/13/2009	45.9	
LPRT02D	K0911038-007	11/10/2009	11/12/2009	11/13/2009	31.9	
LPRT03C	K0911038-008	11/10/2009	11/12/2009	11/13/2009	35.9	
LPRT09A	K0911038-009	11/10/2009	11/12/2009	11/13/2009	67.5	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sedime/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Analyzed:	11/13/2009

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
LPRT09A	K0911038-009	67.5	67.8	67.7	<1	

Group ID:	KWG0910720				
Analyst:	TNguyen			**Reviewed By:**	BH
Date Acquired:	11/13/2009 09:45	**Oven TempStart:**	105 DEG C	**Date Reviewed:**	11/16/09
Date Completed:	11/16/2009 09:54	**Oven TempEnd:**	105 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
27	K0911037-012	LPRT06D	SEDIMENT	1.32g	12.78g	6.85g	48.3		
28	K0911037-013	LPRT05B	SEDIMENT	1.31g	12.51g	3.83g	22.5		
29	K0911037-014	LPRT05D	SEDIMENT	1.33g	11.39g	4.45g	31.0		
30	K0911037-015	LPRT04D	SEDIMENT	1.32g	10.99g	4.71g	35.1		
31	K0911037-016	LPRT05F	SEDIMENT	1.32g	12.35g	4.92g	32.6		
32	K0911037-017	LPRT07B	SEDIMENT	1.31g	12.23g	6.85g	50.7		
33	K0911037-018	LPRT04E	SEDIMENT	1.32g	9.39g	3.44g	26.3		
34	K0911037-019	LPRT09H	SEDIMENT	1.31g	11.72g	9.76g	81.2		
35	K0911037-020	LPRT01C	SEDIMENT	1.32g	10.42g	6.25g	54.2		
36	K0911038-001	LPRT01C	SEDIMENT	1.32g	10.36g	6.00g	51.8		
37	K0911038-002	LPRT09H	SEDIMENT	1.32g	9.64g	8.18g	82.5		
38	K0911038-003	LPRT02C	SEDIMENT	1.32g	10.24g	4.36g	34.1		
39	K0911038-004	LPRT01E	SEDIMENT	1.33g	12.68g	8.64g	64.4		
40	K0911038-005	LPRT06C	SEDIMENT	1.32g	12.64g	6.63g	46.9		
41	K0911038-006	LPRT06C-FD	SEDIMENT	1.32g	13.40g	6.87g	45.9		
42	K0911038-007	LPRT02D	SEDIMENT	1.31g	11.12g	4.44g	31.9		
43	K0911038-008	LPRT03C	SEDIMENT	1.32g	9.82g	4.37g	35.9		
44	K0911038-009	LPRT09A	SEDIMENT	1.32g	10.22g	7.33g	67.5		
45	K0911039-001	B12:SB-3:7.5:318	SOIL	1.30g	5.24g	4.16g	72.6		
46	K0911039-002	B12:SB-3:25:319	SOIL	1.32g	5.99g	5.55g	90.6		
47	K0911039-003	B12:SB-4:25:321	SOIL	1.32g	6.27g	5.70g	88.5		
48	K0911039-004	B12:SB-4:7.5:320	SOIL	1.32g	5.48g	4.26g	70.7		
49	K0911039-005	B12:SB-6:7.5:322	SOIL	1.32g	6.55g	5.05g	71.3		
50	K0911039-006	B12:SB-6:25:323	SOIL	1.32g	6.38g	5.73g	87.2		
51	K0911039-007	B12:SB-7:7.5:324	SOIL	1.31g	6.35g	4.91g	71.4		
52	K0911039-008	B12:SB-7:25:325	SOIL	1.32g	5.51g	5.16g	91.6		
53	K0911039-009	B12:SB-7:25:326	SOIL	1.32g	5.49g	5.19g	92.8		
54	K0911039-010	B12:SB-8:7.5:327	SOIL	1.32g	5.68g	4.49g	72.7		
55	K0911039-011	B12:SB-8:25:328	SOIL	1.32g	7.89g	7.28g	90.7		
56	K0911039-012	B19:SB-3:9.5:329	SOIL	1.31g	5.80g	4.53g	71.7		
57	K0911039-013	B19:SB-3:25:330	SOIL	1.31g	6.63g	5.91g	86.5		

Group ID:	KWG0910720				
Analyst:	TNguyen			**Reviewed By:**	
Date Acquired:	11/13/2009 09:45	**Oven TempStart:**	105 DEG C	**Date Reviewed:**	11/16/09
Date Completed:	11/16/2009 09:54	**Oven TempEnd:**	105 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
58	K0911039-014	B12:SB-2:7.5:331	SOIL	1.31g	6.33g	4.94g	72.3		
59	K0911039-015	B12:SB-2:25:332	SOIL	1.31g	5.75g	5.31g	90.1		
60	KWG0910720-1	Duplicate Client Sample	SOIL	1.31g	12.35g	10.59g	84.1	K0910914-001	
61	KWG0910720-10	Duplicate Client Sample	SEDIMENT	1.31g	8.88g	4.23g	38.6	K0911037-001	
62	KWG0910720-11	Duplicate Client Sample	SEDIMENT	1.33g	9.97g	6.05g	54.6	K0911037-020	
63	KWG0910720-2	Duplicate Client Sample	SOIL	1.32g	12.12g	8.49g	66.4	K0910843-001	
64	KWG0910720-3	Duplicate Client Sample	SOIL	1.31g	11.38g	6.79g	54.4	K0911024-001	
65	KWG0910720-4	Duplicate Client Sample	SOIL	1.32g	10.60g	8.50g	77.4	K0910956-001	
66	KWG0910720-5	Duplicate Client Sample	SOIL	1.31g	11.41g	10.46g	90.6	K0911025-005	
67	KWG0910720-6	Duplicate Client Sample	SOIL	1.32g	5.81g	5.37g	90.2	K0911039-015	
68	KWG0910720-7	Duplicate Client Sample	SOIL	1.32g	6.48g	5.00g	71.3	K0911039-005	
69	KWG0910720-8	Duplicate Client Sample	SEDIMENT	1.31g	13.4g	8.81g	62.0	K0910936-006	
70	KWG0910720-9	Duplicate Client Sample	SEDIMENT	1.31g	9.91g	7.14g	67.8	K0911038-009	

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

179526

Group ID:	KWG0910720				
Analyst:	TNguyen			**Reviewed By:**	
Date Acquired:	11/13/2009 09:45	**Oven TempStart:**	105 DEG C	**Date Reviewed:**	11/16/09
Date Completed:	11/16/2009 09:54	**Oven TempEnd:**	105 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0910843-001	WF-SD-C	SOIL	1.32g	11.90g	8.25g	65.5		
2	K0910914-001	IDW-339	SOIL	1.32g	10.51g	8.99g	83.5		
3	K0910936-001	BIs09-01	SEDIMENT	1.32g	9.36g	2.95g	20.3		
4	K0910936-002	BIs09-02	SEDIMENT	1.32g	12.0g	3.48g	20.2		
5	K0910936-003	BIs09-03	SEDIMENT	1.32g	12.8g	3.60g	19.9		
6	K0910936-004	BIs09-04	SEDIMENT	1.31g	13.2g	8.33g	59.0		
7	K0910936-005	BIs09-05	SEDIMENT	1.32g	15.7g	9.95g	60.0		
8	K0910936-006	BIs09-06	SEDIMENT	1.32g	14.5g	9.55g	62.4		
9	K0910956-001	WF-SD-C-2	SOIL	1.32g	10.38g	7.95g	73.2		
10	K0911024-001	WF-SD-C-S1	SOIL	1.32g	11.07g	6.67g	54.9		
11	K0911025-001	Du1-A	SOIL	1.32g	12.21g	10.49g	84.2		
12	K0911025-002	Du1-B	SOIL	1.31g	11.75g	10.10g	84.2		
13	K0911025-003	Du1-C	SOIL	1.32g	12.11g	10.12g	81.6		
14	K0911025-004	Du2	SOIL	1.31g	11.15g	9.53g	83.5		
15	K0911025-005	Du3	SOIL	1.32g	11.93g	10.92g	90.5		
16	K0911037-001	LPRT06F	SEDIMENT	1.33g	9.80g	4.54g	37.9		
17	K0911037-002	LPRT08B	SEDIMENT	1.32g	11.30g	4.28g	29.7		
18	K0911037-003	LPRT05E	SEDIMENT	1.32g	13.96g	6.77g	43.1		
19	K0911037-004	LPRT07A	SEDIMENT	1.32g	14.61g	10.01g	65.4		
20	K0911037-005	LPRT07C	SEDIMENT	1.31g	11.14g	5.18g	39.4		
21	K0911037-006	LPRT06E	SEDIMENT	1.31g	13.60g	7.31g	48.8		
22	K0911037-007	LPRT08D	SEDIMENT	1.32g	14.00g	9.92g	67.8		
23	K0911037-008	LPRT06A	SEDIMENT	1.32g	12.66g	4.71g	29.9		
24	K0911037-009	LPRT06B	SEDIMENT	1.32g	11.43g	4.37g	30.2		
25	K0911037-010	LPRT08E	SEDIMENT	1.32g	12.25g	9.81g	77.7		
26	K0911037-011	LPRT05C	SEDIMENT	1.32g	10.00g	5.03g	42.7		

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ice Request #: K0911038

Method: EPA METHOD 160.3 MODIFIED

ysis For: Total Solids

an ID	Lab Code	Wet Weight (g)	Tare (g)	Tare + Dry Wt.(g)	Dry Weight (g)	% Total Solids
	K1038 - 1	10.36	1.32	6.00		
	- 2	9.64	1.32	8.18		
	- 3	10.24	1.32	4.36		
	- 4	12.68	1.33	8.64		
	- 5	12.64	1.32	6.63		
	- 6	13.40	1.32	6.87		
	- 7	11.12	1.31	4.44		
	- 8	9.82	1.32	4.37		
	- 9	10.22	1.32	7.33		
	-9d	9.91	1.31	7.14		

Temp : Time In : Time Out :

ments:

$\bar{x}$ RPD =

$\bar{x}$ RPD =

$\bar{x}$ RPD =

vst: TN Date: 11/13/09

cwed By: Date: 11/16/09

TSGEN.BCH

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/09,10/09
Date Received : 11/12/09

Ammonia as Nitrogen

Prep Method : Method
Analysis Method 350.1M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	0.97	0.08	1	11/17/2009	11/18/09	14.1	
LPRT09H	K0911038-002	0.61	0.05	1	11/17/2009	11/18/09	0.39	J
LPRT02C	K0911038-003	1.5	0.12	1	11/17/2009	11/18/09	31.6	
LPRT01E	K0911038-004	0.78	0.07	1	11/17/2009	11/18/09	8.51	
LPRT06C	K0911038-005	1.1	0.09	1	11/17/2009	11/18/09	25.3	
LPRT06C-FD	K0911038-006	1.1	0.09	1	11/17/2009	11/18/09	30.3	
LPRT02D	K0911038-007	1.6	0.13	1	11/17/2009	11/18/09	41.3	
LPRT03C	K0911038-008	1.4	0.12	1	11/17/2009	11/18/09	53.3	
LPRT09A	K0911038-009	0.75	0.06	1	11/17/2009	11/18/09	10.8	
Method Blank	K0911038-MB	0.61	0.05	1	11/17/2009	11/18/09	0.05	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/17/09
		Date Analyzed :	11/18/09

Duplicate Summary
Inorganic Parameters

Sample Name :	LPRT01C	Units :	mg/Kg
Lab Code :	K0911038-001DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	Method	350.1M	0.97	14.1	13.6	13.9	4	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/17/09
		Date Analyzed :	11/18/09

Matrix Spike Summary
Inorganic Parameters

Sample Name :	LPRT01C	Units :	mg/Kg
Lab Code :	K0911038-001MS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	Method	350.1M	49	962	14.1	959	98	42-143	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/9/2009
Date Received : 11/12/2009
Date Prepared : 11/17/09
Date Analyzed : 11/18/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : LPRT01C
Lab Code : K0911038-001MS K0911038-001DMS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	Method	350.1M	49	962	954	14.1	959	918	98	95	42-143	3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	WATER	**Date Prepared :**	NA
		Date Analyzed :	11/18/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/L
Lab Code :	K0911038-LCS	Basis :	NA
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	NONE	350.1M	15.2	16.0	105	86-115	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	11/18/2009	2.00	1.91	96
CCV2 Result	11/18/2009	2.00	1.89	95
CCV3 Result	11/18/2009	2.00	1.89	95
CCV4 Result	11/18/2009	2.00	1.92	96
CCV5 Result	11/18/2009	2.00	1.91	96

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	11/18/2009	0.050	0.011 J
CCB2 Result	11/18/2009	0.050	0.009 U
CCB3 Result	11/18/2009	0.050	0.012 J
CCB4 Result	11/18/2009	0.050	0.021 J
CCB5 Result	11/18/2009	0.050	0.020 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/09,10/09
Date Received : 11/12/09

Phosphorus, Total

Prep Method : Method
Analysis Method 365.3M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	20	7.7	100	11/20/2009	11/21/09	603	
LPRT09H	K0911038-002	13	4.9	100	11/20/2009	11/21/09	520	
LPRT02C	K0911038-003	29	12	100	11/20/2009	11/21/09	1370	
LPRT01E	K0911038-004	16	6.2	100	11/20/2009	11/21/09	385	
LPRT06C	K0911038-005	22	8.5	100	11/20/2009	11/21/09	879	
LPRT06C-FD	K0911038-006	22	8.6	100	11/20/2009	11/21/09	901	
LPRT02D	K0911038-007	31	13	100	11/20/2009	11/21/09	2090	
LPRT03C	K0911038-008	69	28	250	11/20/2009	11/21/09	1990	
LPRT09A	K0911038-009	15	5.9	100	11/20/2009	11/21/09	740	
Method Blank	K0911038-MB	0.13	0.05	1	11/20/2009	11/21/09	0.05	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/20/09
		Date Analyzed :	11/21/09

Duplicate Summary
Inorganic Parameters

Sample Name :	LPRT01C	Units :	mg/Kg
Lab Code :	K0911038-001DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Phosphorus, Total	Method	365.3M	20	603	590	597	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/20/09
		Date Analyzed :	11/21/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name :	LPRT01C		Units :	mg/Kg
Lab Code :	K0911038-001MS	K0911038-001DMS	Basis :	Dry
Test Notes :				

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Phosphorus, Total	Method	365.3M	19	38.4	75.8	603	637	676	89	96	75-125	8	*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/20/09
		Date Analyzed :	11/21/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K0911038-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Phosphorus, Total	Method	365.3M	1110	1240	112	91-114	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Phosphorus, Total
365.3M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	11/21/2009	0.500	0.498	100
CCV2 Result	11/21/2009	0.500	0.496	99
CCV3 Result	11/21/2009	0.500	0.496	99
CCV4 Result	11/21/2009	0.500	0.495	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Phosphorus, Total
365.3M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	11/21/2009	0.010	0.004 U
CCB2 Result	11/21/2009	0.010	0.004 U
CCB3 Result	11/21/2009	0.010	0.004 U
CCB4 Result	11/21/2009	0.010	0.004 U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/09,10/09
Date Received : 11/12/09

Sulfide, Acid-Volatile

Prep Method : EPA 821/R-91-100
Analysis Method 821/R-91-100
Test Notes :

Units : uMole/g
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	0.030	1	11/23/2009	11/25/09	0.265	
LPRT09H	K0911038-002	0.019	1	11/23/2009	11/25/09	0.185	
LPRT02C	K0911038-003	0.915	1	11/23/2009	11/25/09	7.58	
LPRT01E	K0911038-004	0.024	1	11/23/2009	11/25/09	0.162	
LPRT06C	K0911038-005	0.166	1	11/23/2009	11/25/09	0.682	
LPRT06C-FD	K0911038-006	0.034	1	11/23/2009	11/25/09	0.177	
LPRT02D	K0911038-007	0.049	1	11/23/2009	11/25/09	0.156	
LPRT03C	K0911038-008	0.043	1	11/23/2009	11/25/09	0.168	
LPRT09A	K0911038-009	0.023	1	11/23/2009	11/25/09	0.137	
Method Blank	K0911038-MB	0.023	1	11/23/2009	11/25/09	0.005	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/23/09
		Date Analyzed :	11/25/09

Duplicate Summary
Inorganic Parameters

Sample Name :	LPRT01C	Units :	uMole/g
Lab Code :	K0911038-001DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfide, Acid-Volatile	EPA 821/R-91-100	821/R-91-100	0.030	0.265	0.232	0.249	13	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/23/09
		Date Analyzed :	11/25/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : LPRT01C

Lab Code : K0911038-001MS K0911038-001DMS

Test Notes :

Units : uMole/g

Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Sulfide, Acid-Volatile	EPA 821/R-91-100	821/R-91-100	3.1	24.4	25.4	0.27	21.9	22.5	89	88	53-143	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/23/09
		Date Analyzed :	11/25/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K0911038-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide, Acid-Volatile	EPA 821/R-91-100	821/R-91-100	8.34	7.00	84	71-112	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Sulfide, Acid-Volatile
821/R-91-100
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	11/25/2009	1.91	1.92	101
CCV2 Result	11/25/2009	1.91	1.90	99
CCV3 Result	11/25/2009	1.91	1.91	100
CCV4 Result	11/25/2009	1.91	1.91	100
CCV5 Result	11/25/2009	1.91	1.90	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Sulfide, Acid-Volatile
821/R-91-100
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	11/25/2009	0.050	0.020 U
CCB2 Result	11/25/2009	0.050	0.020 U
CCB3 Result	11/25/2009	0.050	0.020 U
CCB4 Result	11/25/2009	0.050	0.020 U
CCB5 Result	11/25/2009	0.050	0.020 U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/09,10/09
Date Received : 11/12/09

Cyanide, Total

Prep Method : Method
Analysis Method 9012A M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	0.35	0.07	1	11/18/2009	11/20/09	0.07	U
LPRT09H	K0911038-002	0.23	0.05	1	11/18/2009	11/20/09	0.09	J
LPRT02C	K0911038-003	0.48	0.10	1	11/18/2009	11/20/09	0.18	J
LPRT01E	K0911038-004	0.28	0.06	1	11/18/2009	11/20/09	0.06	U
LPRT06C	K0911038-005	0.25	0.05	1	11/18/2009	11/20/09	0.26	
LPRT06C-FD	K0911038-006	0.26	0.05	1	11/18/2009	11/20/09	0.31	
LPRT02D	K0911038-007	0.42	0.09	1	11/18/2009	11/20/09	0.14	J
LPRT03C	K0911038-008	0.40	0.08	1	11/18/2009	11/20/09	0.17	J
LPRT09A	K0911038-009	0.26	0.06	1	11/18/2009	11/20/09	0.06	U
Method Blank	K0911038-MB	0.23	0.05	1	11/18/2009	11/20/09	0.05	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/18/09
		Date Analyzed :	11/20/09

Duplicate Summary
Inorganic Parameters

Sample Name :	LPRT01C	Units :	mg/Kg
Lab Code :	K0911038-001DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Cyanide, Total	Method	9012A M	0.35	0.07	0.07	0.07	<1	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/18/09
		Date Analyzed :	11/20/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : LPRT01C
Lab Code : K0911038-001MS K0911038-001DMS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Cyanide, Total	Method	9012A M	0.23	2.67	2.83	0.07 U	0.27	0.17	7	4	10-167	55	*J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/18/09
		Date Analyzed :	11/20/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K0911038-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Cyanide, Total	Method	9012A	26.6	25.1	94	80-109	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Cyanide, Total
9012A
Units: ug/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	11/20/2009	100	95	95
CCV2 Result	11/20/2009	100	96	96
CCV3 Result	11/20/2009	100	96	96
CCV4 Result	11/20/2009	100	96	96
CCV5 Result	11/20/2009	100	96	96
CCV6 Result	11/20/2009	100	96	96
CCV7 Result	11/20/2009	100	96	96
CCV8 Result	11/20/2009	100	96	96
CCV9 Result	11/20/2009	100	96	96
CCV10 Result	11/20/2009	100	96	96
CCV11 Result	11/20/2009	100	95	95
CCV12 Result	11/20/2009	100	96	96
CCV13 Result	11/20/2009	100	96	96
CCV14 Result	11/20/2009	100	96	96
CCV15 Result	11/20/2009	100	96	96
CCV16 Result	11/20/2009	100	96	96
CCV17 Result	11/20/2009	100	95	95
CCV18 Result	11/20/2009	100	95	95
CCV19 Result	11/20/2009	100	96	96
CCV20 Result	11/20/2009	100	96	96
CCV21 Result	11/20/2009	100	95	95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Cyanide, Total
9012A
Units: ug/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	11/20/2009	10	3 U
CCB2 Result	11/20/2009	10	3 U
CCB3 Result	11/20/2009	10	3 U
CCB4 Result	11/20/2009	10	3 U
CCB5 Result	11/20/2009	10	3 U
CCB6 Result	11/20/2009	10	3 U
CCB7 Result	11/20/2009	10	3 U
CCB8 Result	11/20/2009	10	3 U
CCB9 Result	11/20/2009	10	3 U
CCB10 Result	11/20/2009	10	3 U
CCB11 Result	11/20/2009	10	3 U
CCB12 Result	11/20/2009	10	3 U
CCB13 Result	11/20/2009	10	3 U
CCB14 Result	11/20/2009	10	3 U
CCB15 Result	11/20/2009	10	3 U
CCB16 Result	11/20/2009	10	3 U
CCB17 Result	11/20/2009	10	3 U
CCB18 Result	11/20/2009	10	3 U
CCB19 Result	11/20/2009	10	3 U
CCB20 Result	11/20/2009	10	3 U
CCB21 Result	11/20/2009	10	3 U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/09,10/09
Date Received : 11/12/09

Sulfide, Total

Prep Method : EPA 9030B Modified
Analysis Method 9030M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	4.9	2.0	5	11/16/2009	11/17/09	24.3	
LPRT09H	K0911038-002	3.1	1.3	5	11/16/2009	11/17/09	19.3	
LPRT02C	K0911038-003	59	24	40	11/16/2009	11/17/09	611	
LPRT01E	K0911038-004	3.9	1.6	5	11/16/2009	11/17/09	20.6	
LPRT06C	K0911038-005	11	4.3	10	11/16/2009	11/17/09	77	
LPRT06C-FD	K0911038-006	5.5	2.2	5	11/16/2009	11/17/09	21.1	
LPRT02D	K0911038-007	3.2	1.3	2	11/16/2009	11/17/09	23.6	
LPRT03C	K0911038-008	2.8	1.2	2	11/16/2009	11/17/09	20.5	
LPRT09A	K0911038-009	3.8	1.5	5	11/16/2009	11/17/09	18.0	
Method Blank	K0911038-MB	1.4	0.6	1	11/16/2009	11/17/09	0.6	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/9/2009
Date Received : 11/12/2009
Date Prepared : 11/16/09
Date Analyzed : 11/17/09

Duplicate Summary
Inorganic Parameters

Sample Name : LPRT01C
Lab Code : K0911038-001DUP
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfide, Total	EPA 9030B Modified	9030M	2.5	24.3	21.1	22.7	14	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/16/09
		Date Analyzed :	11/17/09

Matrix Spike Summary
Inorganic Parameters

Sample Name :	LPRT01C	Units :	mg/Kg
Lab Code :	K0911038-001MS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide, Total	EPA 9030B Modified	9030M	50	929	24.3	1000	105	34-166	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	11/9/2009
Project Number :	09.58.02.41	**Date Received :**	11/12/2009
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/16/09
		Date Analyzed :	11/17/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name :	LPRT01C		Units :	mg/Kg
Lab Code :	K0911038-001MS	K0911038-001DMS	Basis :	Dry
Test Notes :				

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Sulfide, Total	EPA 9030B Modified	9030M	50	929	884	24.3	1000	787	105	86	34-166	20	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/16/09
		Date Analyzed :	11/17/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K0911038-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide, Total	EPA 9030B Modified	9030M	7.84	5.50	70	55-130	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Sulfide, Total
9030M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	11/17/2009	1.96	1.97	101
CCV2 Result	11/17/2009	1.96	1.97	101
CCV3 Result	11/17/2009	1.96	1.97	101
CCV4 Result	11/17/2009	1.96	1.96	100
CCV5 Result	11/17/2009	1.96	1.96	100

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Sulfide, Total
9030M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	11/17/2009	0.050	0.020 U
CCB2 Result	11/17/2009	0.050	0.020 U
CCB3 Result	11/17/2009	0.050	0.020 U
CCB4 Result	11/17/2009	0.050	0.020 U
CCB5 Result	11/17/2009	0.050	0.020 U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : 11/09,10/09
Date Received : 11/12/09

Nitrogen, Total Kjeldahl (TKN)

Prep Method : ASTM D 3590-89B-21.1 Mod
Analysis Method ASTM D1426-93B Modified
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	78	9.7	1	11/18/2009	11/19/09	2260	
LPRT09H	K0911038-002	49	6.1	1	11/18/2009	11/19/09	543	
LPRT02C	K0911038-003	120	15	1	11/18/2009	11/19/09	5010	
LPRT01E	K0911038-004	63	7.8	1	11/18/2009	11/19/09	1190	
LPRT06C	K0911038-005	86	11	1	11/18/2009	11/19/09	2480	
LPRT06C-FD	K0911038-006	88	11	1	11/18/2009	11/19/09	2750	
LPRT02D	K0911038-007	130	16	1	11/18/2009	11/19/09	4780	
LPRT03C	K0911038-008	120	14	1	11/18/2009	11/19/09	3940	
LPRT09A	K0911038-009	60	7.5	1	11/18/2009	11/19/09	946	
Method Blank	K0911038-MB	49	6.1	1	11/18/2009	11/19/09	6.1	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/18/09
		Date Analyzed :	11/19/09

Duplicate Summary
Inorganic Parameters

Sample Name :	Batch QC	Units :	mg/Kg
Lab Code :	K0911121-010DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrogen, Total Kjeldahl (TKN)	ASTM D 3590-89B-21.1 Mod	ASTM D1426-93B Modified	1100	6720	7190	6960	7	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project Name : Passaic RI/FS Sediment
Project Number : 09.58.02.41
Sample Matrix : SEDIMENT

Service Request : K0911038
Date Collected : NA
Date Received : NA
Date Prepared : 11/18/09
Date Analyzed : 11/19/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K0911121-010MS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Nitrogen, Total Kjeldahl (TKN)	ASTM D 3590-89B-21.1 Mod	ASTM D1426-93B Modified	1100	18200	6720	28400	119	23-174	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/18/09
		Date Analyzed :	11/19/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name :	Batch QC		Units :	mg/Kg
Lab Code :	K0911121-010MS	K0911121-010DMS	Basis :	Dry
Test Notes :				

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Nitrogen, Total Kjeldahl (TKN)	ASTM D 3590-89B-2 1.1 Mod	ASTM D1426-93B Modified	1100	18200	35600	6720	28400	48100	119	116	23-174	3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Windward Environmental, LLC	**Service Request :**	K0911038
Project Name :	Passaic RI/FS Sediment	**Date Collected :**	NA
Project Number :	09.58.02.41	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	11/18/09
		Date Analyzed :	11/19/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Laboratory Control Sample	Units :	mg/Kg
Lab Code :	K0911038-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Nitrogen, Total Kjeldahl (TKN)	ASTM D 3590-89B-21. 1 Mod	ASTM D1426-93B Modified	1220	1470	120	77-123	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Nitrogen, Total Kjeldahl (TKN)
ASTM D1426-93B Modified
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	11/19/2009	10.0	10.4	104
CCV2 Result	11/19/2009	10.0	10.0	100
CCV3 Result	11/19/2009	10.0	10.1	101
CCV4 Result	11/19/2009	10.0	10.0	100
CCV5 Result	11/19/2009	10.0	9.94	99
CCV6 Result	11/19/2009	10.0	9.94	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Windward Environmental, LLC
Project : Passaic RI/FS Sediment

Service Request : K0911038
Date Collected : NA
Date Received : NA

Nitrogen, Total Kjeldahl (TKN)
ASTM D1426-93B Modified
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	11/19/2009	0.050	0.025 J
CCB2 Result	11/19/2009	0.050	0.041 J
CCB3 Result	11/19/2009	0.050	0.025 J
CCB4 Result	11/19/2009	0.050	0.038 J
CCB5 Result	11/19/2009	0.050	0.029 J
CCB6 Result	11/19/2009	0.050	0.009 U

Work Request # Original (K10313) K10845 K11038

Tier: I III III

Date Analyzed: 11/18/09

Analyst: [signature]

Analysis: NH_3 - 350.1 M

180019

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
   a. Is the calibration curve correlation coefficient ≥ 0.995? yes/no/NA
   b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
   c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
   d. Are results for methods blanks all ND? yes/no/NA
   e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
   f. Are all exceptions explained? ~~yes/no/NA~~ ①
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: [signature] Date: 11/19/09 DQREPORT

① TH 11/18/09

COLUMBIA ANALYTICAL SERVICES, INC.

Run# 180019

I II III

Work Order #.: K10313 K10845 K11038 EPA 350.1 M / SM 4500-NH3 G Mod

Analysis: NH_3

Date Prepared	Sample Name Lab Code	Dil.	Initial Weight g	Final Vol ml	mg/L (in solution)	mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	MRL	MDL
11/12/2009	MB1	1	50	50	-0.0011	<0.009				
11/13/2009	MB2	1	50	50	-0.0042	<0.009			#DIV/0!	#DIV/0!
11/12/2009	LCS	10	10	10	1.6039	16.0			#DIV/0!	#DIV/0!
11/12/2009	k0910313-005	200	10.12	50	1.7775	1760			#DIV/0!	#DIV/0!
11/12/2009	k0910845-014	1	10.08	50	2.7215	13.500	20.2	66.8	2.475247525	0.1980198
11/12/2009	k0910845-014d	1	10.03	50	2.4440	12.183	20.2	60.3	2.475247525	0.1980198
11/12/2009	k0910845-014ms	50	10.07	50	1.8987	471.3754	20.2	2330	123.7623762	9.9009901
11/12/2009	k0910845-014msd	50	10.10	50	1.8173	449.8267	20.2	2230	123.7623762	9.9009901
11/12/2009	k0910845-015	5	10.11	50	1.4848	36.7161	45.9	80.0	5.446623094	0.43572985
11/12/2009	k0910845-016	1	10.04	50	3.5589	17.7236	38.4	46.2	1.302083333	0.10416667
11/12/2009	k0910845-017	5	10.02	50	1.1496	28.6826	24.6	117	10.16260163	0.81300813
11/12/2009	k0910845-018	1	10.05	50	3.9258	19.5313	40.8	47.9	1.225490196	0.09803922
11/12/2009	k0910845-019	5	10.16	50	1.3757	33.8509	30.8	110	8.116883117	0.64935065
11/13/2009	k0911038-001	1	10.23	50	1.4909	7.2869	51.8	14.1	0.965250965	0.07722008
11/13/2009	k0911038-001d	1	10.28	50	1.4527	7.0657	51.8	13.6	0.965250965	0.07722008
11/13/2009	k0911038-001ms	50	10.03	50	1.9940	497.0090	51.8	959	48.26254826	3.86100386
11/13/2009	k0911038-001msd	50	10.12	50	1.9254	475.6423	51.8	918	48.26254826	3.86100386
11/13/2009	k0911038-002	1	10.22	50	0.0656	0.3209	82.5	0.39	0.606060606	0.04848485
11/13/2009	k0911038-003	1	10.04	50	2.1658	10.7859	34.1	31.6	1.46627566	0.11730205
11/13/2009	k0911038-004	1	10.12	50	1.1089	5.4788	64.4	8.51	0.776397516	0.0621118
11/13/2009	k0911038-005	1	10.13	50	2.4007	11.8495	46.9	25.3	1.066098081	0.08528785
11/13/2009	k0911038-006	1	10.07	50	2.7997	13.9012	45.9	30.3	1.089324619	0.08714597
11/13/2009	k0911038-007	1	10.11	50	2.6655	13.1825	31.9	41.3	1.567398119	0.12539185
11/13/2009	k0911038-008	1	10.09	50	3.8579	19.1174	35.9	53.3	1.39275766	0.11142061
11/13/2009	k0911038-009	1	10.02	50	1.4662	7.3164	67.5	10.8	0.740740741	0.05925926

Spike =	0.5	ml X 10000mg/L /	10.07	g/	20.2	% =	2460	(2458.041236 mg/Kg)	k10845
x = 63.4		RPD= 10%		SPK % REC =88% 92%					
Spike =	0.5	ml X 10000mg/L /	10.10	g/	20.2	% =	2450	(2450.740124 mg/Kg)	
				SPK % REC =88%					
Spike =	0.5	ml X 10000mg/L /	10.03	g/	51.8	% =	962	(962.3638736 mg/Kg)	k11038
x = 13.9		RPD =4%		SPK % REC= 98%					
Spike =	0.5	ml X 10000mg/L /	10.12	g/	51.8	% =	954	(953.8053016 mg/Kg)	
				SPK % REC =95%					

Prepared By:	[illegible]	Date:	11/12/0915:30 11/13/098:10
Analyzed By:	[illegible]	Date:	11/18/09 9:34
Reviewed By:	[illegible]	Date:	11/19/09

11-18-09

T K10313 , m. K10845 , m: K11038

BRAN+LUEBBE

Post-run report

Name of Run	: 091118B	Name of Analysis	:Ammonia.ANL
Date of Report	: 11/18/2009	System No.	:1
Date of Run	: 11/18/2009	Type of System	:AA3
Operator	:	Start/Stop time	:09:34 - 10:45
Comment	:		

Channel	:	2
Method	:	Method 2
Unit	:	mg/L
Calibr. Fit	:	Linear
Corr. Coeff.	:	0.9998
Base	:	-18972
Gain	:	21
Sensitivity	:	0.3795
Sample Limit 1	:	
Sample Limit 2	:	

LCS ID#: PO3/2-26-0 T.V.=15.2
Spike ID#: B+LNH3/1-71-U
Curve, CCV ID#: B+LNH3/1-54-G T.V.=2.00
MB MS = 2.00

Pk	Cup		Sample Id	Value		
0	0	B	Baseline	0.0122		
1	1	P	Primer	5.0286		
2	1	D	Drift	5.0316		
3	1	C	5.00	5.0273		
4	2	C	2.00	1.9276		
5	3	C	0.50	0.5009		
6	4	C	0.05	0.0722		
7	5	C	0	0.0221		
8	0	B	Baseline	0.0122		
9	1	H1	High	5.0221		
10	0	L1	Low	0.0072		
11	0	L1	Low	0.0072		
12	5	QC2	CCB1	0.0112	0.0117	
13	2	QC1	CCV1	1.9125	1.91	96%
14	10	QC3	LCS1 1/10	1.6039	16.0	105%
15	11	S	MB MS	2.1208	2.12	106%
16	0	N	Null	-0.0079N		
17	5	QC2	MB1	0.0008	<0.009	
18	12	S	MB11/12/09	-0.0011	<0.009	
19	13	S	MB211/13/09	-0.0042	<0.009	
20	14	S	k0910313-005.05/10	1.7775		
21	15	S	k0910845-014	2.7215		
22	16	S	k0910845-014d	2.4440		
23	0	B	baseline	0.0122		
24	5	QC2	CCB2	0.0039	<0.009	
25	2	QC1	CCV2	1.8870	1.89	95%
26	17	S	k0910845-014ms.1/5	1.8987		

11/19/09

11/18/09

27	18	S	k0910845-014msd.1/5	1.8173	
28	19	S	k0910845-015 1/5	1.4848	
29	20	S	k0910845-016	3.5589	
30	21	S	k0910845-017 1/5	1.1496	
31	22	S	k0910845-018	3.9258	
32	23	S	k0910845-019 1/5	1.3757	
33	24	S	k0911038-001	1.4909	
34	25	S	k0911038-001d	1.4527	
35	0	B	BASELINE	0.0122	
36	5	QC2	CCB-3	0.0123	0.0127
37	2	QC1	CCV-3	1.8885	1.89 95%
38	26	S	k0911038-001ms.1/5	1.9940	
39	27	S	k0911038-001msd.1/5	1.9254	
40	28	S	k0911038-002	0.0656	
41	29	S	k0911038-003	2.1658	
42	30	S	k0911038-004	1.1089	
43	31	S	k0911038-005	2.4007	
44	32	S	k0911038-006	2.7997	
45	33	S	k0911038-007	2.6655	
46	34	S	k0911038-008	3.8579	
47	0	B	Baseline	0.0122	
48	5	QC2	CCB4	0.0214	0.0217
49	2	QC1	CCV4	1.9158	1.92 96%
50	35	S	k0911038-009	1.4662	
51	0	B	Baseline	0.0122	
52	5	QC2	CCB5	0.0202	0.0207
53	2	QC1	CCV5	1.9079	1.91 96%
54	1	D	Drift	5.0316	
55	0	B	Baseline	0.0122	
56	0	B	FinalBase	0.0122	

QC Limits

Channel :	2
QC 1	Unused
QC 2	Unused
QC 3	Unused
QC 4	Unused
QC 5	Unused
QC 6	Unused
QC 7	Unused
QC 8	Unused
QC 9	Unused
QC10	Unused

11/18/08

CORRECTIONS

Channel :	2
Baseline :	Yes
Drift :	Yes
Carry over :	Yes
%:	0.2

11/18/08

```
* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **
```

11/18/09

11/18/09

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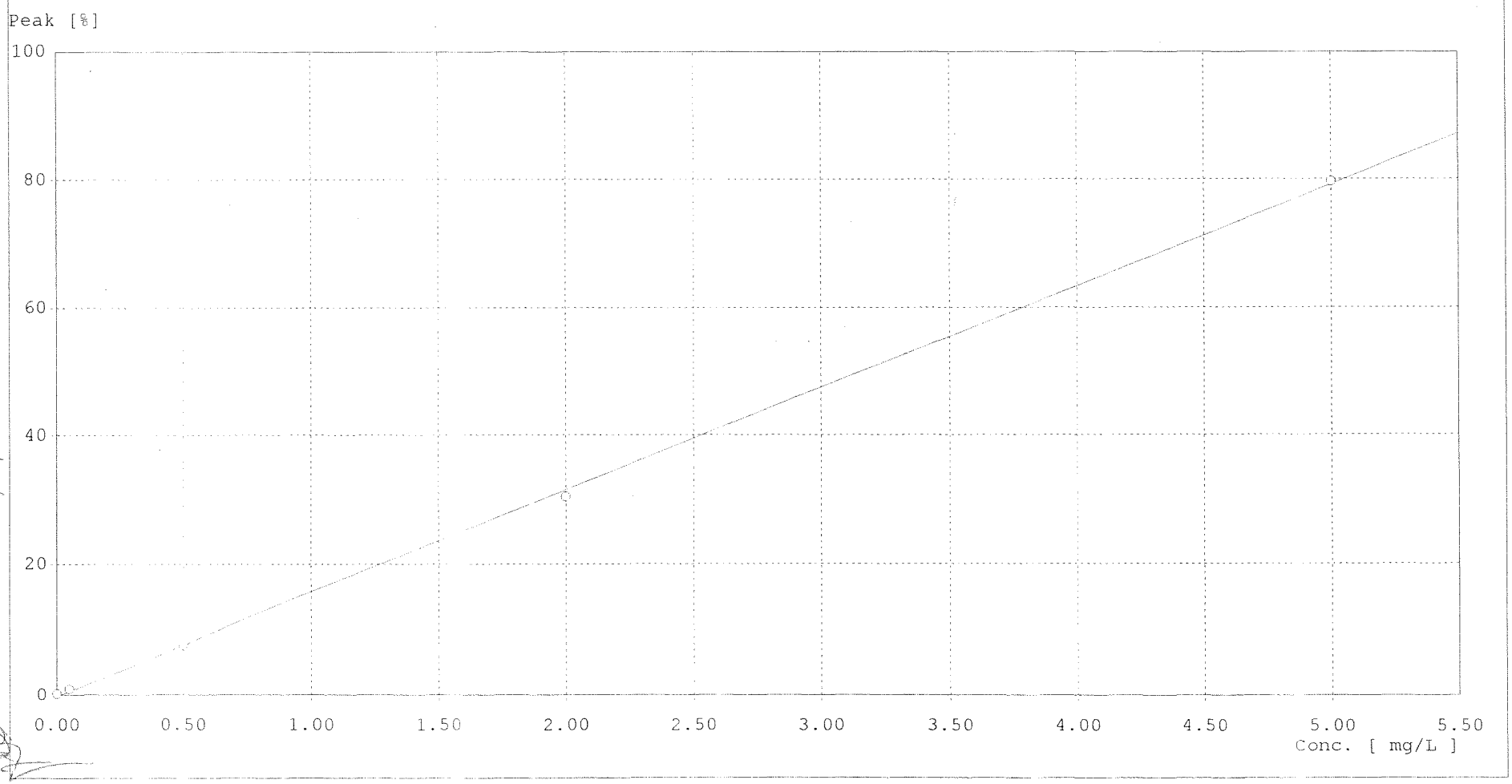
Calibration Curve

Name of run :091118B.run
Comment :

Name of analysis :Ammonia.ANL

Channel :2
Method :Method 2
Curve fit :linear a=-2.2179E-001 b=9.6075E-005
Corr. coeff. :0.9998



11/18/09

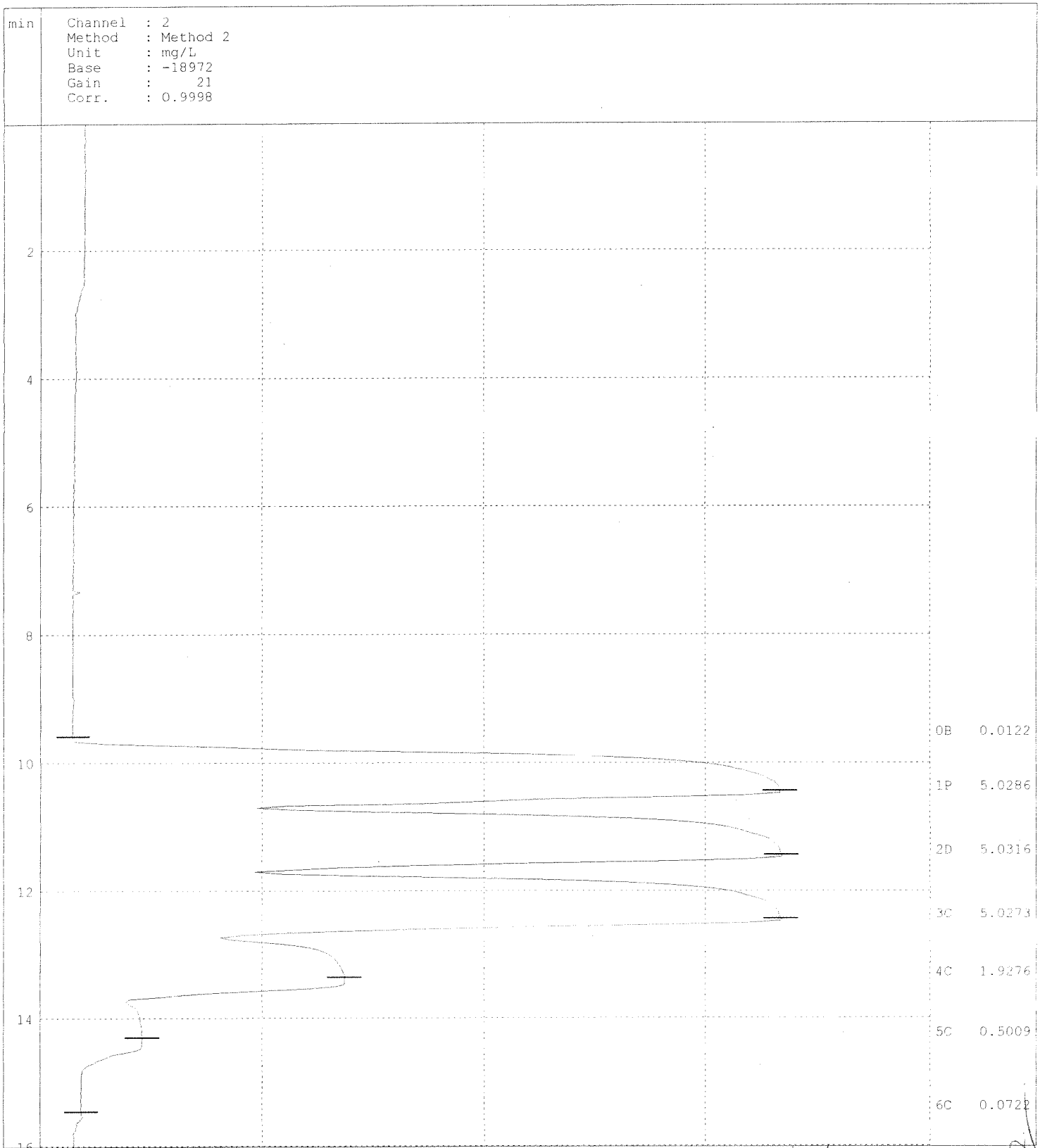
11/18/09

BRAN+LUEBBE

Post-run chart

Name of run :091118B.RUN
Comment :

Name of analysis :Ammonia.ANL

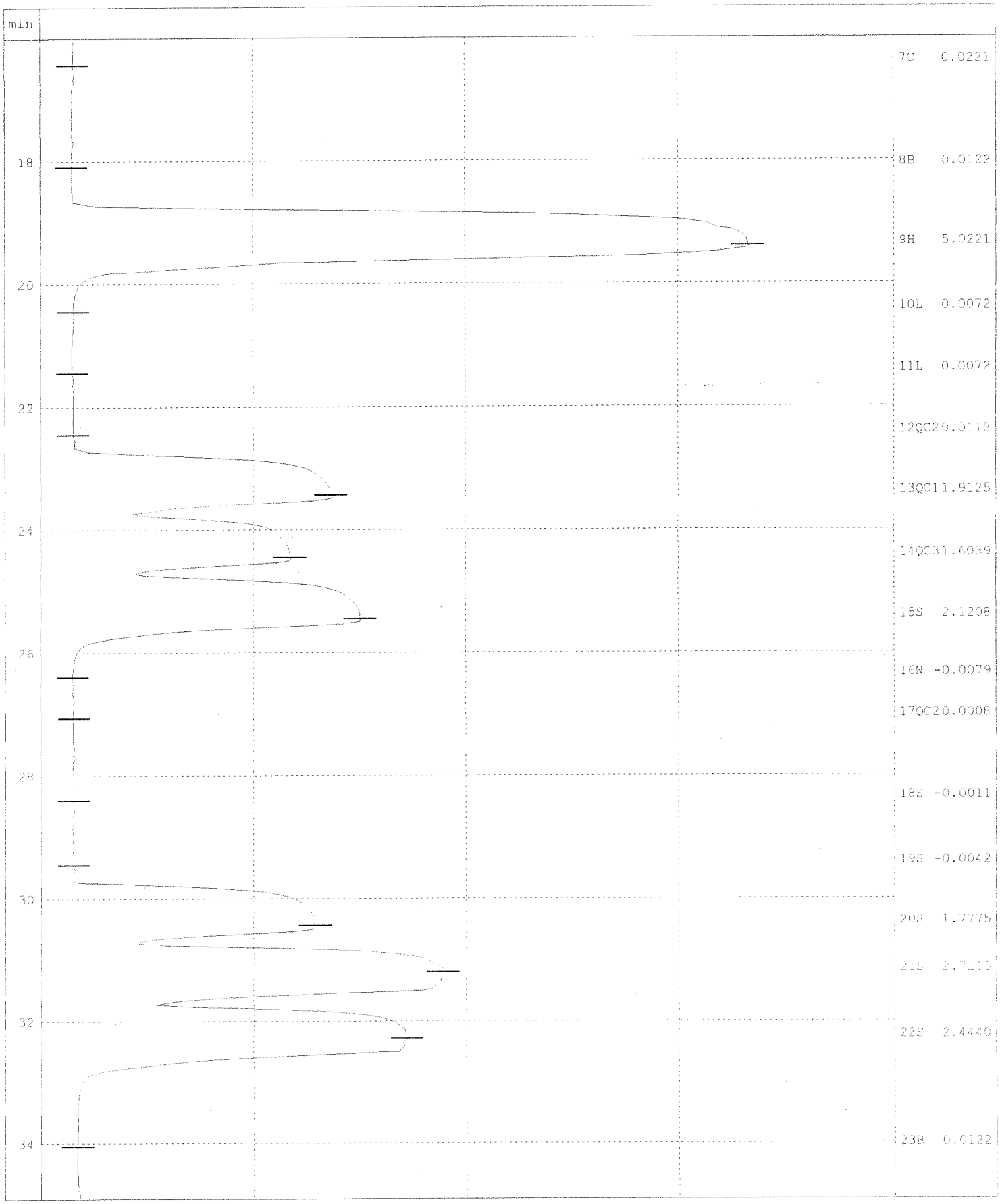


11/18/09

11/19/09

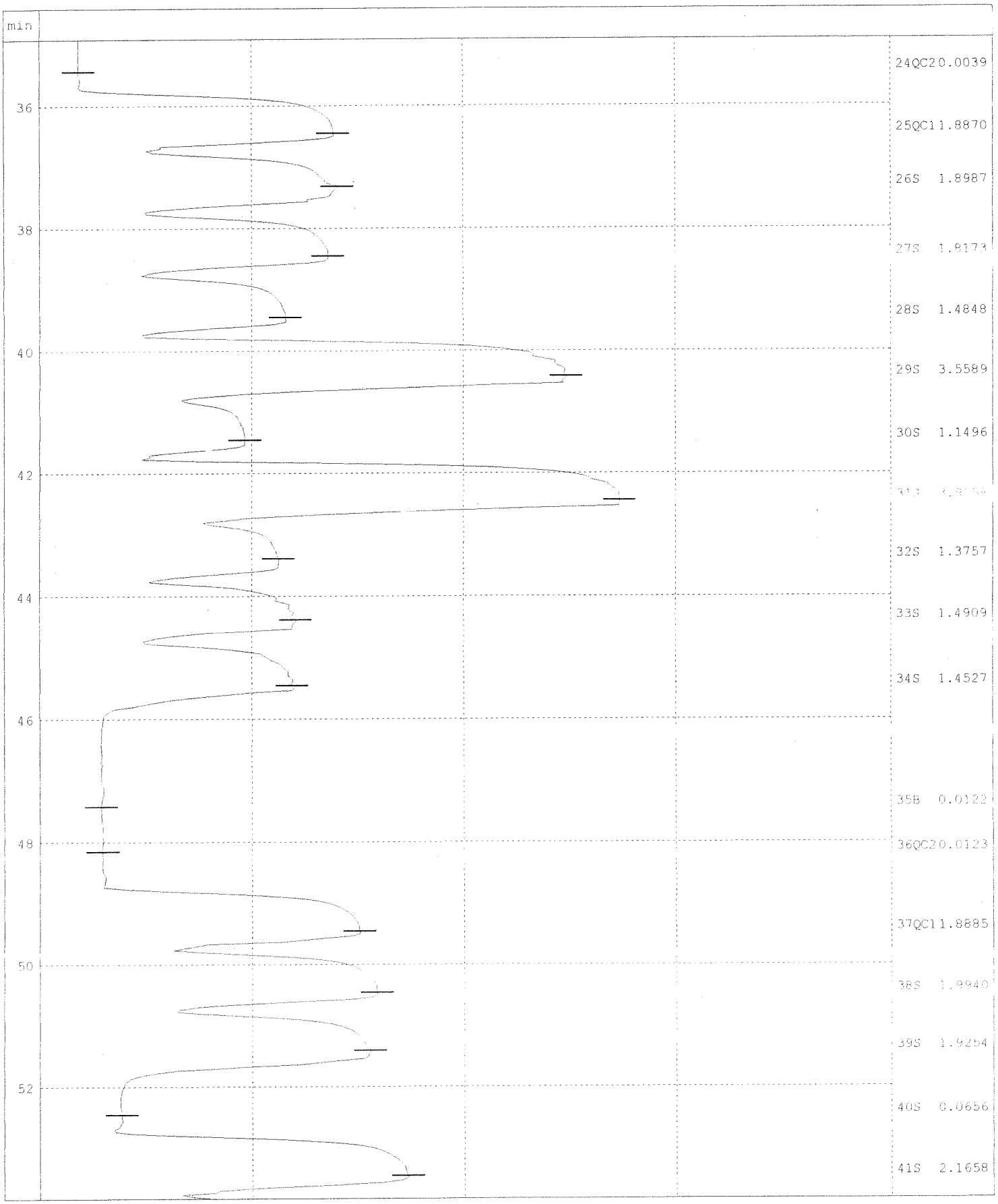
Name of run :091118B.RUN
Comment :

Name of analysis :Ammonia.ANL



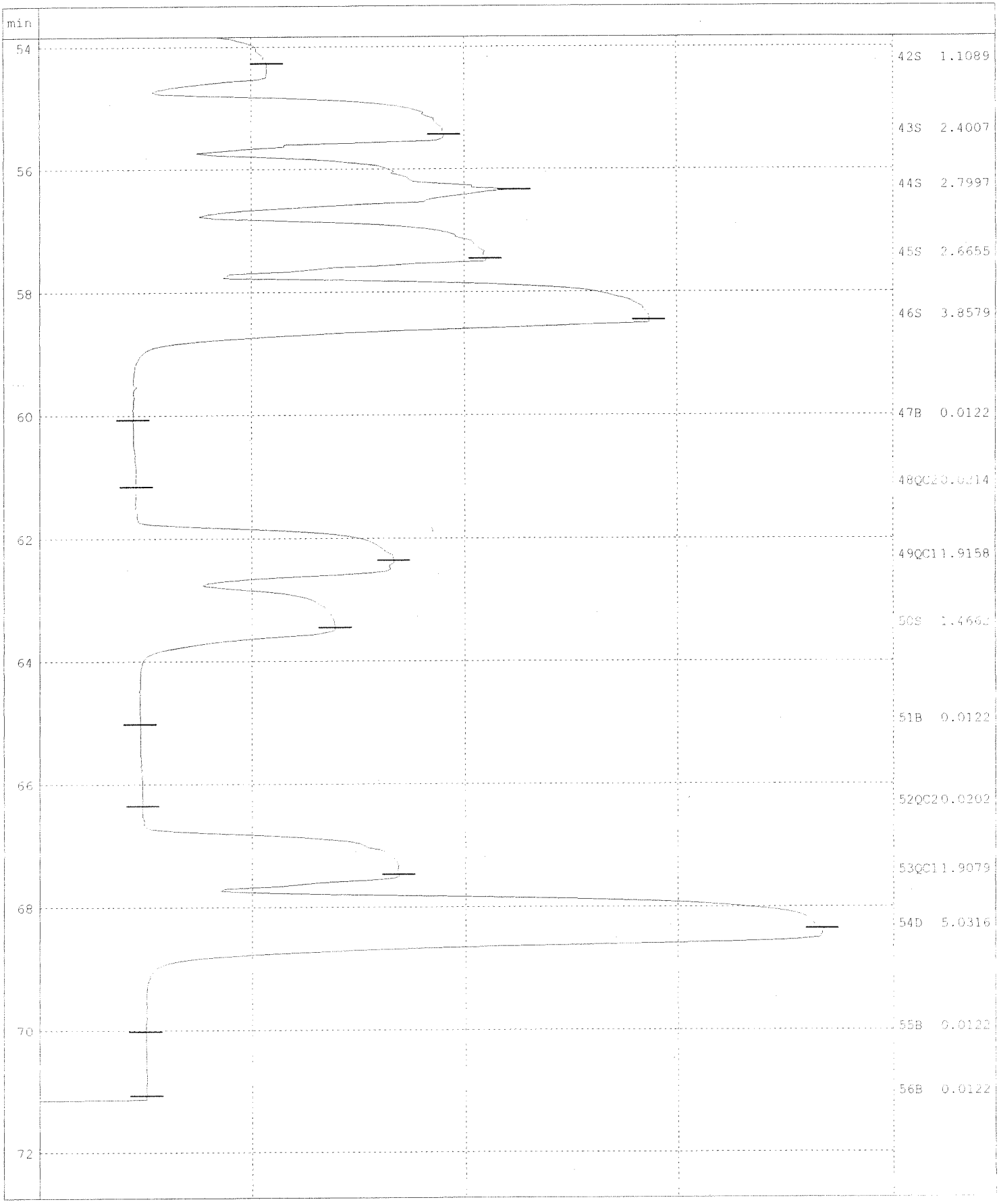
Name of run :091118B.RUN
Comment :

Name of analysis :Ammonia.ANL



Name of run :091118B.RUN
Comment :

Name of analysis :Ammonia.ANL



III P COLUMBIA ANALYTICAL SERVICES, INC. Prep run#: 100924

Work Order #.: K10845, K10313 Method: 350.1M

Analysis: NH3

Date Prepared	Sample Name / Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
11/12/09	MB	50	50				
	K10313-5	10.12					
	K10845-14	10.08					
	-14d	10.03					
	-14ms	10.07					
	-14msd	10.10					
	-15	10.11					
	-16	10.04					
	-17	10.02					
	-18	10.05					
	-19	10.16					

Spike = 0.5 mL x 10000 ppm (B+LNH3/1-1-0)

MS=

MSD=

X=

RPD=

STD ID # =

Comments:

Prepared By:		Date Prepared: 11/12/09	TIME: 15:30
Analyzed By:		Date Analyzed: 11/18/09	
Reviewed By:		Date Reviewed: 11/19/09	

V. (III)

COLUMBIA ANALYTICAL SERVICES, INC.

Prep run #: 100925

Work Order #.: K11038

Method: 350.M

Analysis: NH_3

Date Prepared	Sample Name / Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
11/13/09	MB	50	50	—			
	K11038-1	10.23					
	-1d	10.28					
	-1ms	10.03					
	-1msd	10.12					
	-2	10.22					
	-3	10.04					
	-4	10.12					
	-5	10.13					
	-6	10.07					
	-7	10.11					
	-8	10.09					
	-9	10.02					

Spike = 0.5 ml x 10 000 ppm (B + LNH_3 1, -1-0)

MS=

MSD=

X=

RPD=

STD ID # =

Comments:

Prepared By: [signature] / TM	Date Prepared: 11/13/09 TIME: 8:10
Analyzed By: [signature]	Date Analyzed: 11/18/09
Reviewed By: [signature]	Date Reviewed: 11/19/09

Work Request # Original K11058, K11121, K10313, K11262

Tier: V V I I

Date Analyzed: 11/21/09

Analyst: SS / Tm

Analysis: Tphos (soil)

180506

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no/NA
a.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
b.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
c.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
d.	Are results for methods blanks all ND?	yes/no/NA
e.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
f.	Are all exceptions explained?	yes/no/NA
6.	Are all service requests that apply attached?	yes/no/NA
7.	Are all samples labelled correctly?	yes/no/NA
8.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)	yes/no/NA
9.	Are detection limits and units reported correctly?	yes/no/NA
10.	Are proper Analysis/Extraction stickers included on report?	yes/no/NA
11.	Is the unused space on the benchsheet crossed out?	yes/no/NA
12.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

1) K10313. due date 11/24/09

2. K11262 - 1MS/1MSD % Rec = NA

spike level < sample conc^n.

Final Approved by: GH Date: 11/23/09

DQREPORT

Work Order: K11038,K11121,K10313.K11262 Method: EPA 365.3

Analysis: Total Phosphorus as P

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L	0.000	0.010	0.050	0.100	0.200	0.500	0.700				(R) =	1.0000
Absorbance	0.000	0.019	0.098	0.196	0.400	1.015	1.407				Slope =	2.0192
											Y Int. =	-0.0021

Sample #	Sample #	Dil. Factor	Absorb. @ 650 nm	Conc. from Curve (mg/L)	background mg/L (solution)	Actual Conc. In solution (mg/L)	Initial Weight g	Final Vol. (ml)	mg/kg as rec'd	% Solid	mg/Kg Dry wt	mg/Kg Dry wt reported	MRL	MDL
11/20/2009	ICB	1	0.000	0.0011		0.00	100	100	~~-0.0004~~					
11/20/2009	ICV	1	0.840	0.4171		0.42	100	100	0.417					
11/20/2009	CCB-1	1	-0.001	0.0006		0.00	50	50	<0.004					
11/20/2009	CCV-1	1	1.004	0.4983		0.50	50	50	0.498					
11/20/2009	MB	1	-0.003	-0.0004		0.00	10.0256	100	<0.004					
11/20/2009	LCS	25	0.511	0.2541		0.25	0.5111	100	1240					
11/20/2009	K0911038-001	100	0.633	0.3145		0.31	10.0671	100	312.451	51.80	603.2	603	19.176346	7.6705384
11/20/2009	K0911038-1D	100	0.619	0.3076		0.31	10.0647	100	305.637	51.80	590.0	590	19.180919	7.6723675
11/20/2009	K0911038-1MS	100	0.667	0.3314		0.33	10.0483	100	329.793	51.80	636.7	637	19.212224	7.6848897
11/20/2009	K0911038-1MSD	100	0.718	0.3566		0.36	10.1822	100	350.262	51.80	676.2	676	18.959576	7.5838303
11/20/2009	K0911038-002	100	0.866	0.4299		0.43	10.0143	100	429.326	82.50	520.4	520	12.103904	4.8415614
11/20/2009	K0911038-003	100	0.959	0.4760		0.48	10.178	100	467.673	34.10	1371.5	~~1371~~	28.812648	11.525059
11/20/2009	K0911038-004	100	0.502	0.2497		0.25	10.0602	100	248.177	64.40	385.4	385	15.435031	6.1740126
11/20/2009	K0911038-005	100	0.839	0.4166		0.42	10.11	100	412.036	46.90	878.5	879	21.089972	8.4359888
11/20/2009	CCB-2	1	0.001	0.0016		0.00	50	50	<0.004					
11/20/2009	CCV-2	1	0.999	0.4958		0.50	50	50	0.496					
11/20/2009	K0911038-006	100	0.845	0.4195		0.42	10.1454	100	413.527	45.90	900.9	901	21.474257	8.5897027
11/20/2009	K0911038-007	100	1.372	0.6805		0.68	10.1868	100	668.053	31.90	2094.2	2090	30.77312	12.309248
11/20/2009	K0911038-008	250	0.585	0.2908		0.29	10.1578	100	715.648	35.90	1993.4	1990	68.556068	27.422427
11/20/2009	K0911038-009	100	1.016	0.5042		0.50	10.1002	100	499.224	67.50	739.6	740	14.667843	5.8671372
11/20/2009	K0911121-001	100	1.221	0.6058		0.61	10.1697	100	595.643	37.40	1592.6	1590	26.291796	10.516718
11/20/2009	K0911121-002	100	0.691	0.3433		0.34	10.1765	100	337.318	34.80	969.3	969	28.237245	11.294898
11/20/2009	K0911121-004	100	1.015	0.5037		0.50	10.1332	100	497.109	32.80	1515.6	1520	30.087045	12.034818
11/20/2009	K0911121-005	250	0.810	0.4022		0.40	10.0704	100	998.486	44.00	2269.3	2270	56.420978	22.568391
11/20/2009	K0911121-006	250	0.779	0.3869		0.39	10.0604	100	961.327	29.00	3314.9	3320	85.689333	34.275733

T.V = 1110 Lot#: %Rec = 112% ID#PO3/2-26-k

CCV = (0.5 mL x 100 ppm P) / 100 mL = 0.50 mg/L %Rec = 100%,99% ID#:PO3/3-22-S

ICV=0.40ml x 100ppm/100ml=0.40ppm %Rec=104% ID#:PO3/3-42-GG

CURVE-PO3/3-2-S

k11038-1/1D X= 597 RPD=2%

K11038-1MS/1MSD % REC =89%,96%

			date	Time:
Distilled by:	TM/SS	Date Distilled:	11/20/2009	13:15
Analyzed By:	SS	Date Analyzed:	11/21/2009	15:10:00
Reviewed By:	BA	Date Reviewed:	11/23/09	

Work Order: K11038,K11121,K10313.K11262 Method: EPA 365.3

Analysis: Total Phosphorus as P

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L	0.000	0.010	0.050	0.100	0.200	0.500	0.700				(R) =	1.0000
Absorbance	0.000	0.019	0.098	0.196	0.400	1.015	1.407				Slope =	2.0192
											Y Int. =	-0.0021

Sample #	Sample #	Dil. Factor	Absorb. @ 650 nm	Conc. from Curve (mg/L)	background mg/L (solution)	Actual Conc. In solution (mg/L)	Initial Weight g	Final Vol. (ml)	mg/kg as rec'd	% Solid	mg/Kg Dry wt	mg/Kg Dry wt reported	MRL	MDL
11/20/2009	K0911121-007	100	0.627	0.3116		0.31	10.103	100	308.400	32.00	963.7	964	30.931407	12.372563
11/20/2009	CCB-3	1	0.002	0.0020		0.00	50	50	<0.004					
11/20/2009	CCV-3	1	0.999	0.4958		0.50	50	50	0.496					
11/20/2009	K0911121-008	250	0.887	0.4403		0.44	10.0414	100	1096.311	39.40	2782.5	2780	63.190169	25.276068
11/20/2009	K0911121-009	100	0.951	0.4720		0.47	10.017	100	471.234	37.80	1246.7	1250	26.410129	10.564052
11/20/2009	K0911121-003	250	0.567	0.2819		0.28	10.0374	100	702.029	83.10	844.8	845	29.97214	11.988856
11/20/2009	K0910313-005	500	0.794	0.3943		0.39	10.0024	100	1970					
11/20/2009	K0911262-001	500	0.723	0.3591		0.36	10.1944	100	1761.358	22.20	7934.0	7930	220.93034	88.372136
11/20/2009	K0911262-1D	500	0.694	0.3448		0.34	10.1255	100	1702.423	22.20	7668.6	7670	222.43368	88.973473
11/20/2009	K0911262-1MS	500	0.704	0.3497		0.35	10.0742	100	1735.672	22.20	7818.3	7820	223.56636	89.426545
11/20/2009	K0911262-1MSD	500	0.719	0.3571		0.36	10.0697	100	1773.334	22.20	7988.0	7990	223.66627	89.466509
11/20/2009	CCB-4	1	0.004	0.0030		0.00	50	50	<0.004					
11/20/2009	CCV-4	1	0.997	0.4948		0.49	50	50	0.495					

CCV = (0.5 mL x 100 ppm P) / 100 mL = 0.50 mg/L %Rec = 99%,99% ID#:PO3/3-22-S

K11262-1/1D X=7800 RPD=3%

K11262-1MS/1MSD % REC= NA

			date	Time:
Distilled by:	TM/SS	Date Distilled:	11/20/2009	13:15
Analyzed By:	SS	Date Analyzed:	11/21/2009	15:10:00
Reviewed By:	DH	Date Reviewed:	11/23/09	

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order # K11038,K11121,K10313,K11262 Method: EPA 365.3

Analysis: Total Phosphorus as P

Prep Date : 11/20/2009

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L)	0.000	0.010	0.050	0.100	0.200	0.500	0.700					
Absorbance	0.000	0.019	0.098	0.196	0.400	1.015	1.407					

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of @ 650 nm	background correction	% Solids
ICB	100	1	0.000		
ICV	100	1	0.840		
CCB-1	50	1	-0.001		
CCV-1	50	1	1.004		
MB	10.0256	1	-0.003		
LCS	0.5111	25	0.511		
K0911038-00	10.0671	100	0.633		51.8
K0911038-1D	10.0647	100	0.619		51.8
0911038-1M	10.0483	100	0.667		51.8
0911038-1MS	10.1822	100	0.718		51.8
K0911038-00	10.0143	100	0.866		82.5
K0911038-00	10.1780	100	0.959		34.1
K0911038-00	10.0602	100	0.502		64.4
K0911038-00	10.1100	100	0.839		46.9
CCB-2	50	1	0.001		
CCV-2	50	1	0.999		
K0911038-00	10.1454	100	0.845		45.9
K0911038-00	10.1868	100	1.372		31.9
K0911038-00	10.1578	250	0.585		35.9
K0911038-00	10.1002	100	1.016		67.5
K0911121-00	10.1697	100	1.221		37.4
K0911121-00	10.1765	100	0.691		34.8
K0911121-00	10.1332	100	1.015		32.8
K0911121-00	10.0704	250	0.810		44.0
K0911121-00	10.0604	250	0.779		29.0
K0911121-00	10.1030	100	0.627		32.0
CCB-3	50	1	0.002		
CCV-3	50	1	0.999		
K0911121-00	10.0414	250	0.887		39.4
K0911121-00	10.0170	100	0.951		37.8
K0911121-00	10.0374	250	0.567		83.1
K0910313-00	10.0024	500	0.794		
K0911262-00	10.1944	500	0.723		22.2
K0911262-1D	10.1255	500	0.694		22.2
0911262-1M	10.0742	500	0.704		22.2
0911262-1MS	10.0697	500	0.719		22.2
CCB-4	50	1	0.004		
CCV-4	50	1	0.997		

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of @ 650 nm	background mg/L (solution)	% Solids
		1			
		1			
		1			
		1			
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		1			
		1			
		1			
na	na	na	na	na	na

SS 11/23/09

BH1103N7

11/21/09.

SS Tphcx (soil)

DU520 S/N: 0112U2001732 1.03
21-NOV-09 17:10:37 SCA Group 1583
Wavelength: 650.0 nm
Formula: A=a+bC a: -0.0020 b: 2.0193

Sample		Net A	Dil X	mg/L	
0001	ICB	-0.000	1.0000	0.00	
0002	ICV	0.840	1.0000	0.42	
0003	CCB-1	-0.001	1.0000	0.00	
0004	CCV-1	1.004	1.0000	0.50	
0005	MB	-0.003	1.0000	-0.00	
0006	LCS	0.511 2/50	1.0000	0.25	
0007	K11038-1	0.633 0.5/50	1.0000	0.31	B111103M1
0008	-1d	0.619	1.0000	0.31	
0009	-1MS	0.667	1.0000	0.33	
0010	-1MSD	0.718	1.0000	0.36	
0011	-2	0.866	1.0000	0.43	
0012	-3	0.959	1.0000	0.48	
0013	-4	0.502	1.0000	0.25	
0014	-5	0.839	1.0000	0.42	
0015	CCB-2	0.001	1.0000	0.00	
0016	CCV-2	0.999	1.0000	0.50	
0017	K11038-6	0.845 0.5/50	1.0000	0.42	
0018	-7	1.372	1.0000	0.68	
0019	-8	~~1.422~~	~~1.0000~~	~~0.70~~	NR
0020	-8	0.585 0.2/50	1.0000	0.29 0.2/50	
0021	-9	1.016 0.5/50	1.0000	0.50	
0022	K10313-5	~~1.585~~ 0.2/50	~~1.0000~~	~~0.79~~	NR
0023	K11121-1	1.221 0.5/50	1.0000	0.61	
0024	-2	0.691	1.0000	0.34	
0025	-3	~~1.410~~	~~1.0000~~	~~0.70~~	NR
0026	-4	1.015 0.5/50	1.0000	0.50	
0027	-5	0.810 0.2/50	1.0000	0.40	
0028	-6	0.779	1.0000	0.39	
0029	-7	0.627 0.5/50	1.0000	0.31	
0030	CCB-3	0.002	1.0000	0.00	
0031	CCV-3	0.999	1.0000	0.50	
0032	K11121-8	0.887 0.2/50	1.0000	0.44	
0033	-9	0.951 0.5/50	1.0000	0.47	
0034	-3	0.567 0.2/50	1.0000	0.28	
0035	K10313-5	0.794 0.1/50	1.0000	0.39	
0036	K11262-1	0.723 0.1/50	1.0000	0.36	
0037	-1d	0.694	1.0000	0.34	
0038	-1MS	0.704	1.0000	0.35	
0039	-1MSD	0.719	1.0000	0.36	
0040	CCB-4	0.004	1.0000	0.00	
0041	CCV-4	0.997	1.0000	0.49	

11/21/09
15:10
SS
Tphos (soil)

DU520 S/N: 0112U2001732 1.03
21-NOV-09 17:10:14 SCA
Wavelength: 650.0 nm
Formula: A=a+bC a: -0.0020 b: 2.0193

mg/L	Net A	r2=1.000 Var=0.0000
0.0000	-0.000	
0.0100	0.019	
0.0500	0.098	
0.1000	0.196	
0.2000	0.400	
0.5000	1.015	
0.7000	1.407	

SH 11/23/09

10|368

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: K0911038, K0910313, K0911121, K11262 Method: EPA 365.3

Analysis: Total Phosphorus

Date Prepared	Sample Name / Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
11/20/09	MB	10.0256	100				
	K0911038-1	~~10.0734~~ ①					
	-1d	10.0647					
	-1ms	~~10.0525~~ ②					
	-1msd	10.1822					
	-2	10.0143					
	-3	10.1780					
	-4	10.0602					
	-5	10.1100					
	-6	10.1454					
	-7	10.1868					
	-8	10.1578					
	-9	10.1002					
	K0910313-5	10.0024					
	K0911121-1	10.1697					
	-2	10.1765					
	-3	10.0374					
	-4	10.1332					
	-5	10.0706					
	-6	10.0604					
	-7	10.1030					
	-8	10.0414					
	-9	10.0170					
	-10						

LCS T.V. = 1110 APG: 2185 Lot #: ID #: PO3|2-26-K

Spike(- s) = ml x ppm P / ICV = PO3|3-42-GG

Comments:

K11038-1MS = 2ml x 100ppm/10.0483/0.518 = 38.4 mg/kg

↓ - MSD = 4ml x 100 ppm/10.1822/0.518 = 75.8 mg/kg RPD =

Standard ID #: Spike Rec. =

Spike Dup Rec. =

Prepared By: TM/CS		Date Prepared: 11/20/09	1:15
Analyzes By: SS		Date Analyzed: 11/21/09	15:10
Reviewed By: BA		Date Reviewed: 11/23/09	

① 10.0671 11/20/09 TM T.E.
② 10.0483 11/20/09 TM T.E.

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: _____ Method: EPA 365.3

Analysis: Total Phosphorus

Date Prepared	Sample Name / Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
11/20/09	MB						
	K091121-11						
	-12						
	-13						
	-14						
	-15						
	K091126-1	10.1944	100				
	-1d	10.1255					
	-1ms	10.0742					
	-1msD	10.0697					
	LCS	0.5111					

LCS T.V. = 1110 APG: 2185 Lot #: ID #: P03/2-26-K

Spike(- s) = ml x ppm P /

Comments:

K11262-1MS = 2ml x 100ppm / 10.0742 / 0.222 = 89.4 mg/Kg

↓ -1MSD = 4ml x 100ppm / 10.0697 / 0.222 = 179 mg/Kg

Standard ID #: Spike Rec. =

Spike Dup Rec. =

Prepared By:	TM/SS	Date Prepared:	11/20/09 13:15
Analyzes By:	CS	Date Analyzed:	11/21/09 15:10
Reviewed By:	GA	Date Reviewed:	11/23/09

SS 11/20/09

Work Request #: (K1038) K1048

181178

Tier: III III

Date Analyzed: 11/25/09

Analyst: SCS

Analysis: AVS/SEM

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
   a. Is the calibration curve correlation coefficient ≥ 0.995? yes/no/NA
   b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
   c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
   d. Are results for methods blanks all ND? yes/no/NA
   e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
   f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

K1038-due 11/29

Final Approved by: BH Date: 12/14/09

DQREPORT

COLUMBIA ANALYTICAL SERVICES, INC. 181178

Work Order #: K11038 K11048 Method: 821/R-91-100

Analysis: Acid Volatile Sulfides

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L)	0.0000	0.0478	0.4775	0.9550	1.4325	1.9100	2.3875				(R) =	0.9987
Absorbance	0.0000	0.0341	0.3619	0.6954	1.0104	1.3009	1.5702				Slope =	0.6641
											Y Int. =	0.0264

Date Prep'd	Sample #	Dil. Factor	Absorb. @ 670 nm	Conc. from Curve (mg/L)	Actual Conc. (mg/L)	Initial Wt./Vol. (g) / (ml)	Final Vol. (ml)	A Tower mg/L (solution)	B Tower mg/L (solution)	A & B mg/L - mg/kg as rec'd	% Solid	mg/kg dry	umole/g reported	mrl	mdl
11/23/2009	ICV	1	1.435	2.1218	2.1218	40	40	2.12		2.12				######	#VALUE!
11/23/2009	ICB	1	0.000	-0.0397	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/23/2009	CCB1	1	0.000	-0.0397	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/23/2009	CCV1	1	1.301	1.9186	1.9186	40	40	1.92		1.92				######	#VALUE!
11/23/2009	MB	1	0.001	-0.0376	<0.05	50	40	<0.05	-0.03	<0.050				######	#VALUE!
11/23/2009	LCS	1	0.846	1.2341	1.6043	9.162	40	7.00	-0.17	7.00				######	#VALUE!
11/23/2009	11038-1	1	0.693	1.0040	1.0040	9.128	40	4.40	-0.17	4.40	51.8	8.49	0.265	0.030	0.006
11/23/2009	11038-1D	1	0.610	0.8791	0.8791	9.122	40	3.86	-0.17	3.86	51.8	7.44	0.232	0.030	0.006
11/23/2009	11038-1S	100	0.593	0.8526	85.2632	9.396	40	362.98	-0.16	362.98	51.8	700.73	21.9	3.011	0.602
11/23/2009	11038-1SD	100	0.586	0.8433	84.3295	9.047	40	372.85	-0.17	372.85	51.8	719.79	22.5	3.011	0.602
11/23/2009	11038-2	1	0.758	1.1019	1.1019	9.029	40	4.88	-0.17	4.88	82.5	5.92	0.185	0.019	0.004
11/23/2009	11038-3	20	0.660	0.9535	19.0705	9.202	40	82.90	-0.17	82.90	34.1	243.10	7.58	0.915	0.183
11/23/2009	11038-4	1	0.578	0.8302	0.8302	9.938	40	3.34	-0.16	3.34	64.4	5.19	0.162	0.024	0.005
11/23/2009	11038-5	5	0.357	0.4976	2.4878	9.697	40	10.26	~~0.09~~	10.35	46.9	~~22.07~~	~~0.689~~	0.166	0.033
11/23/2009	CCV2	1	1.286	1.8974	1.8974	40	40	1.90		1.90				######	#VALUE!
11/23/2009	CCB2	1	0.000	-0.0396	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/23/2009	11038-6	1	0.421	0.5941	0.5941	9.134	40	2.60	-0.17	2.60	45.9	5.67	0.177	0.034	0.007
11/23/2009	11038-7	1	0.261	0.3525	0.3525	8.865	40	1.59	-0.17	1.59	31.9	4.99	0.156	0.049	0.010
11/23/2009	11038-8	1	0.316	0.4354	0.4354	9.004	40	1.93	-0.17	1.93	35.9	5.39	0.168	0.043	0.009
11/23/2009	11038-9	1	0.489	0.6969	0.6969	9.431	40	2.96	-0.17	2.96	67.5	4.38	0.137	0.023	0.005
11/23/2009	11048-1	1	0.582	0.8364	0.8364	8.962	40	3.73	-0.17	3.73	51.6	7.23	0.226	0.030	0.006
11/23/2009	11048-2	1	0.441	0.6243	0.6243	8.999	40	2.78	-0.17	2.78	80.0	3.47	0.108	0.019	0.004
11/23/2009	CCV3	1	1.294	1.9091	1.9091	40	40	1.91		1.91				######	#VALUE!
11/23/2009	CCB3	1	0.000	-0.0397	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/23/2009	CCV4	1	1.294	1.9085	1.9085	40	40	1.91		1.91				######	#VALUE!

CCV =2ml*38.2mg/l/40ml= 1.91mg/L %REC = 101, 99, 100, 100, 99

LCS =2ml*38.2mg/l/ 9.162g =8.34mg/L %REC = 84

ICV = 2.25ml*38.2mg/L/40ml = 2.15mg/l %REC = 99

K11038-1MS = (1ml*3820mg/L/9.396g)/0.518/32.06 = 24.4umole/g %REC = 89

K11038-1MSd = (1ml*3820mg/L/9.047g)/0.518/32.06 = 25.4umole/g %REC = 88

K11038-1+1D X= 0.249umole/g RPD= 13 STD ID# s2/2-2-G CONC. = 3820mg/L

Distilled by:	SLS	Date Distilled:	11/23/09 1110
Analyzed By:	SLS	Date Analyzed:	11/25/09 1145
Reviewed By:	AH	Date Reviewed:	12/4/09

11-23-09

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #: K11038 K11048 Method: 821/R-91-100

Analysis: Acid Volatile Sulfides

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7
Conc. (mg/L)	0.0000	0.0478	0.4775	0.9550	1.4325	1.9100	2.3875
Absorbance	0.0000	0.0341	0.3619	0.6954	1.0104	1.3009	1.5702

(R) =	0.9987
Slope =	0.6641
Y Int. =	0.0264

Date Prep'd	Sample #	Dil. Factor	Absorb. @ 670 nm	Conc. from Curve (mg/L)	Actual Conc. (mg/L)	Initial Wt./Vol. (g) / (ml)	Final Vol. (ml)	A Tower mg/L (solution)	B Tower mg/L (solution)	A & B mg/L - mg/kg as rec'd	% Solid	mg/kg Dry	umole/g reported	mrl	mdl
11/23/2009	CCB4	1	0.000	-0.0393	<0.05	40	40	<0.05		<0.050				#VALUE!	#VALUE!
11/23/2009	CCV5	1	1.289	1.9007	1.9007	40	40	1.90		1.90				#VALUE!	#VALUE!
11/23/2009	CCB5	1	0.000	-0.0393	<0.05	40	40	<0.05		<0.050				#VALUE!	#VALUE!
11/23/2009														#VALUE!	#VALUE!
11/23/2009														#VALUE!	#VALUE!
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11/23/2009														#VALUE!	#VALUE!
11/23/2009														#VALUE!	#VALUE!

Distilled by:	SLS	Date Distilled:	11/23/09
Analyzed By:	SLS	Date Analyzed:	11/23/09
Reviewed By:	DH	Date Reviewed:	12/4/09

11-23-09

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order # K11038 K11048 Method: 821/R-91-100

Analysis: Acid Volitile Sulfide

Prep Date : 11/23/2009

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L)	0.0000	0.0478	0.4775	0.9550	1.4325	1.9100	2.3875					
Absorbance	0.0000	0.0341	0.3619	0.6954	1.0104	1.3009	1.5702					

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of A tower @ 670 nm	Abs of B tower @ 670 nm	% Solids
ICV	40	1	1.4354		
ICB	40	1	0.000		
CCB	40	1	0.000		
CCV	40	1	1.3005		
MB	50	1	0.0014	0.0016	
LCS	9.162	1	0.8459	0.0012	
11038-1	9.128	1	0.6931	0.0006	51.8
11038-1D	9.122	1	0.6102	0.0010	51.8
11038-1S	9.396	100	0.5926	0.0009	51.8
11038-1SD	9.047	100	0.5864	0.0010	51.8
11038-2	9.029	1	0.7581	0.0007	82.5
11038-3	9.202	20	0.6596	0.0007	34.1
11038-4	9.938	1	0.5777	0.0008	64.4
11038-5	9.697	5	0.3568	0.041	46.9
CCV2	40	1	1.2864		
CCB2	40	1	0.0001		
11038-6	9.134	1	0.4209	0.0010	45.9
11038-7	8.865	1	0.2605	0.0009	31.9
11038-8	9.004	1	0.3155	0.0011	35.9
11038-9	9.431	1	0.4892	0.0004	67.5
11048-1	8.962	1	0.5818	0.0010	51.6
11048-2	8.999	1	0.4410	0.0010	80.0
CCV3	40	1	1.2942		
CCB3	40	1	0.000		
CCV4	40	1	1.2938		
CCB4	40	1	0.0003		
CCV5	40	1	1.2886		
CCB5	40	1	0.0003		

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of A tower @ 670 nm	Abs of B tower @ 670 nm	% Solids

SLS 11/23/09

B 11/24/09

Date : 11/25/2009 Time : 12:12:15

Concentration Results

Date: 11/25/2009 Time: 11:46:14 AM
Instrument: PerkinElmer Lambda 25 Serial No: 501S08110503
Method: 11-24-09
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 11-24-09.RCO
Autozero performed: 11/25/2009 11:43:24 AM
Analyst: cfs

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
670.0	0.0	ICV	1.4354	1.0000	2.1217	mg/l	
670.0	0.0	ICB	-0.000	1.0000	-0.041*	mg/l	
670.0	0.0	CCB1	-0.000	1.0000	-0.041*	mg/l	
670.0	0.0	CCV1	1.3005	1.0000	1.9186	mg/l	
670.0	0.0	MB	0.0014	1.0000	-0.037	mg/l	
670.0	0.0	LCS	0.8459	1.0000	1.2340	mg/l	
670.0	0.0	11038-1	0.6931	1.0000	1.0039	mg/l	
670.0	0.0	11038-1D	0.6102	1.0000	0.8791	mg/l	
670.0	0.0	11038-1S 100x	0.5926	1.0000	0.8526	mg/l	
670.0	0.0	11038-1S 100x	0.5864	1.0000	0.8432	mg/l	
670.0	0.0	11038-2	0.7581	1.0000	1.1018	mg/l	SLS 11/25/09
670.0	0.0	11038-3 20x	0.6596	1.0000	0.9536	mg/l	
670.0	0.0	11038-4	0.5777	1.0000	0.8302	mg/l	
670.0	0.0	11038-5 5x	0.3568	1.0000	0.4975	mg/l	
670.0	0.0	CCV2	1.2864	1.0000	1.8974	mg/l	
670.0	0.0	CCB2	0.0001	1.0000	-0.039	mg/l	
670.0	0.0	11038-6	0.4209	1.0000	0.5940	mg/l	[illegible]
670.0	0.0	11038-7	0.2605	1.0000	0.3526	mg/l	
670.0	0.0	11038-8	0.3155	1.0000	0.4354	mg/l	
670.0	0.0	11038-9	0.4892	1.0000	0.6970	mg/l	
670.0	0.0	11048-1	0.5818	1.0000	0.8363	mg/l	
670.0	0.0	11048-2	0.4410	1.0000	0.6243	mg/l	
670.0	0.0	CCV3	1.2942	1.0000	1.9092	mg/l	
670.0	0.0	CCB3	-0.000	1.0000	-0.040*	mg/l	
670.0	0.0	MBb	0.0016	1.0000	-0.037	mg/l	
670.0	0.0	LCSb	0.0012	1.0000	-0.037	mg/l	
670.0	0.0	11038-1b	0.0006	1.0000	-0.038	mg/l	
670.0	0.0	11038-1D	0.0010	1.0000	-0.038	mg/l	
670.0	0.0	11038-1S	0.0009	1.0000	-0.038	mg/l	
670.0	0.0	11038-1S	0.0010	1.0000	-0.038	mg/l	
670.0	0.0	11038-2b	0.0007	1.0000	-0.038	mg/l	
670.0	0.0	11038-3b	0.0007	1.0000	-0.038	mg/l	
670.0	0.0	11038-4b	0.0008	1.0000	-0.038	mg/l	
670.0	0.0	11038-5b	-0.041	1.0000	-0.102*	mg/l	
670.0	0.0	CCV4	1.2938	1.0000	1.9086	mg/l	
670.0	0.0	CCB4	0.0003	1.0000	-0.039	mg/l	
670.0	0.0	11038-6b	0.0010	1.0000	-0.038	mg/l	
670.0	0.0	11038-7b	0.0009	1.0000	-0.038	mg/l	
670.0	0.0	11038-8b	0.0011	1.0000	-0.038	mg/l	
670.0	0.0	11038-9b	0.0004	1.0000	-0.039	mg/l	
670.0	0.0	11048-1b	0.0010	1.0000	-0.038	mg/l	
670.0	0.0	11048-2b	0.0010	1.0000	-0.038	mg/l	
670.0	0.0	CCV5	1.2886	1.0000	1.9007	mg/l	
670.0	0.0	CCB5	0.0003	1.0000	-0.039	mg/l	

Date : 11/25/2009 Time : 11:45:40 3820

CALIBRATION

181178

Date: 11/25/2009 Time: 11:43:25 AM
Instrument: PerkinElmer Lambda 25 Serial No: 501S08110503
Method: 11-24-09
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst: cfs

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
670.0	0.0	11-24-09.A01	0.0000	mg/l	0.0000	
670.0	0.0	11-24-09.A02	0.0478	mg/l	0.0341	
670.0	0.0	11-24-09.A03	0.4775	mg/l	0.3619	
670.0	0.0	11-24-09.A04	0.9550	mg/l	0.6954	SLS 11/25/09
670.0	0.0	11-24-09.A05	1.4325	mg/l	1.0104	
670.0	0.0	11-24-09.A06	1.9100	mg/l	1.3009	
670.0	0.0	11-24-09.A07	2.3875	mg/l	1.5702	

Equation: y = 2.639481e-02 + 6.640717e-01 * x

Residual error: 0.033678
Correlation coefficient: 0.998745

GH 11/29/09

11/29

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: K11038 K11048

Method: 821/R-91-100

Analysis: AVS/SEM

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	AVS - Final Volume (mL)	mLs 50% HCl added	SEM - Final Volume (mL)	Sample description:
11/23/09	MB	50m	40	10	100	—
	LCS	9.162				—
	K11038-1	9.128				mud, water
	-1d	9.122				
	-1s	9.396				
	-1sd	9.047				
	-2	9.029				sand, rocks
	-3	9.202				mud, water
	-4	9.938				mud, water, rocks
	-5	9.697				mud, water
	-6	9.134				mud, water, leaves
	-7	8.865				mud, water
	-8	9.004				mud, water, rocks
	-9	9.431				
	K11048-1	8.962				
	-2	8.999				sand

LCS 1 = % REC =

LCS 2 = % REC =

Spike = % REC =

Spike Dup.= % REC =

x =

STD ID# = RPD =

Prepared By: SLS		Date Prepared:	11/23/09 1110
Analyzes By: SLS		Date Analyzed:	11/25/09 1145
Reviewed By: BH		Date Reviewed:	12/4/09

101546

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sedime/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
LPRT01C	K0911038-001	11/09/2009	11/12/2009	11/13/2009	51.8	
LPRT09H	K0911038-002	11/09/2009	11/12/2009	11/13/2009	82.5	
LPRT02C	K0911038-003	11/09/2009	11/12/2009	11/13/2009	34.1	
LPRT01E	K0911038-004	11/09/2009	11/12/2009	11/13/2009	64.4	
LPRT06C	K0911038-005	11/09/2009	11/12/2009	11/13/2009	46.9	
LPRT06C-FD	K0911038-006	11/09/2009	11/12/2009	11/13/2009	45.9	
LPRT02D	K0911038-007	11/10/2009	11/12/2009	11/13/2009	31.9	
LPRT03C	K0911038-008	11/10/2009	11/12/2009	11/13/2009	35.9	
LPRT09A	K0911038-009	11/10/2009	11/12/2009	11/13/2009	67.5	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Stratus Consulting, Incorporated
Project: Portland Harbor
Sample Matrix: Sediment

Service Request: K0911048

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
PH-01-01-101109	K0911048-001	11/10/2009	11/13/2009	11/17/2009	51.6	
SR-01-01-121109	K0911048-002	11/12/2009	11/13/2009	11/17/2009	80.0	

Work Request # (Original) K11038 K10913L6 K11121

Tier: V V V

Date Analyzed: 11/20/09

Analyst: DL

Analysis: CN tot

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no/NA
a.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
b.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
c.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
d.	Are results for methods blanks all ND?	yes/no/NA
e.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
f.	Are all exceptions explained?	yes/no/NA
6.	Are all service requests that apply attached?	yes/no/NA
7.	Are all samples labelled correctly?	yes/no/NA
8.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)	yes/no/NA
9.	Are detection limits and units reported correctly?	yes/no/NA
10.	Are proper Analysis/Extraction stickers included on report?	yes/no/NA
11.	Is the unused space on the benchsheet crossed out?	yes/no/NA
12.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS: low distillation point failed low

spikes failed due to matrix interference

Final Approved by: [signature] Date: 11/30/09

DQREPORT

Method: EPA 335.1 / 335.4

9012 / SM 4500-CN I&E / SM 4500-CN C&E

Analysis: Analysis: Total CN^- CN^- WAD Chlor. CN^-

Method modified using the Lachat Autoanalyzer for the colorimetric analysis.

Date Prepared	Lab Sample ID	Sample Dilution	Initial Wt./Vol (g) or (ml)	Final Volume (ml)	ug/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	Reported mg/Kg(Dry)	MRL	MDL
11/18/2009	MB	1	3.050	25	① 1.160 ~~1.159~~	0.010	100.0	0.010	0.010	0.164	0.033
11/18/2009	LCS	5	1.000	25	201.8	25.075	100.0	25.075	25.1	2.49	0.497
11/18/2009	0.15	2	50	25	158.4	0.158					
11/18/2009	0.05	1	50	25	73.3	0.037					
11/18/2009	11038-1	1	2.810	25	3.614	0.032	51.8	0.062	<0.069	0.344	0.069
11/18/2009	11038-1d	1	3.129	25	2.863	0.023	51.8	0.044	<0.062	0.308	0.062
11/18/2009	11038-1s	1	3.620	25	20.51	0.142	51.8	0.273	0.273	0.267	0.053
11/18/2009	11038-1sd	1	3.408	25	11.71	0.086	51.8	0.166	0.166 J	0.283	0.057
11/18/2009	11038-2	1	2.721	25	8.42	0.077	82.5	0.094	0.094 J	0.223	0.045
11/18/2009	11038-3	1	3.078	25	7.59	0.062	34.1	0.181	0.181 J	0.476	0.095
11/18/2009	11038-4	1	2.832	25	2.596	0.023	64.4	0.036	<0.055	0.274	0.055
11/18/2009	11038-5	1	4.360	25	21.08	0.121	46.9	0.258	0.258	0.245	0.049
11/18/2009	11038-6	1	4.318	25	24.22	0.140	45.9	0.306	0.306	0.252	0.050
11/18/2009	11038-7	1	3.803	25	6.987	0.046	31.9	0.144	0.144 J	0.412	0.082
11/18/2009	11038-8	1	3.484	25	8.346	0.060	35.9	0.167	0.167 J	0.400	0.080
11/18/2009	11038-9	1	2.845	25	3.83	0.034	67.5	0.050	<0.053	0.260	0.052
11/18/2009	10936-1	1	3.382	25	2.851	0.021	20.3	0.104	<0.146	0.728	0.146
11/18/2009	10936-2	1	2.691	25	6.026	0.056	20.2	0.277	0.277 J	0.920	0.184
11/18/2009	10936-3	1	2.916	25	2.533	0.022	19.9	0.109	<0.173	0.862	0.172
11/18/2009	10936-4	1	3.845	25	2.183	0.014	59.0	0.024	<0.045	0.220	0.044

Comments: All standards and total cyanides distilled with sulfamic acid.

LCS: Inorganic Ventures Lot #: D522 ID # CN/5-93-U T.V. =26.6 mg/kg % REC: 94

0.15 Distilled = (0.75 mL x 10 ppm KCN) / 50 mL %REC= 106 Qualitative test for sulfides:X

0.05 Distilled= (0.25 mL x 10 ppm KCN) / 50 mL %REC= 74 Qualitative test for oxidants:X

10 ppm KCN ID #: CN/5-26-ee

11038-1ms= ((0.50 mL x 10 ppm KCN) / 3.620 x (51.8%) = 2.67 % REC: = 10 ① DL TE 11/30/09

11038-1/1d x = ND RPD = <1

11038-1msd= ((0.50 mL x 10 ppm KCN) / 3.408 x (51.8%) = 2.83 % REC: = 6

11038-1 sample matrix interference caused spikes to fail.

		date	time
Prepared By: DL	Date Prepare	11/18/2009	
Analyzed By: DL	Date Analyzed:	11/20/09	
Reviewed By:	Date Reviewed:	11/30/09	

Method: EPA 335.1 / 335.4

9012 / SM 4500-CN I&E / SM 4500-CN C&E

Analysis: Analysis: Total CN^- CN^- WAD Chlor. CN^-

Method modified using the Lachat Autoanalyzer for the colorimetric analysis.

Date Prepared	Lab Sample ID	Sample Dilution	Initial Wt./Vol (g) or (ml)	Final Volume (ml)	ug/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	Reported mg/Kg(Dry)	MRL	MDL
11/18/2009	10936-5	1	2.849	25	3.873	0.034	60.0	0.057	<0.060	0.293	0.059
11/18/2009	10936-6	1	4.412	25	9.823	0.056	62.4	0.089	0.089 J	0.182	0.036
11/18/2009	11121-1	1	2.817	25	4.481	0.040	37.4	0.106	0.106 J	0.475	0.095
11/18/2009	11121-2	1	4.173	25	10.32	0.062	34.8	0.178	0.178 J	0.344	0.069
11/18/2009	11121-3	1	4.042	25	26.92	0.167	83.1	0.200	0.200	0.149	0.030
11/18/2009	11121-4	1	4.409	25	18.49	0.105	32.8	0.320	0.320 J	0.346	0.069
11/18/2009	11121-5	1	2.649	25	3.034	0.029	44.0	0.065	<0.087	0.429	0.086

Prepared By: DL	Date Prepare 11/18/2009
Analyzed By: DL	Date Analyzed: 11/20/09
Reviewed By:	Date Reviewed: 11/30/09

Author: Omnion User

Date : 11/20/2009

Original Run Filename: OM_11-20-2009_02-56-43PM.OMN created 11/20/2009 2:56:43 PM
Original Run Author's Signature: [Omnion User]
Current Run Filename: OM_11-20-2009_02-56-43PM.OMN last modified 11/20/2009 6:12:55 PM
Current Run Author's Signature: [Omnion User]
Description: Default new Run

Sample	Rep.	Channel 2 Cyanide (ug/L)	
Cal Std A	1	300.0	
Cal Std B	1	200.0	
Cal Std C	1	150.0	
Cal Std D	1	100.0	
Cal Std E	1	50.00	
Cal Std F	1	20.00	
Cal Std G	1	10.00	
	2	10.00	
Blank	1	0.000	
	2	0.000	
ICV	1	145.3	97
Calibration:		Table/Fig. 1	
ICB	1	1.341	<10
CCV	1	95.47	95
Known Conc:		100.0	
CCB	1	1.272	<10
Known Conc:		0.000	
MB 11.9	1	0.9859	
LCS	1	120.9	NR
0.150 dist 2X	1	148.6	
0.050 dist	1	69.84	
10617-10	1	1.087	
10617-10d	1	1.303	
10617-10s	1	141.3	
10617-10sd	1	117.4	
10617-2	1	1.084	
10617-3	1	24.00	
CCV	1	95.80	96
Known Conc:		100.0	
CCB	1	1.255	<10
Known Conc:		0.000	
10617-11	1	1.111	
10617-13	1	1.044	
10617-17	1	1.478	
10617-29	1	1.144	
10617-31	1	1.122	
10364-13	1	1.037	
10364-14	1	1.133	
10364-15	1	1.061	
10364-17	1	52.47	
10364-19	1	1.231	
CCV	1	95.85	96
Known Conc:		100.0	
CCB	1	1.050	<10
Known Conc:		0.000	
10364-20	1	1.576	
10364-21	1	1.051	
10364-25	1	1.814	
10816-1	1	2.633	
MB 11.9 solids	1	1.059	
LCS 5x	1	194.8	
10359-13	1	11.39	
10359-13d	1	2.592	
10359-13s	1	14.34	
10359-13sd	1	11.84	
CCV	1	95.76	96
Known Conc:		100.0	
CCB	1	1.265	<10

DL 11/20/09

SAN 11/30/09

CCV	1	95.80	96
Known Conc:		100.0	
CCB	1	1.242	<10
Known Conc:		0.000	
10715-8	1	6.562	
10715-9	1	3.198	
10715-10	1	3.341	
10715-11	1	3.508	
10715-12	1	14.90	
10715-14	1	10.64	
10715-15	1	3.362	
10715-16	1	4.366	
10845-1	1	7.071	
10845-3	1	3.408	
CCV	1	95.89	96
Known Conc:		100.0	
CCB	1	1.399	<10
Known Conc:		0.000	
10845-4	1	8.942	
10845-5	1	6.687	
10594-1	1	4.850	
10896-1	1	9.532	
MB 11.14	1	1.067	
LCS	1	107.1	NR
0.150 dist 2x	1	139.6	
0.050 dist	1	70.32	
10946-1	1	1.487	
10946-1d	1	1.153	
CCV	1	95.94	96
Known Conc:		100.0	
CCB	1	1.306	<10
Known Conc:		0.000	
10946-1s	1	182.4	
10946-1sd	1	174.8	
10699-1	1	1.665	
10737-1	1	1.074	
10737-2	1	1.661	
10811-2	1	1.078	
10820-2	1	1.551	
10895-2	1	3.572	
10931-1	1	1.206	
10911-2	1	1.187	
CCV	1	95.67	96
Known Conc:		100.0	
CCB	1	1.279	<10
Known Conc:		0.000	
10911-5	1	1.501	
10223-2	1	4.081	
10757-2	1	1.523	
10758-2	1	182.6	
10908-1	1	2.324	
10916-1	1	1.629	
10976-1	1	11.38	
11040-1	1	1.095	
10934-1	1	67.44	
10934-2	1	65.91	
CCV	1	95.68	96
Known Conc:		100.0	
CCB	1	1.305	<10
Known Conc:		0.000	
MB 11.16 solids	1	1.005	
LCS 5x	1	182.5	
0.150 dist 2x	1	155.6	
0.050 dist	1	79.50	
10845-6	1	9.975	
10845-6d	1	11.32	
10845-6s	1	31.75	

DL 11/20/09

11/30/09

Known Conc:		0.000	
10359-14	1	2.885	
10359-15	1	2.776	
10359-16	1	28.54	
10359-17	1	3.730	
10359-18	1	2.119	
10359-19	1	5.809	
10359-20	1	2.120	
10359-21	1	7.179	
10359-22	1	1.759	
10359-23	1	5.013	
CCV	1	95.72	96
Known Conc:		100.0	
CCB	1	1.356	<10
Known Conc:		0.000	
MB 11.10	1	0.9644	
LCS	1	20.35	
0.150 dist 2x	1	24.98	
0.050 dist	1	3.919	
10652-1	1	1.055	
10652-1d	1	0.9660	
10652-1s	1	31.00	
10652-1sd	1	10.73	
10652-2	1	1.000	
10652-3	1	0.9980	
CCV	1	94.66	95
Known Conc:		100.0	
CCB	1	1.363	<10
Known Conc:		0.000	
10652-4	1	1.068	
10652-5	1	1.059	
10652-21	1	0.9338	
10652-22	1	1.089	
10652-23	1	1.010	
10652-24	1	1.038	
10652-25	1	1.060	
10692-1	1	0.9799	
10692-2	1	1.059	
10818-1	1	1.588	
CCV	1	95.64	96
Known Conc:		100.0	
CCB	1	1.305	<10
Known Conc:		0.000	
10821-3	1	0.9324	
10821-4	1	1.835	
10713-1	1	179.3	
10713-2	1	159.3	
10800-1	1	1.266	
10800-2	1	7.208	
10841-1	1	2.110	
MB 11.11 solids	1	1.058	
LCS 5x	1	161.9	NR
0.150 dist 2x	1	22.45	
CCV	1	95.91	96
Known Conc:		100.0	
CCB	1	1.218	<10
Known Conc:		0.000	
0.050 dist	1	0.8992	
10715-1	1	2.256	
10715-1d	1	1.633	
10715-1s	1	22.06	
10715-1sd	1	26.32	
10715-2	1	1.937	
10715-4	1	2.399	
10715-5	1	5.542	
10715-6	1	4.002	
10715-7	1	2.123	

NR

① fail LCS

NR

DL 11/20/09

NR

11/30/09

10845-6sd	1	23.66	
10845-7	1	8.225	
10845-8	1	3.904	
CCV	1	95.92	96
Known Conc:		100.0	
CCB	1	1.368	<10
Known Conc:		0.000	
10845-9	1	8.516	
10845-10	1	5.626	
10845-11	1	1.695	
10845-12	1	9.249	
10845-13	1	13.71	
10845-14	1	6.788	
10845-15	1	5.346	
10845-16	1	6.652	
10845-17	1	5.855	
10845-18	1	8.285	
CCV	1	95.96	96
Known Conc:		100.0	
CCB	1	1.067	<10
Known Conc:		0.000	
10845-19	1	7.068	
10847-1	1	6.546	
10847-2	1	60.30	
10313-3	1	186.8	
10955-1	1	499.9	NR
10955-1d	1	37.11	NR
10955-1t	1	517.4	NR
MB 11.18 solids	1	1.159	NR
LCS 5x	1	201.8	
0.150 dist 2x	1	158.4	
CCV	1	95.77	96
Known Conc:		100.0	
CCB	1	1.352	<10
Known Conc:		0.000	
0.050 dist	1	73.33	
11038-1	1	3.614	
11038-1d	1	2.863	
11038-1s	1	20.51	
11038-1sd	1	11.71	
11038-2	1	8.420	
11038-3	1	7.590	
11038-4	1	2.596	
11038-5	1	21.08	
11038-6	1	24.22	
CCV	1	95.49	95
Known Conc:		100.0	
CCB	1	1.414	<10
Known Conc:		0.000	
11038-7	1	6.865	
11038-8	1	8.582	
11038-9	1	3.834	
10936-1	1	2.897	
10936-2	1	5.975	
10936-3	1	2.612	
10936-4	1	2.305	
10936-5	1	3.995	
10936-6	1	9.935	
11121-1	1	5.723	
CCV	1	97.26	97
Known Conc:		100.0	
CCB	1	99.07	
Known Conc:		0.000	
11121-2	1	10.61	
11121-3	1	28.35	

11/20/09

NR failed CCB

11/30/09

Author: Omnion User

Date : 11/20/2009

Original Run Filename: OM_11-20-2009_06-14-38PM.OMN created 11/20/2009 6:14:38 PM
Original Run Author's Signature: [Omnion User]
Current Run Filename: OM_11-20-2009_06-14-38PM.OMN last modified 11/20/2009 6:50:35 PM
Current Run Author's Signature: [Omnion User]
Description: Default new Run

Sample	Rep.	Channel 2 Cyanide (ug/L)	
CCV	1	95.41	95
Known Conc:		100.0	
CCB	1	1.378	<10
Known Conc:		0.000	
11038-7	1	6.987	
11038-8	1	8.346	
11038-9	1	3.830	
10936-1	1	2.851	
10936-2	1	6.026	
10936-3	1	2.533	
10936-4	1	2.183	
10936-5	1	3.873	
10936-6	1	9.823	
11121-1	1	4.481	
CCV	1	95.60	96
Known Conc:		100.0	
CCB	1	1.388	<10
Known Conc:		0.000	
11121-2	1	10.32	
11121-3	1	26.92	
11121-4	1	18.49	
11121-5	1	3.034	
MB 11.18	1	1.141	
LCS	1	145.8	
11211-1	1	1.759	
11211-1d	1	1.326	
11211-1s	1	124.4	
11211-1sd	1	155.5	
CCV	1	96.02	96
Known Conc:		100.0	
CCB	1	1.374	<10
Known Conc:		0.000	
10715-17	1	1.175	
10845-2	1	1.666	
LCS 11.9	1	134.2	
LCS solids 5x	1	188.4	
LCS 11.14	1	146.2	
10955-1 2x	1	259.0	
10955-1t 2x	1	282.7	
10955-1d	1	36.93	
MB 11.18	1	1.160	
CCV	1	95.16	95
Known Conc:		100.0	
CCB	1	1.452	<10
Known Conc:		0.000	

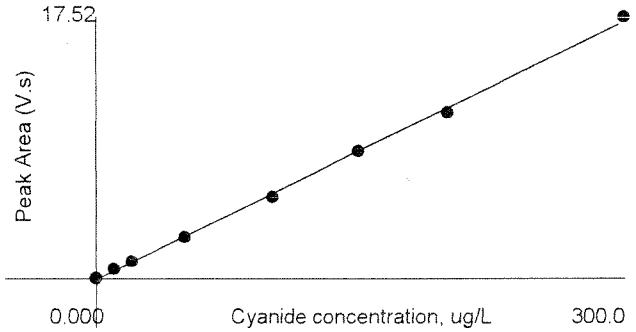
DL 11/20/09

11/30/09

Table 1: Cyanide

	Known Conc. (ug/L)	Rep	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc. (ug/L)	Detection Date	Detection Time
1	300.0	1	17.52	1.038	0.0	-1.9	305.6	11/20/2009	2:57:31 PM
2	200.0	1	11.09	0.6654	0.0	3.1	193.8	11/20/2009	2:58:22 PM
3	150.0	1	8.523	0.5117	0.0	0.5	149.2	11/20/2009	2:59:13 PM
4	100.0	1	5.444	0.3262	0.0	4.3	95.71	11/20/2009	3:00:06 PM
5	50.00	1	2.775	0.1672	0.0	1.5	49.30	11/20/2009	3:00:58 PM
6	20.00	1	1.146	0.06872	0.0	-4.9	20.99	11/20/2009	3:01:52 PM
7	10.00	1	0.6063	0.03688	0.4	-17.0	11.60	11/20/2009	3:02:46 PM
8	10.00	2	0.6027	0.03724	0.4	-16.3	11.54	11/20/2009	3:03:41 PM
9	0.000	1	0.006208	0.001283			1.171	11/20/2009	3:04:35 PM
10	0.000	2	0.001391	0.001690			1.087	11/20/2009	3:05:31 PM

Figure 1: Cyanide



Area = 0.05746 * Conc - 0.05617
Conc = 17.38 * Area + 1.063
Correlation Coefficient (r) = 0.99949

No Weighting

DL 11/20/09

11/30/09

COLUMBIA ANALYTICAL SERVICES, INC.

Page of

Run #80364

Method: EPA 335.1 / 335.4

9012 / SM 4500-CN I&E / SM 4500-CN C&E

Analysis: Analysis: Total CN^- CN^- WAD Chlor. CN^-

Method modified using the Lachat Autoanalyzer for the colorimetric analysis.

Date Prepared	Lab Sample ID	Sample Dilution	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	ug/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	Reported mg/Kg(Dry)	MRL	MDL
11/18/2009	MB	1	3.050	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	LCS	1	① ~~1.283~~ 1.006	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	0.15	2	50	25		0.000				#DIV/0!	#DIV/0!
11/18/2009	0.05	1	50	25		0.000				#DIV/0!	#DIV/0!
11/18/2009	11038-1	1	2.810	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-1d	1	3.129	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-1s	1	3.620	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-1sd	1	3.408	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-2	1	2.721	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-3	1	3.078	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-4	1	2.832	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-5	1	4.360	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-6	1	4.318	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-7	1	3.803	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-8	1	3.484	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11038-9	1	2.845	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	10936-1	1	① ~~2.817~~ 3.382	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	10936-2	1	2.691	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	10936-3	1	2.916	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	10936-4	1	3.849	25		#DIV/0!				#DIV/0!	#DIV/0!

Comments: All standards and total cyanides distilled with sulfamic acid.

LCS: Inorganic Ventures Lot #: D522 ID # CN/5-93-U T.V. =26.6 mg/kg % REC:

0.15 Distilled = (0.75 mL x 10 ppm KCN) / 50 mL %REC= Qualitative test for sulfides:X

0.05 Distilled= (0.25 mL x 10 ppm KCN) / 50 mL %REC= Qualitative test for oxidants:X

10 ppm KCN ID #: CN/5-26-ee

① DL 11/18/09 TE

11038-1ms= ((0.50 mL x 10 ppm KCN) / % REC: =

11038-1/1d x = RPD =

11038-1msd= ((0.50 mL x 10 ppm KCN) / % REC: =

		date	time
Prepared By: DL	Date Prepared	11/18/2009	
Analyzed By: DL	Date Analyzed:	11/20/09	
Reviewed By:	Date Reviewed:	11/30/09	

Method: EPA 335.1 / 335.4

9012 / SM 4500-CN I&E / SM 4500-CN C&E

Analysis: Analysis: Total CN^- CN^- WAD Chlor. CN^-

Method modified using the Lachat Autoanalyzer for the colorimetric analysis.

Date Prepared	Lab Sample ID	Sample Dilution	Initial Wt./Vol (g) or (ml)	Final Volume (ml)	ug/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	Reported mg/Kg(Dry)	MRL	MDL
11/18/2009	10936-5	1	2.849	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	10936-6	1	4.412	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11121-1	1	2.817	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11121-2	1	4.173	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11121-3	1	4.042	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11121-4	1	4.409	25		#DIV/0!				#DIV/0!	#DIV/0!
11/18/2009	11121-5	1	2.649	25		#DIV/0!				#DIV/0!	#DIV/0!

Prepared By: DL	Date Prepared 11/18/2009
Analyzed By: DL	Date Analyzed: 11/20/09
Reviewed By:	Date Reviewed: 11/30/09

Work Request # (K11038)

Tier: III

180113

Date Analyzed: 11/17/09

Analyst: SCS

Analysis: 9030M

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no/NA
a.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
b.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
c.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
d.	Are results for methods blanks all ND?	yes/no/NA
e.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
f.	Are all exceptions explained?	yes/no/NA
6.	Are all service requests that apply attached?	yes/no/NA
7.	Are all samples labelled correctly?	yes/no/NA
8.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)	yes/no/NA
9.	Are detection limits and units reported correctly?	yes/no/NA
10.	Are proper Analysis/Extraction stickers included on report?	yes/no/NA
11.	Is the unused space on the benchsheet crossed out?	yes/no/NA
12.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

K11038 - due 11/29

Final Approved by: BH Date: 12/11/09

DQREPORT

COLUMBIA ANALYTICAL SERVICES, INC.

180113

Work Order #: K11038 Method: 9030M

Analysis: Total Sulfides

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7
Conc. (mg/L)	0.0000	0.0490	0.4900	0.9800	1.4700	1.9600	2.4500
Absorbance	0.0000	0.0342	0.3587	0.6898	0.9996	1.2812	1.5407

(R) = 0.9985
Slope = 0.6358
Y Int. = 0.0286

Date Prep'd	Sample #	Dil. Factor	Absorb. @ 670 nm	Conc. from Curve (mg/L)	Actual Conc. (mg/L)	Initial Wt./Vol. (g) / (ml)	Final Vol. (ml)	A Tower mg/L (solution)	B Tower mg/L (solution)	A & B mg/L - mg/kg as rec'd	% Solid	mg/kg dry	mg/kg reported	mrl	mdl
11/16/2009	ICV	1	1.413	2.1782	2.1782	40	40	2.18		2.18				######	#VALUE!
11/16/2009	ICB	1	0.000	-0.0450	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/16/2009	CCB1	1	0.000	-0.0450	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/16/2009	CCV1	1	1.280	1.9688	1.9688	40	40	1.97		1.97				######	#VALUE!
11/16/2009	MB	1	0.001	-0.0437	<0.05	10	40	<0.05	-0.18	<0.050				######	#VALUE!
11/16/2009	LCS	1	0.903	1.3754	1.3754	10.004	40	5.50	-0.18	5.50				######	#VALUE!
11/16/2009	11038-1	5	0.359	0.5203	2.6016	8.275	40	12.58	-0.21	12.58	51.8	24.28	24.3	4.826	1.931
11/16/2009	11038-1D	5	0.314	0.4489	2.2446	8.231	40	10.91	-0.21	10.91	51.8	21.06	21.1	4.826	1.931
11/16/2009	11038-1S	100	0.699	1.0551	105.5113	8.144	40	518.23	-0.21	518.23	51.8	1000.44	1000	96.525	38.610
11/16/2009	11038-1SD	100	0.583	0.8722	87.2184	8.563	40	407.42	-0.21	407.42	51.8	786.52	787	96.525	38.610
11/16/2009	11038-2	5	0.433	0.6364	3.1820	7.994	40	15.92	-0.22	15.92	82.5	19.30	19.3	3.030	1.212
11/16/2009	11038-3	40	0.758	1.1468	45.8725	8.810	40	208.27	-0.19	208.27	34.1	610.78	611	58.651	23.460
11/16/2009	11038-4	5	0.371	0.5390	2.6952	8.135	40	13.25	-0.21	13.25	64.4	20.58	20.6	3.882	1.553
11/16/2009	11038-5	10	0.503	0.7456	7.4557	8.298	40	35.94	-0.21	35.94	46.9	76.63	76.6	10.661	4.264
11/16/2009	CCV2	1	1.279	1.9663	1.9663	40	40	1.97		1.97				######	#VALUE!
11/16/2009	CCB2	1	0.000	-0.0443	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/16/2009	11038-6	5	0.280	0.3950	1.9748	8.156	40	9.69	-0.21	9.69	45.9	21.10	21.1	5.447	2.179
11/16/2009	11038-7	2	0.521	0.7742	1.5484	8.229	40	7.53	-0.21	7.53	31.9	23.59	23.6	3.135	1.254
11/16/2009	11038-8	2	0.513	0.7621	1.5242	8.293	40	7.35	-0.21	7.35	35.9	20.48	20.5	2.786	1.114
11/16/2009	11038-9	5	0.349	0.5038	2.5191	8.309	40	12.13	-0.21	12.13	67.5	17.97	18.0	3.704	1.481
11/16/2009	CCV3	1	1.279	1.9660	1.9660	40	40	1.97		1.97				######	#VALUE!
11/16/2009	CCB3	1	0.000	-0.0445	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/16/2009	CCV4	1	1.276	1.9613	1.9613	40	40	1.96		1.96				######	#VALUE!
11/16/2009	CCV4	1	0.000	-0.0450	<0.05	40	40	<0.05		<0.050				######	#VALUE!
11/16/2009	CCV5	1	1.277	1.9633	1.9633	40	40	1.96		1.96				######	#VALUE!

CCV =2ml*39.2mg/l/40ml= 1.96mg/l %REC = 101, 101, 101, 100, 100

LCS =2ml*39.2mg/l/ 10.004g =7.84mg/kg %REC = 70

ICV = 2.25ml*39.2mg/L/40ml = 2.21mg/L %REC = 99

K11038-1MS = (1ml*3920mg/L/ 8.144g)/0.518 = 929mg/kg %REC = 105 K11038-1+1D X= 22.7mg/kg RPD= 14

K11038-1MSD = (1ml*3820mg/L/ 8.563g)/0.518 = 861mg/k %REC = ~~89~~ 86

STD ID# s2/2-2-G CONC. = 3920mg/L

Distilled by:	SLS	Date Distilled:	11/16/09 1040
Analyzed By:	SLS	Date Analyzed:	11/17/09 1530
Reviewed By:	DH	Date Reviewed:	11/19/09

TE 5/19/10

11-16-09

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #: K11038 Method: 9030M

Analysis: Total Sulfides

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L)	0.0000	0.0490	0.4900	0.9800	1.4700	1.9600	2.4500				(R) =	0.9985
Absorbance	0.0000	0.0342	0.3587	0.6898	0.9996	1.2812	1.5407				Slope =	0.6358
											Y Int. =	0.0286

Date Prep'd	Sample #	Dil. Factor	Absorb. @ 670 nm	Conc. from Curve (mg/L)	Actual Conc. (mg/L)	Initial Wt./Vol. (g) / (ml)	Final Vol. (ml)	A Tower mg/L (solution)	B Tower mg/L (solution)	A & B mg/L - mg/kg as rec'd	% Solid	mg/kg Dry	mg/kg reported	mrl	mdl
11/16/2009	CCB5	1	0.001	-0.0442	<0.05	40	40	<0.05		<0.050				#VALUE!	#VALUE!
11/16/2009														#VALUE!	#VALUE!
11/16/2009														#VALUE!	#VALUE!
11/16/2009														#VALUE!	#VALUE!
11/16/2009														#VALUE!	#VALUE!
11/16/2009														#VALUE!	#VALUE!
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11/16/2009														#VALUE!	#VALUE!
11/16/2009														#VALUE!	#VALUE!

Distilled by:	SLS	Date Distilled:	11/16/09
Analyzed By:	SLS	Date Analyzed:	11/17/09
Reviewed By:	BH	Date Reviewed:	12/1/09

11-16-09

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order # K11038

Analysis: Total Sulfide

Method: 9030M

Prep Date : 11/16/2009

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7
Conc. (mg/L)	0.0000	0.0490	0.4900	0.9800	1.4700	1.9600	2.4500
Absorbance	0.0000	0.0342	0.3587	0.6898	0.9996	1.2812	1.5407

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of A tower @ 670 nm	Abs of B tower @ 670 nm	% Solids
ICV	40	1	1.4134		
ICB	40	1	0.000		
CCB	40	1	0.000		
CCV	40	1	1.2803		
MB	10.029	1	0.0008	0.0006	
LCS	10.004	1	0.9030	0.0007	
11038-1	8.275	5	0.3594	0.0012	51.8
11038-1D	8.231	5	0.3140	0.0009	51.8
11038-1S	8.144	100	0.6994	0.0011	51.8
11038-1SD	8.563	100	0.5831	0.0006	51.8
11038-2	7.994	5	0.4332	0.0005	82.5
11038-3	8.810	40	0.7577	0.0013	34.1
11038-4	8.135	5	0.3713	0.0008	64.4
11038-5	8.298	10	0.5026	0.0004	46.9
CCV2	40	1	1.2787		
CCB2	40	1	0.0004		
11038-6	8.156	5	0.2797	0.0013	45.9
11038-7	8.229	2	0.5208	0.0011	31.9
11038-8	8.293	2	0.5131	0.0003	35.9
11038-9	8.309	5	0.3489	0.0006	67.5
CCV3	40	1	1.2785		
CCB3	40	1	0.0003		
CCV4	40	1	1.2755		
CCV4	40	1	0.000		
CCV5	40	1	1.2768		
CCB5	40	1	0.0005		

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of A tower @ 670 nm	Abs of B tower @ 670 nm	% Solids

SLS 11/16/09

B 11/17/11/09

Date : 11/17/2009 Time : 15:53:04

Concentration Results

Date: 11/17/2009 Time: 3:36:12 PM
Instrument: PerkinElmer Lambda 25 Serial No: 501S08110503
Method: 11-17-9
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 11-17-9.RCO
Autozero performed: 11/17/2009 3:33:34 PM
Analyst: cfs

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
670.0	0.0	ICV	1.4134	1.0000	2.1782	mg/l	
670.0	0.0	ICB	-0.000	1.0000	-0.045*	mg/l	
670.0	0.0	CCB1	-0.000	1.0000	-0.045*	mg/l	
670.0	0.0	CCV1	1.2803	1.0000	1.9688	mg/l	
670.0	0.0	MB	0.0008	1.0000	-0.043	mg/l	
670.0	0.0	LCS	0.9030	1.0000	1.3754	mg/l	
670.0	0.0	5x11038-1	0.3594	1.0000	0.5204	mg/l	
670.0	0.0	5x11038-1D	0.3140	1.0000	0.4489	mg/l	
670.0	0.0	100x11038-1S	0.6994	1.0000	1.0552	mg/l	
670.0	0.0	100x11038-1SD	0.5831	1.0000	0.8723	mg/l	
670.0	0.0	5x11038-2	0.4332	1.0000	0.6364	mg/l	SLS 11/17/09
670.0	0.0	40x11038-3	0.7577	1.0000	1.1468	mg/l	
670.0	0.0	5x11038-4	0.3713	1.0000	0.5391	mg/l	
670.0	0.0	10x11038-5	0.5026	1.0000	0.7456	mg/l	
670.0	0.0	CCV2	1.2787	1.0000	1.9662	mg/l	
670.0	0.0	CCB2	0.0004	1.0000	-0.044	mg/l	
670.0	0.0	5x 11038-6	0.2797	1.0000	0.3950	mg/l	
670.0	0.0	2x 11038-7	0.5208	1.0000	0.7742	mg/l	
670.0	0.0	2x 11038-8	0.5131	1.0000	0.7621	mg/l	
670.0	0.0	5x 11038-9	0.3489	1.0000	0.5039	mg/l	BHIX 11/17
670.0	0.0	CCV3	1.2785	1.0000	1.9660	mg/l	
670.0	0.0	CCB3	0.0003	1.0000	-0.044	mg/l	
670.0	0.0	MBb	0.0006	1.0000	-0.043	mg/l	
670.0	0.0	LCSb	0.0007	1.0000	-0.043	mg/l	
670.0	0.0	11038-1b	0.0012	1.0000	-0.043	mg/l	
670.0	0.0	11038-1Db	0.0009	1.0000	-0.043	mg/l	
670.0	0.0	11038-1Sb	0.0011	1.0000	-0.043	mg/l	
670.0	0.0	11038-1SDb	0.0006	1.0000	-0.043	mg/l	
670.0	0.0	11038-2b	0.0005	1.0000	-0.044	mg/l	
670.0	0.0	11038-3b	0.0013	1.0000	-0.042	mg/l	
670.0	0.0	11038-4b	0.0008	1.0000	-0.043	mg/l	
670.0	0.0	11038-5b	0.0004	1.0000	-0.044	mg/l	
670.0	0.0	CCV4	1.2755	1.0000	1.9612	mg/l	
670.0	0.0	CCB4	-0.000	1.0000	-0.045*	mg/l	
670.0	0.0	11038-6b	0.0013	1.0000	-0.042	mg/l	
670.0	0.0	11038-7b	0.0011	1.0000	-0.043	mg/l	
670.0	0.0	11038-8b	0.0003	1.0000	-0.044	mg/l	
670.0	0.0	11038-9b	0.0006	1.0000	-0.044	mg/l	
670.0	0.0	CCV5	1.2768	1.0000	1.9634	mg/l	
670.0	0.0	CCB5	0.0005	1.0000	-0.044	mg/l	

Date : 11/17/2009 Time : 15:35:55 3920

180113

CALIBRATION

Date: 11/17/2009 Time: 3:33:35 PM
Instrument: PerkinElmer Lambda 25 Serial No: 501S08110503
Method: 11-17-9
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst: cfs

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
670.0	0.0	11-17-9.A01	0.0000	mg/l	-0.000	
670.0	0.0	11-17-9.A02	0.0490	mg/l	0.0342	
670.0	0.0	11-17-9.A03	0.4900	mg/l	0.3587	
670.0	0.0	11-17-9.A04	0.9800	mg/l	0.6898	SLS 11/17/09
670.0	0.0	11-17-9.A05	1.4700	mg/l	0.9996	
670.0	0.0	11-17-9.A06	1.9600	mg/l	1.2812	
670.0	0.0	11-17-9.A07	2.4500	mg/l	1.5407	

Equation: y = 2.854311e-02 + 6.357911e-01 * x

Residual error: 0.036641
Correlation coefficient: 0.998462

B 11/12/11/09

11/29

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: K11038

Analysis: 9030/ 9030M/ AVS/ PSEP

Date Prepared	Sample Name / Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
11/16/09	MB1	10.029	40			
	LCS1	10.004				
	K11038-1	8.275				
	-1d	8.231				
	-1s	8.144				
	-1sd	8.563				
	-2	7.994				
	-3	8.180				
	-4	8.135				
	-5	8.298				
	-6	8.156				
	-7	8.229				
	-8	8.293				
	-9	8.309				

Prepared By:	SLS	11/16/09 1040
Analyzes By:	SLS	11/17/09 1530
Reviewed By:	BH	12/1/09

S2EXTBNCH

Work Request # (Original K9935) K10896 ~~K11036~~ K11121

Tier: ✓ II III III

Date Analyzed: 11-18-09

Analyst: A Chatterjee

Analysis: TKN ASTM D1426-93B

180367

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no/NA
a.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
b.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
c.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
d.	Are results for methods blanks all ND?	yes/no/NA
e.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
f.	Are all exceptions explained?	yes/no/NA
6.	Are all service requests that apply attached?	yes/no/NA
7.	Are all samples labelled correctly?	yes/no/NA
8.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)	yes/no/NA
9.	Are detection limits and units reported correctly?	yes/no/NA
10.	Are proper Analysis/Extraction stickers included on report?	yes/no/NA
11.	Is the unused space on the benchsheet crossed out?	yes/no/NA
12.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

K10896-1 High RPD reanalyzing

Batch QC OK w/ P.C's

Final Approved by: BH Date: 11/20/09

DQREPORT

COLUMBIA ANALYTICAL SERVICES, INC.

180367

Work Order #: K9935, K11038, K11121

Analysis Method # ASTM D1426-93B

Analysis: TKN (Total Kjeldahl Nitrogen)

Prep. Method # ASTM D3590-89B-21.1

Date Prepared	Sample Name Lab Code	Dil.	Initial Weight g	Final Vol. ml	mg/L (in solution)	mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	mg/kg Reported Conc.	calculated MRL	calculated MDL
11/18/2009	MB	1	50	50	0.103	<0.2					
11/18/2009	LCS-SOIL	1	0.304	50	8.9100	1470					
11/18/2009	K0909935-001	1	0.333	50	39.8000	5980					
11/18/2009	K0909935-002	1	0.338	50	50.5000	7470					
11/18/2009	~~K0909935-003~~	~~1~~	~~0.334~~	~~50~~	~~17.6~~	~~2640~~				NR	
11/18/2009	K0909935-004	1	0.306	50	26.8	4380					
11/18/2009	K0909935-005	1	0.345	50	35.1000	5090					
11/18/2009	K0909935-006	1	0.312	50	33.5000	5370					
11/18/2009	K0910896-001	5	0.311	50	13.9	11173.633	13.2	84648.7	84600 NR	1515.151515	**189.393939**
11/18/2009	~~K0910896-001d~~	~~5~~	~~0.315~~	~~50~~	~~11.3~~	~~8968.254~~	~~13.2~~	~~67941.3~~	~~67900~~ NR	1515.151515	**189.393939**
11/18/2009	~~K0910896-001ms~~	~~5~~	~~0.312~~	~~50~~	~~16.7~~	~~13381.410~~	~~13.2~~	~~101374~~	~~101000~~ NR	1515.151515	**189.393939**
11/18/2009	~~0910896-001msd~~	~~5~~	~~0.312~~	~~50~~	~~23.2~~	~~18589.744~~	~~13.2~~	~~140831.4~~	~~140000~~ NR	1515.151515	**189.393939**
11/18/2009	K0911038-001	1	0.302	50	7.0800	1172.185	51.8	2263	2260	77.22007722	**9.65250965**
11/18/2009	K0911038-002	1	0.308	50	2.7600	448.052	82.5	543.1	543	48.48484848	**6.06060606**
11/18/2009	K0911038-003	1	0.319	50	10.9	1708.464	34.1	5010.2	5010	117.3020528	**14.6627566**
11/18/2009	K0911038-004	1	0.318	50	4.88	767.296	64.4	1191.5	1190	62.11180124	**7.76397516**
11/18/2009	K0911038-005	1	0.302	50	7.0300	1163.907	46.9	2481.7	2480	85.28784648	**10.6609808**
11/18/2009	K0911038-006	1	0.312	50	7.87	1261.218	45.9	2747.8	2750	87.1459695	**10.8932462**
11/18/2009	K0911038-007	1	0.314	50	9.58	1525.478	31.9	4782.1	4780	125.3918495	**15.6739812**
11/18/2009	K0911038-008	1	0.319	50	9.03	1415.361	35.9	3942.5	3940	111.4206128	**13.9275766**
11/18/2009	K0911038-009	1	0.318	50	4.06	638.36	67.5	946	946	59.25925926	**7.40740741**

DIGESTION SOLUTION ID#= NH3/3-38-I

APG: 542 Lot#:DO64-542 TV=1220mg/kg ID#PO3/2-26-P % Rec.=120,122

K10896-1ms 1 mL x 1,000 ppm / 0.312g.= 3205/.132=24300

$\bar{x}$ = 76300 RPD =22 NR %REC=67

K10896-1msd 2 mL x 1,000 ppm / 0.312g.= 6410/.132=48600

%REC=114

K10896-1 High RPD reanalyzing 11-20-09

K9935-3 Sample looked odd after digestion reanalyzing 11-20-09

		date	time
Prepared By: H Flowers	Date:	11-18-09	11:05
Analyzed By: A Cheatham	Date:	11-19-09	9:50
Reviewed By: BH	Date:	11/20/09	

COLUMBIA ANALYTICAL SERVICES, INC.

180367

Work Order #.:

Analysis: TKN (Total Kjeldahl Nitrogen)

Analysis Method # ASTM D1426-93B

Prep. Method # ASTM D3590-89B-21.1Mod

Date Prepared	Sample Name Lab Code	Dil.	Initial Weight g	Final Vol. ml	mg/L (in solution)	mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	mg/kg Reported Conc.	calculated MRL	calculated MDL
11/18/2009	K0911121-001	1	0.303	50	9.16	1511.551	37.4	4042	~~4010~~ ~~4042~~ ARE	106.951872	**13.368984**
11/18/2009	K0911121-002	1	0.309	50	9.7800	1582.524	34.8	4547	~~4550~~ ~~4547~~ ARE	114.942529	**14.3678161**
11/18/2009	K0911121-003	1	0.304	50	6.3400	1042.763	83.1	1254.8	1250 ~~1255~~ ARE	48.1347774	**6.01684717**
11/18/2009	K0911121-004	1	0.316	50	9.1200	1443.038	32.8	4399.5	4400	121.95122	**15.2439024**
11/18/2009	MB	1	50	50	0.119	<0.2					
11/18/2009	LCS-SOIL	1	0.307	50	9.12	1490					
11/18/2009	K0911121-005	1	0.308	50	11.0000	1785.714	44.0	4058	4060	90.9090909	**11.3636364**
11/18/2009	K0911121-006	1	0.315	50	9.8700	1566.667	29.0	5402	5400	137.931034	**17.2413793**
11/18/2009	K0911121-007	1	0.313	50	9.16	1463.259	32.0	4572.7	4570	125	**15.625**
11/18/2009	K0911121-008	1	0.312	50	12.1	1939.103	39.4	4921.6	4920	101.522843	**12.6903553**
11/18/2009	K0911121-009	1	0.304	50	10.5	1726.974	37.8	4569	4570	105.820106	**13.2275132**
11/18/2009	K0911121-010	5	0.305	50	15.0	1229.508	18.3	6718.6	6720	1092.89617	**136.612022**
11/18/2009	K0911121-010d	5	0.308	50	1.6200	1314.935	18.3	7185	7190	1092.89617	**136.612022**
11/18/2009	K0911121-010ms	5	0.301	50	6.2500	5191.030	18.3	28366.3	28400	1092.89617	**136.612022**
11/18/2009	0911121-010msd	5	0.307	50	10.8	8794.788	18.3	48059.0	48100	1092.89617	**136.612022**
11/18/2009	K0911121-011	1	0.321	50	12.0	1869.159	33.3	5613.1	5610	120.12012	**15.015015**
11/18/2009	K0911121-012	1	0.313	50	3.6300	579.872	73.1	793.3	793	54.7195622	**6.83994528**
11/18/2009	K0911121-013	1	0.314	50	2.30	366.242	66.4	551.6	552	60.2409639	**7.53012048**
11/18/2009	K0911121-014	1	0.324	50	10.4	1604.938	74.7	2148.5	2150	53.5475234	**6.69344043**
11/18/2009	K0911121-015	1	0.315	50	7.62	1209.524	53.5	2260.8	2260	74.7663551	**9.34579439**

K11121-10ms 1 mL x 1,000 ppm / 0.301g.= 3322/.183=18200

$\bar{x}$ = 6960 RPD =7 %REC=119

K11121-10msd 2 mL x 1,000 ppm / 0.307g.= 6515/.183=35600

%REC=116

		date	time
Prepared By: H Chuan	Date:	11-18-09	11:05
Analyzed By: H Chuan	Date:	11-19-09	9:50
Reviewed By: MH	Date:	11/20/09	

SS 11/20/09

ysis : Nitrogen, Total Kjeldahl

Service Request Number: 9935 10896 11038 11121

ument: Ren

Method: ASTM D1426-93B
EPA 351.4 Selective Ion Electrode

ample umber	Initial mv Reading	Initial Spike Level, mg/L	Known Addition Spike, mL	Known Addition Spike, mg/L	Sample Aliquot, mL	Instrument Sample Aliquot, mL	Instrument Final Vol., mL	Reading mg/L	mg/L in Sample Reported
ICV	30.7	–	0.6	1000	50	50	50	12.2	12.2
ICB	145.3	0.1	0.5	10	50	50	50	0.127	<0.05
CV-1	35.4	–	0.5	1000	50	50	50	10.4	10.4
CB-1	146.0	0.1	0.5	10	50	50	50	0.125	<0.05
MB	150.2	–	0.5	10	25	25	25	0.103	<0.2
SO1	39.2	–	0.5	1000	25	25	25	8.91	8.91
9935-1	6.8	–	2.5	1000	25	25	25	39.8	39.8
-2	4.1	–	5.0	1000	25	25	25	50.5	50.5
-3	32.4	–	0.5	1000	25	25	25	17.6	17.6
-4	21.3	–	2.5	1000	25	25	25	26.8	26.8
-5	13.3	–	2.5	1000	25	25	25	35.1	35.1
-6	36.0	–	0.5	1000	25	25	25	33.5	33.5
896-1	44.5	–	0.5	1000	① ~~2~~5	25	25	13.9	13.9
-1d	53.4	–	0.5	1000	5	25	25	11.3	11.3
CV-2	56.5	–	0.5	1000	50	50	50	10.0	10.0
CB-2	143.3	0.1	0.5	10	50	50	50	0.141	<0.05
-1ms	39.2	–	0.5	1000	5	25	25	16.7	16.7
-1msd	27.4	–	0.5	1000	5	25	25	23.2	23.2
1038-1	38.6	–	0.5	1000	25	25	25	7.08	7.08
-2	73.5	–	2.5	1000	25	25	25	2.76	2.76
-3	44.3	–	0.5	1000	25	25	25	10.9	10.9
-4	63.3	–	0.5	1000	25	25	25	4.88	4.88

5/25

1 ppm = 153.5 1 ppm = 94.4 10 ppm = 32.8 100 ppm = -26.4 Slope = -59.21

% Eff = 100.1

rue Value = 12 ppm (0.6mls x 1000ppm / 50 mls) NH3/3- 83.6 % Rec = 102

True Value = 10 ppm (0.5mls x 1000ppm / 50 mls) NH3/3- 22.A % Rec = 104, 100, 101, 100, 99, 99

aOH ID#: NH3/3- 61.JI 10,000 ppm ID NH3/3- 5.L 1,000 ppm ID #: NH3/3- 7.S

DTA buf. NH3/3- 69.W

ment

st: A Chatterjee Date: 11-19-09 0950

ewer: BH Date: 11/20/09

TKNMETER.BCH

① AC wrong # 11-19-09

Columbia Analytical Services, Inc.

Service Request #:

Analysis: NH3/ TKN Instrument: Ren

Sample Number	Initial mv Reading	Initial Spike Level, mg/L	Known Addition Spike, mL	Known Addition Spike, mg/L	Sample Aliquot, ml	Instrument Sample Aliquot, mL	Instrument Final Vol., mL	Reading mg/L	mg/L in Sample Reported
11038-5	64.9	-	2.5	100	25	25	25	7.03	7.03
-6	42.1	-	0.5	1000	25	25	25	7.87	7.87
-7	47.4	-	0.5	1000	25	25	25	9.58	9.58
-8	49.3	-	0.5	1000	25	25	25	9.03	9.03
CCV-3	39.4	--	0.5	1000	50	50	50	10.1	10.1
CCB-3	147.4	0.1	0.5	10	50	50	50	0.125	<0.05
-9	41.7	-	0.5	1000	25	25	25	4.06	4.06
L11121-1	25.2	-	0.5	1000	25	25	25	9.16	9.16
-2	19.4	-	2.5	1000	25	25	25	9.78	9.78
-3	18.2	-	2.5	1000	25	25	25	6.34	6.34
-4	11.2	-	2.5	1000	25	25	25	9.12	9.12
MB	154.2	-	0.5	10	25	25	25	0.119	<0.2
LCS 5091	39.2	-	0.5	1000	25	25	25	9.12	9.12
-5	28.7	-	0.5	1000	25	25	25	11.0	11.0
-6	32.5	-	0.5	1000	25	25	25	9.87	9.87
-7	36.2	-	0.5	1000	25	25	25	9.16	(1) ~~9.66~~ 9.16
CCV-4	41.9	--	0.5	1000	50	50	50	10.0	10.0
CCB-4	151.6	0.1	0.5	10	50	50	50	0.138	<0.05
-8	16.6	-	2.5	1000	25	25	25	12.1	12.1
-9	23.6	-	2.5	1000	25	25	25	10.5	10.5
-10	92.9	-	0.5	100	(1) ~~25~~	25	25	1.50	1.50
-10d	92.3	-	0.5	100	5	25	25	1.62	1.62
-10MS	59.8	-	0.5	1000	5	25	25	6.25	6.25
-10MSD	46.8	-	0.5	1000	5	25	25	10.8	10.8

5/25

Comments:

Analyst: A Chatterjee Date: 11-19-09 0950

Reviewer: BH Date: 11/20/09

(1) T.E. 11-19-09 AC

TKNMETER.BCH

Columbia Analytical Services, Inc.

Service Request #:

Analysis: NH3/TKN Instrument: Ren

Sample Number	Initial mv Reading	Initial Spike Level, mg/L	Known Addition Spike, mL	Known Addition Spike, mg/L	Sample Aliquot, ml	Instrument Sample Aliquot, mL	Instrument Final Vol., mL	Reading mg/L	mg/L in Sample Reported
K11121-11	30.6	—	0.5	1000	25	25	25	12.0	12.0
-12	61.5	—	0.5	1000	25	25	25	3.43	3.43
-13	77.9	-	2.5	100	25	25	25	2.30	2.30
-14	45.2	—	0.5	1000	25	25	25	10.4	10.4
CCV-3 5	46.1	--	0.5	1000	50	50	50	9.94	9.94
CCB-3 5	155.3	0.1	0.5	10	50	50	50	0.129	<0.05
-15	36.3	-	0.5	1000	25	25	25	7.62	7.62
CCV-4	47.2	—	0.5	1000	50	50	50	9.94	9.94
CCB-4	160.2	0.1	0.5	10	50	50	50	0.128	<0.05
CCV-4		--	0.5	1000	50	50	50		
CCB-4		0.1	0.5	10	50	50	50		

Comments

Analyst: A Cheatley Date: 11-19-09 0950

Reviewer: GH Date: 11/20/09

Dilution # AC 11-19-09

TKNMETER.BCH

Service Request # _____ Method EPA 351.4 / 351.4M

Analysis: TKN (Total Kjeldahl Nitrogen)

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Final Vol. (ml)	mg/L (in solution)	Blank Corr.	Net mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
11-18-09	MB	50	50						
	LCS	0.304	50						
	K9935-1	0.333	50						
	-2	0.338	50						
	-3	0.334	50						
	-4	0.306	50						
	-5	0.343	50						
	-6	0.312	50						
	K10896-1	0.311	50					13.2	
	-1d	0.315	50						
	-1ms	0.312	50						
	-1msd	0.312	50						
	K11038-1	0.302	50					51.8	
	-2	0.308	50					82.5	
	-3	0.319	50					34.1	
	-4	0.318	50					64.4	
	-5	0.302	50					46.9	
	-6	0.312	50					45.9	
	-7	0.314	50					31.9	
	-8	0.319	50					35.9	

DIGESTION SOLUTION ID#= NH3/3.38-I

APG 525 Lot# P169-525 ID# NH3/3 51-N TV= 15.2 mg/L % Rec = ____

K10896-1 MS= ~~0.5~~ 1.0 mL x 1,000 ppm / 0.312g. = 3205 / .132 = 24300 % REC = 67

x= 76300 RPD =

K10896-1 MSD= ~~1.0~~ 2.0 mL x 1,000 ppm / 0.312g. = 6410 / .132 = 48600 % REC = 114

Comments

LCS-S071 APG542 Lot# D064-542 ID# PO3/2.26-P TV: 1220 mg/kg % REC -

Prepared By A Cheatley	Date Prepared 11-18-09 1105
Analyzed By A Cheatley	Date Analyzed 11-19-09 0950
Reviewed By BH	Date Reviewed 11/20/09

① AC 11-18-09 wrong amount of spk

Tknext1

rvice Request #: _____ Method: EPA 351.4 / 351.4M

Analysis: TKN (Total Kjeldahl Nitrogen)

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Final Vol. (ml)	mg/L (in solution)	Blank Corr.	Net mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
13 09	K11038-9	0.318	50					67.5	
	K11121-1	0.303	50					37.4	
	-2	0.309	50					34.8	
	-3	0.304	50					83.1	
	-4	0.316	50					32.8	
	MB	50	50						
	LCS soil	0.307	50						
	K11121-5	0.308	50					44.0	
	-6	0.315	50					29.0	
	-7	0.313	50					32.0	
	-8	0.312	50					39.4	
	-9	0.304	50					37.8	
	-10	0.305	50					18.3	
	-10d	0.308	50						
	-10ms	0.301	50						
	-10msd	0.307	50						
	-11	0.321	50					33.3	
	-12	0.313	50					73.1	
	-13	0.314	50					66.4	
	-14	0.324	50					74.7	
	-15	0.315	50					53.5	
			50						
			50						
			50						
			50						
			50						
			50						

K11121 10 MS= ~~0.5~~ 1.0 mL x 1,000 ppm / 0.301g. = 3322 / .183 = 18200 % REC = 119

x̄ = 4960 RPD = 7

K11121 MSD= ~~1.0~~ 2.0 mL x 1,000 ppm / 0.307g. = 6515 / .183 = 35600 % REC = 116

pared By: A Chealey	Date Prepared: 11-18-09	1105
lyzed By: A Chealey	Date Analyzed: 11-19-09	0950
iewed By: BH	Date Reviewed: 11/20/09	

⊙ wrong amount of spk 11-18-09

Tknext1

Metals

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Windward Environmental, LLC
Project Name: Passaic RI/FS Sediment
Project No.: 09.58.02.41

Service Request: K0911038

Sample Name:	Lab Code:
LPRT01C	K0911038-001
LPRT01CD	K0911038-001D
LPRT01CS	K0911038-001S
LPRT09H	K0911038-002
LPRT02C	K0911038-003
LPRT01E	K0911038-004
LPRT06C	K0911038-005
LPRT06C-FD	K0911038-006
LPRT02D	K0911038-007
LPRT03C	K0911038-008
LPRT09A	K0911038-009
Method Blank	K0911038-MB

Comments:

Approved By: _____ **Date:** 12/5/09

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT01C **Lab Code:** K0911038-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00009	1.0	11/23/09	11/24/09	0.00080		
Copper	6010B	0.0006	1.0	11/23/09	11/24/09	0.0399		
Lead	6010B	0.0010	1.0	11/23/09	11/24/09	0.0443		
Nickel	6010B	0.0007	1.0	11/23/09	11/24/09	0.0082		
Silver	6010B	0.00038	1.0	11/23/09	11/24/09	0.00038	U	
Zinc	6010B	0.0006	1.0	11/23/09	11/24/09	2.0300		

% Solids: 51.8

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/09/09
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/09
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT09H **Lab Code:** K0911038-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00006	1.0	11/23/09	11/24/09	0.00057		
Copper	6010B	0.0004	1.0	11/23/09	11/24/09	0.0927		
Lead	6010B	0.0006	1.0	11/23/09	11/24/09	0.0731		
Nickel	6010B	0.0004	1.0	11/23/09	11/24/09	0.0155		
Silver	6010B	0.00024	1.0	11/23/09	11/24/09	0.00024	U	
Zinc	6010B	0.0081	20.0	11/23/09	11/24/09	19.1		

% Solids: 82.5

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT02C **Lab Code:** K0911038-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00014	1.0	11/23/09	11/24/09	0.00433		
Copper	6010B	0.0010	1.0	11/23/09	11/24/09	0.186		
Lead	6010B	0.0015	1.0	11/23/09	11/24/09	0.1782		
Nickel	6010B	0.0011	1.0	11/23/09	11/24/09	0.0277		
Silver	6010B	0.00057	1.0	11/23/09	11/24/09	0.00057	U	
Zinc	6010B	0.0191	20.0	11/23/09	11/30/09	24.7		

% Solids: 34.1

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT01E **Lab Code:** K0911038-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00007	1.0	11/23/09	11/24/09	0.00043		
Copper	6010B	0.0005	1.0	11/23/09	11/24/09	0.0743		
Lead	6010B	0.0007	1.0	11/23/09	11/24/09	0.0370		
Nickel	6010B	0.0005	1.0	11/23/09	11/24/09	0.0069		
Silver	6010B	0.00028	1.0	11/23/09	11/24/09	0.00028	U	
Zinc	6010B	0.0094	20.0	11/23/09	11/30/09	4.7300		

% Solids: 64.4

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/09/09
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/09
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT06C **Lab Code:** K0911038-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00010	1.0	11/23/09	11/24/09	0.00124		
Copper	6010B	0.0007	1.0	11/23/09	11/24/09	0.0645		
Lead	6010B	0.0011	1.0	11/23/09	11/24/09	0.0411		
Nickel	6010B	0.0007	1.0	11/23/09	11/24/09	0.1467		
Silver	6010B	0.00040	1.0	11/23/09	11/24/09	0.00040	U	
Zinc	6010B	0.0007	1.0	11/23/09	11/24/09	5.6100		

% Solids: 46.9

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT06C-FD **Lab Code:** K0911038-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00010	1.0	11/23/09	11/24/09	0.00072		
Copper	6010B	0.0007	1.0	11/23/09	11/24/09	0.0256		
Lead	6010B	0.0011	1.0	11/23/09	11/24/09	0.0273		
Nickel	6010B	0.0008	1.0	11/23/09	11/24/09	0.0077		
Silver	6010B	0.00043	1.0	11/23/09	11/24/09	0.00043	U	
Zinc	6010B	0.0007	1.0	11/23/09	11/24/09	4.5200		

% Solids: 45.9

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/10/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT02D **Lab Code:** K0911038-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00016	1.0	11/23/09	11/24/09	0.00077		
Copper	6010B	0.0011	1.0	11/23/09	11/24/09	0.0920		
Lead	6010B	0.0017	1.0	11/23/09	11/24/09	0.0540		
Nickel	6010B	0.0012	1.0	11/23/09	11/24/09	0.0104		
Silver	6010B	0.00064	1.0	11/23/09	11/24/09	0.00064	U	
Zinc	6010B	0.0212	20.0	11/23/09	11/30/09	11.3		

% Solids: 31.9

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/10/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT03C **Lab Code:** K0911038-008

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00014	1.0	11/23/09	11/24/09	0.00054		
Copper	6010B	0.0009	1.0	11/23/09	11/24/09	0.0229		
Lead	6010B	0.0015	1.0	11/23/09	11/24/09	0.0239		
Nickel	6010B	0.0010	1.0	11/23/09	11/24/09	0.0067		
Silver	6010B	0.00056	1.0	11/23/09	11/24/09	0.00056	U	
Zinc	6010B	0.0009	1.0	11/23/09	11/24/09	6.6200		

% Solids: 35.9

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project No.:	09.58.02.41	**Date Collected:**	11/10/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Matrix:	SEDIMENT	**Units:**	umol/g
		Basis:	DRY

Sample Name: LPRT09A **Lab Code:** K0911038-009

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00007	1.0	11/23/09	11/24/09	0.00119		
Copper	6010B	0.0005	1.0	11/23/09	11/24/09	0.107		
Lead	6010B	0.0008	1.0	11/23/09	11/24/09	0.0884		
Nickel	6010B	0.0005	1.0	11/23/09	11/24/09	0.0124		
Silver	6010B	0.00028	1.0	11/23/09	11/24/09	0.00028	U	
Zinc	6010B	0.0094	20.0	11/23/09	11/30/09	5.8900		

% Solids: 67.5

Comments:

Simultaneously Extractable Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Windward Environmental, LLC
Service Request: K0911038
Project No.: 09.58.02.41
Date Collected:
Project Name: Passaic RI/FS Sediment
Date Received:
Matrix: SEDIMENT
Units: umol/g
Basis: DRY

Sample Name: Method Blank
Lab Code: K0911038-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Cadmium	6010B	0.00004	1.0	11/23/09	11/24/09	0.00004	U	
Copper	6010B	0.0003	1.0	11/23/09	11/24/09	0.0003	U	
Lead	6010B	0.0005	1.0	11/23/09	11/24/09	0.0005	U	
Nickel	6010B	0.0003	1.0	11/23/09	11/24/09	0.0003	U	
Silver	6010B	0.00018	1.0	11/23/09	11/24/09	0.00018	U	
Zinc	6010B	0.0003	1.0	11/23/09	11/24/09	0.0003	U	

% Solids: 100.0

Comments:

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS Mixed

Concentration Units: umol/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium	11.10	11.21	101	2.22	2.24	101	2.28	103	6010B
Copper	9.83	10.08	103	3.93	3.96	101	4.00	102	6010B
Lead	12.10	12.73	105	1.21	1.19	98	1.19	98	6010B
Nickel	21.30	21.51	101	4.26	4.27	100	4.31	101	6010B
Silver	5.79	6.00	104	2.32	2.33	100	2.30	99	6010B
Zinc	19.10	20.50	107	3.82	3.81	100	3.87	101	6010B

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures **CCV Source:** CAS Mixed

Concentration Units: umol/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium				2.22	2.29	103	2.30	104	6010B
Copper				3.93	4.01	102	3.99	102	6010B
Lead				1.21	1.19	98	1.19	98	6010B
Nickel				4.26	4.31	101	4.33	102	6010B
Silver				2.32	2.27	98	2.28	98	6010B
Zinc				3.82	3.92	103	3.90	102	6010B

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures **CCV Source:** CAS Mixed

Concentration Units: umol/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium				2.22	2.29	103	2.29	103	6010B
Copper				3.93	3.98	101	3.95	101	6010B
Lead				1.21	1.19	98	1.17	97	6010B
Nickel				4.26	4.30	101	4.29	101	6010B
Silver				2.32	2.24	97	2.19	94	6010B
Zinc				3.82	3.87	101	3.82	100	6010B

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS Mixed

Concentration Units: umol/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium				2.22	2.32	105	2.31	104	6010B
Copper				3.93	3.97	101	3.96	101	6010B
Lead				1.21	1.19	98	1.20	99	6010B
Nickel				4.26	4.34	102	4.35	102	6010B
Silver				2.32	2.20	95	2.22	96	6010B
Zinc				3.82	3.92	103	3.96	104	6010B

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS Mixed

Concentration Units: umol/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium				2.22	2.30	104			6010B
Copper				3.93	3.99	102			6010B
Lead				1.21	1.17	97			6010B
Nickel				4.26	4.29	101			6010B
Silver				2.32	2.22	96			6010B
Zinc				3.82	3.90	102			6010B

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures **CCV Source:** CAS Mixed

Concentration Units: umol/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Zinc	19.10	20.07	105	3.82	3.86	101	3.82	100	6010B

Simultaneously Extractable Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS Mixed

Concentration Units: umol/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Zinc				3.82	3.87	101	3.87	101	6010B

Simultaneously Extractable Metals
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Cadmium				0.0045	0.0038	84		
Copper				0.0300	0.0428	143		
Lead				0.0480	0.0499	104		
Nickel				0.0320	0.0436	136		
Silver				0.0180	0.0236	131		
Zinc				0.0300	0.0300	100		

Simultaneously Extractable Metals
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Zinc				0.0300	0.0304	101		

Simultaneously Extractable Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Cadmium	0.0044	U	0.0044	U	0.0044	U	0.0044	U	6010B
Copper	0.030	U	0.030	U	0.030	U	0.030	U	6010B
Lead	0.048	U	0.048	U	0.048	U	0.048	U	6010B
Nickel	0.033	U	0.033	U	0.033	U	0.033	U	6010B
Silver	0.018	U	0.018	U	0.018	U	0.018	U	6010B
Zinc	0.030	U	0.030	U	0.030	U	0.030	U	6010B

Simultaneously Extractable Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Cadmium			0.0044	U	0.0044	U	0.0044	U	6010B
Copper			0.030	U	0.030	U	0.030	U	6010B
Lead			0.048	U	0.048	U	0.048	U	6010B
Nickel			0.033	U	0.033	U	0.033	U	6010B
Silver			0.018	U	0.018	U	0.018	U	6010B
Zinc			0.030	U	0.030	U	0.030	U	6010B

Simultaneously Extractable Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Cadmium			0.0044	U	0.0044	U	0.0044	U	6010B
Copper			0.030	U	0.030	U	0.030	U	6010B
Lead			0.048	U	0.048	U	0.048	U	6010B
Nickel			0.033	U	0.033	U	0.033	U	6010B
Silver			0.018	U	0.018	U	0.018	U	6010B
Zinc			0.030	U	0.030	U	0.030	U	6010B

Simultaneously Extractable Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Zinc	0.030	U	0.030	U	0.030	U	0.030	U	6010B

Simultaneously Extractable Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: umol/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Zinc			0.030	U					6010B

Simultaneously Extractable Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Concentration Units: umol/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Cadmium		9	0	8	89			
Copper		8	0	7	91			
Lead		5	0	5	105			
Nickel		17	0	15	90			
Silver		9	0	9	97			
Zinc		15	0	15	99			

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

Simultaneouslv Extractable Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Concentration Units: umol/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Zinc		15	0	15	99			

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

Columbia Analytical Services

Simultaneously Extractable Metals

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SPIKE SAMPLE RECOVERY

Client:	Windward Environmental, LLC	Service Request:	K0911038
Project No.:	09.58.02.41	Units:	UMOL/G
Project Name:	Passaic RI/FS Sediment	Basis:	DRY
Matrix:	SEDIMENT	% Solids:	51.8

Sample Name: LPRT01CS Lab Code: K0911038-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Cadmium	75 - 125	0.22376		0.00080		0.23476	95		6010B
Copper	75 - 125	0.2481		0.0399		0.2079	100		6010B
Lead	75 - 125	0.3003		0.0443		0.2559	100		6010B
Nickel	75 - 125	0.4238		0.0082		0.4505	92		6010B
Silver	75 - 125	0.11736		0.00038	U	0.12245	96		6010B
Zinc		2.422		2.028		0.404	98		6010B

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

Simultaneously Extractable Metals

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DUPLICATES

Client:	Windward Environmental, LLC	Service Request:	K0911038
Project No.:	09.58.02.41	Units:	UMOL/G
Project Name:	Passaic RI/FS Sediment	Basis:	DRY
Matrix:	SEDIMENT	% Solids:	51.8

Sample Name: LPRT01CD Lab Code: K0911038-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Cadmium	30	0.00080		0.00077		3.8		6010B
Copper	30	0.0399		0.0343		15.1		6010B
Lead	30	0.0443		0.0426		3.9		6010B
Nickel	30	0.0082		0.0084		2.4		6010B
Silver		0.00038	U	0.00038	U			6010B
Zinc	30	2.028		2.214		8.8		6010B

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

Simultaneously Extractable Metals

LABORATORY CONTROL SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Aqueous LCS Source: Inorganic Ventures **Solid LCS Source:**

Analyte	Aqueous: umol/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Cadmium	11.100	11.360	102					
Copper	9.830	10.030	102					
Lead	12.100	11.920	99					
Nickel	21.300	21.130	99					
Silver	5.790	5.351	92					
Zinc	19.100	19.760	103					

Simultaneously Extractable Metals

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ICP SERIAL DILUTIONS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41 **Units:** UMOL/L

Project Name: Passaic RI/FS Sediment

Sample Name: LPRT01CL **Lab Code:** K0911038-001L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Cadmium	0.038		0.038		0.0		P
Copper	1.888		1.930		2.2		P
Lead	2.096		2.055		2.0		P
Nickel	0.389		0.438		12.6		P
Silver	0.018	U	0.090	U			P
Zinc	95.900		93.250		2.8		P

Simultaneously Extractable Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP/ICP-MS ID #: K-ICP AES-03

GFAA ID #: AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL umol/L	PQL umol/L	M
Cadmium	226.5		0.0044	0.0044	P
Copper	327.3		0.030	0.030	P
Lead	220.3		0.048	0.048	P
Nickel	221.6		0.033	0.033	P
Silver	328.1		0.018	0.018	P
Zinc	206.2		0.030	0.030	P

Comments:

Columbia Analytical Services

Simultaneously Extractable Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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	0.0000670	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000400	0.0000000	-0.0000400	0.0000000	0.0000000
Arsenic	189.042	0.0000390	0.0000000	-0.0000760	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000070	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0001260	0.0000000	0.0012990
Cadmium	226.502	0.0000000	0.0000000	0.0001210	0.0000000	-0.0001520
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000040	0.0000080	0.0000000
Cobalt	230.786	0.0000000	0.0000000	0.0000170	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0000080	0.0000000	0.0002940
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000680	0.0000000	0.0000290	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	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	-0.0000080	0.0000000	0.0000000
Nickel	221.647	0.0000080	0.0000000	0.0000120	0.0000000	-0.0000960
Phosphorus	214.914	-0.0012840	0.0000000	0.0011150	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	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	0.0047240
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000130	0.0000000	0.0000000	0.0000230
Vanadium	292.402	0.0000000	0.0000000	0.0000290	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000540	0.0000000	0.0000000

Comments:

Columbia Analytical Services

Simultaneously Extractable Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Mn	Mo	Ni	Si
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0175150	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0004620	0.0000000	0.0006670	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	-0.0000290	-0.0001980	-0.0000220	0.0000000
Boron	249.678	0.0002640	0.0000000	-0.0005900	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0001240	0.0000000	0.0000000	0.0000000
Cobalt	230.786	-0.0000340	0.0001060	-0.0082640	0.0002190	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	-0.0023650	0.0000000	0.0005320
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	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	221.647	-0.0003740	0.0001080	0.0000000	0.0000000	0.0003870
Phosphorus	214.914	0.0000000	-0.0009470	0.0075330	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0010320	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0071110	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000520	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	0.0003510	0.0010860	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	0.0000540	0.0001230	0.0000000
Vanadium	292.402	0.0000000	0.0000000	-0.0103660	0.0000000	0.0000000
Zinc	206.2	-0.0001350	0.0000000	0.0001870	0.0000000	0.0000000

Comments:

Columbia Analytical Services

Simultaneously Extractable Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	V			
Aluminum	394.401	0.0000000	0.0000000			
Antimony	206.833	0.0005270	0.0000000			
Arsenic	189.042	0.0000000	0.0000000			
Barium	455.403	0.0000000	0.0000000			
Beryllium	234.861	0.0000000	0.0000000			
Boron	249.678	0.0000000	0.0000000			
Cadmium	226.502	0.0000660	0.0000000			
Calcium	393.366	0.0000000	0.0000000			
Chromium	267.716	0.0000000	-0.0000660			
Cobalt	230.786	0.0000000	0.0000000			
Copper	327.396	0.0001000	0.0000000			
Iron	259.94	0.0000000	0.0000000			
Lead	220.353	-0.0005720	0.0000000			
Lithium	670.784	0.0000000	0.0000000			
Magnesium	285.213	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Molybdenum	202.03	0.0000000	0.0000000			
Nickel	221.647	-0.0019510	0.0000000			
Phosphorus	214.914	0.0000000	-0.0053970			
Potassium	766.491	0.0000000	0.0000000			
Selenium	196.0	0.0000000	0.0000000			
Silicon	251.611	0.0000000	0.0000000			
Silver	328.068	0.0000000	0.0000590			
Sodium	589.592	0.0000000	0.0000000			
Strontium	407.771	0.0000000	0.0000000			
Thallium	190.856	-0.0007260	-0.0030470			
Tin	189.989	-0.0005630	0.0000000			
Titanium	336.121	0.0000000	0.0000210			
Vanadium	292.402	0.0007120	0.0000000			
Zinc	206.2	0.0000000	0.0000000			

Comments:

Simultaneously Extractable Metals
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ICP LINEAR RANGES (QUARTERLY)

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Cadmium	15.000	22500	6010B
Copper	15.000	90000	6010B
Lead	15.000	90000	6010B
Nickel	15.000	45000	6010B
Silver	15.000	1800	6010B
Zinc	15.000	18000	6010B

Comments:

Simultaneously Extractable Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911038-001	11/23/09	9.13	0.0 100
K0911038-001D	11/23/09	9.12	40 12/5/09 0.0
K0911038-001S	11/23/09	9.13	0.0
K0911038-002	11/23/09	9.03	0.0
K0911038-003	11/23/09	9.20	0.0
K0911038-004	11/23/09	9.94	0.0
K0911038-005	11/23/09	9.70	0.0
K0911038-006	11/23/09	9.13	0.0
K0911038-007	11/23/09	8.86	0.0
K0911038-008	11/23/09	9.00	0.0
K0911038-009	11/23/09	9.43	0.0
K0911038-MB	11/23/09	10.00	0.0
LCSW	11/23/09	50.0	50.0

Columbia Analytical Services

Simultaneously Extractable Metals

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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 11/24/2009 **End Date:** 11/24/2009

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	16:41							X				X		X				X			X				X	
STD A	1	16:44							X				X		X				X			X				X	
STD B	1	16:47																									
ICV1	1	16:50							X				X		X				X			X				X	
ZZZZZZ	1	16:53																									
ICB1	1	16:56							X				X		X				X			X				X	
CCVA1	1	16:59							X				X		X				X			X				X	
ZZZZZZ	1	17:02																									
CCB1	1	17:06							X				X		X				X			X				X	
ZZZZZZ	1	17:08																									
CRDL1	1	17:11							X				X		X				X			X				X	
ICSA	1	17:14							X				X		X				X			X				X	
ICSAB	1	17:18							X				X		X				X			X				X	
ZZZZZZ	1	17:22																									
ZZZZZZ	1	17:25																									
ZZZZZZ	1	17:28																									
ZZZZZZ	1	17:31																									
ZZZZZZ	1	17:34																									
ZZZZZZ	5	17:38																									
CCVA2	1	17:41							X				X		X				X			X				X	
ZZZZZZ	1	17:44																									
CCB2	1	17:47							X				X		X				X			X				X	
ZZZZZZ	1	17:50																									
ZZZZZZ	1	17:53																									
ZZZZZZ	1	17:56																									
ZZZZZZ	1	17:59																									
ZZZZZZ	1	18:03																									
ZZZZZZ	1	18:06																									
ZZZZZZ	1	18:10																									
ZZZZZZ	1	18:13																									
ZZZZZZ	1	18:16																									
ZZZZZZ	1	18:20																									

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

Columbia Analytical Services

Simultaneously Extractable Metals

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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 11/24/2009 **End Date:** 11/24/2009

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
CCVA3	1	18:23							X				X		X				X			X				X	
ZZZZZZ	1	18:26																									
ZZZZZZ	1	18:30																									
CCB3	1	18:34							X				X		X				X			X				X	
ZZZZZZ	1	18:36																									
ZZZZZZ	1	18:40																									
ZZZZZZ	1	18:43																									
ZZZZZZ	1	18:46																									
ZZZZZZ	1	18:50																									
ZZZZZZ	1	18:53																									
ZZZZZZ	1	18:57																									
ZZZZZZ	1	19:00																									
K0911038-MB	1	19:04							X				X		X				X			X				X	
LCSW	1	19:07							X				X		X				X			X				X	
CCVA4	1	19:10							X				X		X				X			X				X	
ZZZZZZ	1	19:13																									
CCB4	1	19:17							X				X		X				X			X				X	
K0911038-001	1	19:19							X				X		X				X			X				X	
K0911038-001D	1	19:23							X				X		X				X			X				X	
K0911038-001L	5	19:26							X				X		X				X			X				X	
K0911038-001S	1	19:29							X				X		X				X			X				X	
K0911038-002	1	19:33							X				X		X				X			X					
K0911038-003	1	19:36							X				X		X				X			X					
K0911038-004	1	19:40							X				X		X				X			X					
K0911038-005	1	19:43							X				X		X				X			X				X	
K0911038-006	1	19:46							X				X		X				X			X				X	
K0911038-007	1	19:50							X				X		X				X			X					
CCVA5	1	19:53							X				X		X				X			X				X	
ZZZZZZ	1	19:56																									
CCB5	1	20:00							X				X		X				X			X				X	
K0911038-008	1	20:03							X				X		X				X			X				X	
K0911038-009	1	20:06							X				X		X				X			X					

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

Columbia Analytical Services

Simultaneously Extractable Metals

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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 11/24/2009 **End Date:** 11/24/2009

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	20:10																									
ZZZZZZ	1	20:13																									
ZZZZZZ	1	20:16																									
ZZZZZZ	1	20:19																									
ZZZZZZ	5	20:23																									
ZZZZZZ	1	20:26																									
ZZZZZZ	1	20:29																									
ZZZZZZ	1	20:32																									
CCVA6	1	20:36							X				X		X				X			X				X	
ZZZZZZ	1	20:39																									
CCB6	1	20:42							X				X		X				X			X				X	
ZZZZZZ	1	20:45																									
ZZZZZZ	1	20:49																									
ZZZZZZ	1	20:52																									
ZZZZZZ	1	20:55																									
ZZZZZZ	1	20:59																									
ZZZZZZ	1	21:02																									
ZZZZZZ	1	21:06																									
ZZZZZZ	1	21:09																									
ZZZZZZ	1	21:12																									
ZZZZZZ	1	21:16																									
CCVA7	1	21:19							X				X		X				X			X				X	
ZZZZZZ	1	21:22																									
CCB7	1	21:26							X				X		X				X			X				X	
ZZZZZZ	1	21:28																									
ZZZZZZ	1	21:32																									
ZZZZZZ	10	21:35																									
ZZZZZZ	10	21:38																									
ZZZZZZ	50	21:41																									
ZZZZZZ	10	21:44																									
ZZZZZZ	20	21:48																									
ZZZZZZ	20	21:51																									

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

Columbia Analytical Services

Simultaneously Extractable Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 11/24/2009 **End Date:** 11/24/2009

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	20	21:54																									
ZZZZZZ	20	21:57																									
CCVA8	1	22:00							X				X		X				X			X				X	
ZZZZZZ	1	22:03																									
CCB8	1	22:06							X				X		X				X			X				X	
ZZZZZZ	20	22:09																									
ZZZZZZ	20	22:12																									
ZZZZZZ	20	22:15																									
ZZZZZZ	20	22:18																									
ZZZZZZ	20	22:21																									
K0911038-002	20	22:24																								X	
CCVA9	1	22:27							X				X		X				X			X				X	
ZZZZZZ	1	22:30																									
CCB9	1	22:33							X				X		X				X			X				X	

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

Columbia Analytical Services

Simultaneously Extractable Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 11/30/2009 **End Date:** 11/30/2009

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	15:29																								X	
STD A	1	15:32																								X	
STD B	1	15:35																									
ICV2	1	15:38																								X	
ZZZZZZ	1	15:41																									
ICB2	1	15:44																								X	
CCVA1	1	15:47																								X	
ZZZZZZ	1	15:50																									
CCB1	1	15:54																								X	
ZZZZZZ	1	15:56																									
CRDL2	1	15:59																								X	
ICSA	1	16:02																								X	
ICSAB	1	16:05																								X	
ZZZZZZ	1	16:09																									
K0911038-007	20	16:12																								X	
K0911038-009	20	16:15																								X	
ZZZZZZ	20	16:18																									
K0911038-003	20	16:21																								X	
K0911038-004	20	16:24																								X	
CCVA2	1	16:27																								X	
ZZZZZZ	1	16:30																									
CCB2	1	16:34																								X	
ZZZZZZ	20	16:37																									
ZZZZZZ	100	16:40																									
ZZZZZZ	20	16:43																									
ZZZZZZ	20	16:46																									
ZZZZZZ	20	16:49																									
ZZZZZZ	20	16:52																									
ZZZZZZ	20	16:55																									
ZZZZZZ	20	16:58																									
ZZZZZZ	20	17:01																									
ZZZZZZ	20	17:04																									

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

Simultaneously Extractable Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911038

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 11/30/2009 **End Date:** 11/30/2009

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
CCVA3	1	17:07																								X	
ZZZZZZ	1	17:10																									
CCB3	1	17:14																								X	
ZZZZZZ	20	17:16																									
ZZZZZZ	20	17:20																									
ZZZZZZ	20	17:23																									
CCVA4	1	17:26																								X	
ZZZZZZ	1	17:29																									
CCB4	1	17:32																								X	

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

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: K11038 K11048

Method: 821/R-91-100

Analysis: AVS/SEM

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	AVS - Final Volume (mL)	mLs 50% HCl added	SEM - Final Volume (mL)	Sample description:
11/23/09	MB	50mL	40	10	100	—
	LCS	9.162				—
	K1038-1	9.128				Mud, Water
	-1d	9.122				
	-1s	9.396				
	-1sd	9.047				
	-2	9.029				sand, rocks
	-3	9.202				mud, water
	-4	9.138				mud, water, rocks
	-5	9.697				Mud, water
	-6	9.134				mud, water, leaves
	-7	8.865				Mud, water
	-8	9.004				Mud, water, rocks
	-9	9.431				
	K1048-1	8.962				
	-2	8.999				Sand

COPY

LCS 1 = % REC =

LCS 2 = % REC =

Spike = % REC =

Spike Dup.= % REC =

x =

STD ID# = RPD =

Prepared By: SLS		Date Prepared:	11/23/09 1110
Analyzes By:		Date Analyzed:	
Reviewed By:		Date Reviewed:	

Service Request # K0911038
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 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	✓	

Comments:
StarLIMS Run # 180781 Saved under 112409EICP03
NR LL Al, Ca, Mg. NR Sb, Mn, V, Tl. NR LL K
SEM Calibration. Do not report 200.7.
k Flags corrected with IECs.
Dilute for Zn: 3,4,7,9

Primary Review by LLMR Date 11/25/09

Secondary Review by JC Date 12/1/09

Sample Name: BLK Acquired: 11/24/2009 16:41:31 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409e Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-30.99**	**1.880**	**1.650**	**.0092**	**-4.914**	**-.0006**	**.0013**	**.0000**
Stddev	5.60	.990	.410	.0001	2.711	.0000	.0005	.0000
%RSD	18.08	52.66	24.86	1.447	55.16	5.253	34.76	128.2
#1	-34.95	2.580	1.940	.0093	-6.831	-.0006	.0016	.0000
#2	-27.03	1.180	1.360	.0091	-2.998	-.0007	.0010	.0001

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**-299.8**	**.0005**	**-.0012**	**-.0002**	**3.875**	**.0001**	**.0001**
Stddev	.0002	8.1	.0000	.0008	.0001	1.874	.0000	.0001
%RSD	302.7	2.689	1.577	67.32	40.85	48.36	10.77	107.7
#1	.0003	-294.1	.0005	-.0006	-.0002	2.550	.0001	.0000
#2	-.0001	-305.5	.0005	-.0018	-.0003	5.200	.0001	.0001

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**.0001**	**81.88**	**-.6400**	**-11.69**	**2.240**	**-.0001**	**.0006**
Stddev	.0001	.0007	1.66	.8768	13.22	5.996	.0000	.0004
%RSD	73.30	595.5	2.030	137.0	113.1	267.7	42.96	62.97
#1	.0000	-.0004	83.05	-1.260	-2.343	-2.000	-.0001	.0008
#2	.0001	.0006	80.70	-.0200	-21.03	6.480	-.0001	.0003

Elem	Ti3361	Tl1908
Units	Cts/S	Cts/S
Avg	**.0018**	**-.0053**
Stddev	.0000	.0003
%RSD	2.131	6.094
#1	.0018	-.0055
#2	.0018	-.0051

Sample Name: BLK Acquired: 11/24/2009 16:41:31 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409e Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2445.6	74218.	7835.9	424.72
Stddev	.2	110.	28.2	.93
%RSD	.01015	.14853	.36010	.21921
#1	2445.4	74140.	7855.9	424.06
#2	2445.7	74296.	7816.0	425.38

11/24/09

Sample Name: STD A Acquired: 11/24/2009 16:44:34 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409e Database: 1109
Comment: icp6-81-a

Elem	Sb2068	Be2348	Cd2265	Cr2677	Co2307	Cu3273	Pb2203	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**256.0**	**24120.**	**1.980**	**.0713**	**.6325**	**6920.**	**.8963**	**.3839**
Stddev	.4	167.	.003	.0001	.0010	40.	.0004	.0005
%RSD	.1712	.6925	.1358	.2058	.1504	.5774	.0436	.1176
#1	256.3	24000.	1.982	.0712	.6319	6892.	.8960	.3835
#2	255.7	24230.	1.978	.0715	.6332	6948.	.8966	.3842

Elem	Mn2605	Mo2020	Ni2216	Se1960	Ag3280	V_2924	Zn2062	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0199**	**.5791**	**.7578**	**125.9**	**7137.**	**.0846**	**3.076**	**.3458**
Stddev	.0001	.0012	.0007	1.0	17.	.0002	.001	.0001
%RSD	.5433	.2042	.0897	.7854	.2439	.2675	.0190	.0318
#1	.0200	.5783	.7573	126.6	7149.	.0844	3.076	.3458
#2	.0198	.5799	.7583	125.2	7124.	.0847	3.077	.3457

Elem	Tl1908
Units	Cts/S
Avg	**.5429**
Stddev	.0041
%RSD	.7540
#1	.5400
#2	.5458

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2473.1**	**74443.**	**7873.7**	**426.46**
Stddev	1.4	430.	12.7	.61
%RSD	.05832	.57697	.16187	.14337
#1	2472.1	74139.	7882.7	426.89
#2	2474.1	74747.	7864.6	426.02

Sample Name: STD B Acquired: 11/24/2009 16:47:28 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: icp6-79-d

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790	Mg2852	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**74720.**	**488.6**	**117.8**	**2.206**	**4.126**	**.3928**	**63780.**	**9860.**
Stddev	295.	.6	.3	.012	.008	.0009	54.	44.
%RSD	.3948	.1269	.2662	.5253	.1855	.2394	.0847	.4490
#1	74510.	488.2	118.1	2.198	4.120	.3922	63820.	9892.
#2	74930.	489.1	117.6	2.214	4.131	.3935	63740.	9829.

Elem	Na5895
Units	Cts/S
Avg	**23140.**
Stddev	44.
%RSD	.1920
#1	23170.
#2	23110.

Int. Std.	Y_2243	Y_3600-2
Units	Cts/S	Cts/S
Avg	**2406.5**	**7828.6**
Stddev	5.5	29.8
%RSD	.22680	.38123
#1	2410.4	7849.7
#2	2402.6	7807.5

Sample Name: ICV1 Acquired: 11/24/2009 16:50:46 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-75-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**184.1**	**20.69**	**33.70**	**37.71**	**14.06**	**11.21**	**317.3**	**9.966**	**21.62**
Stddev	.8	.02	.03	.07	.13	.08	.4	.008	.10
%RSD	.4136	.0999	.0801	.1784	.9560	.7177	.1186	.0781	.4718
#1	184.6	20.68	33.71	37.76	14.16	11.15	317.6	9.972	21.55
#2	183.6	20.71	33.68	37.66	13.97	11.27	317.1	9.961	21.69
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**10.08**	**45.53**	**12.73**	**523.5**	**520.4**	**22.64**	**23.46**	**21.51**	**21.51**
Stddev	.03	.14	.11	2.8	3.1	.09	.10	.10	.14
%RSD	.2663	.3053	.8387	.5265	.5947	.4176	.4268	.4711	.6710
#1	10.10	45.63	12.65	521.6	522.6	22.57	23.39	21.44	21.41
#2	10.06	45.43	12.80	525.5	518.2	22.71	23.53	21.58	21.61
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**323.0**	**31.37**	**5.998**	**553.2**	**25.04**	**20.50**	**42.84**	**12.94**
Stddev	1.9	.09	.005	1.3	.13	.15	.19	.10
%RSD	.5895	.2710	.0816	.2292	.5220	.7094	.4381	.7737
#1	324.3	31.31	5.995	554.1	24.95	20.40	42.70	12.87
#2	321.6	31.43	6.001	552.3	25.13	20.60	42.97	13.01
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Sample Name: ICV1 Acquired: 11/24/2009 16:50:46 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-75-A

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2415.5	73119.	7814.7	395.70
Stddev	8.5	461.	32.7	2.23
%RSD	.35170	.63104	.41838	.56446
#1	2421.5	73445.	7837.8	397.28
#2	2409.5	72793.	7791.6	394.12

Sample Name: ICVB1 Acquired: 11/24/2009 16:53:48 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-80-C

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**36.53**	**.0030**	**-.0746**	**.0029**	**.0166**	**.0014**	**127.7**	**-.0056**	**-.0029**
Stddev	.36	.0023	.0258	.0025	.0026	.0000	.0	.0085	.0019
%RSD	.9745	77.16	34.65	83.65	15.94	2.341	.0112	151.1	66.52
#1	36.79	.0014	-.0563	.0047	.0147	.0014	127.7	-.0117	-.0043
#2	36.28	.0046	-.0928	.0012	.0185	.0014	127.7	.0004	-.0015
Check ?	None	None	None	None	None	None	None	None	None
Value Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0282**	**175.8**	**.0092**	**205.5**	**208.3**	**168.0**	**182.0**	**.0227**	**.0155**
Stddev	.0154	.9	.0021	.3	.3	.7	1.0	.0057	.0028
%RSD	54.44	.4936	22.47	.1470	.1462	.3873	.5328	24.97	17.75
#1	.0391	175.2	.0106	205.8	208.6	167.5	181.3	.0267	.0175
#2	.0174	176.4	.0077	205.3	208.1	168.4	182.6	.0187	.0136
Check ?	None	None	None	None	None	None	None	None	None
Value Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-2.469**	**-.0314**	**.0104**	**-.2262**	**.0016**	**.0057**	**.0045**	**.0293**
Stddev	.711	.0189	.0038	.5543	.0098	.0010	.0017	.0085
%RSD	28.78	60.14	36.56	245.1	623.7	18.51	38.51	29.08
#1	-1.967	-.0180	.0131	-.6181	.0085	.0064	.0033	.0233
#2	-2.972	-.0447	.0077	.1658	-.0053	.0049	.0057	.0354
Check ?	None	None	None	None	None	None	None	None
Value Range								

Sample Name: ICVB1 Acquired: 11/24/2009 16:53:48 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-80-C

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.0	74684.	7878.3	421.58
Stddev	8.6	378.	4.4	1.61
%RSD	.35337	.50557	.05523	.38074
#1	2449.1	74951.	7881.4	422.71
#2	2436.9	74417.	7875.2	420.44

Sample Name: ICB Acquired: 11/24/2009 16:56:56 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1379**	**-.0134**	**-.0371**	**.0005**	**.0142**	**.0005**	**.0045**	**-.0092**	**.0029**
Stddev	.0486	.0072	.0072	.0009	.0049	.0006	.1799	.0038	.0039
%RSD	35.22	54.10	19.52	198.9	34.70	124.8	4009.	41.04	134.0
#1	.1036	-.0185	-.0320	.0011	.0177	.0009	.1317	-.0119	.0002
#2	.1723	-.0083	-.0422	-.0002	.0107	.0001	-.1227	-.0065	.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0288**	**.0483**	**-.0010**	**.4063**	**.0029**	**.0038**	**-.0086**	**.0072**	**.0083**
Stddev	.0004	.0059	.0086	1.298	.0511	.0001	.0080	.0036	.0007
%RSD	1.500	12.19	869.1	319.4	1760.	2.272	93.07	49.84	8.425
#1	.0285	.0442	-.0071	1.324	-.0332	.0039	-.0029	.0047	.0078
#2	.0291	.0525	.0051	-.5113	.0390	.0038	-.0142	.0098	.0088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-1.444**	**.0344**	**.0086**	**-1.079**	**-.0060**	**-.0005**	**.0000**	**.0099**
Stddev	.711	.0194	.0055	.196	.0065	.0054	.001	.0083
%RSD	49.23	56.30	63.98	18.16	108.1	1012.	3597.	83.65
#1	-.9412	.0207	.0047	-1.217	-.0106	-.0043	.0004	.0158
#2	-1.946	.0481	.0125	-.9404	-.0014	.0033	-.0005	.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 11/24/2009 16:56:56 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2440.8	75454.	7919.8	428.84
Stddev	4.5	41.	27.5	2.87
%RSD	.18288	.05367	.34668	.66834
#1	2444.0	75425.	7900.4	430.87
#2	2437.7	75482.	7939.2	426.82

Sample Name: CCVA1 Acquired: 11/24/2009 16:59:39 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.955**	**2.044**	**3.298**	**1.791**	**27.48**	**2.237**	**6.181**	**4.710**	**4.198**
Stddev	.130	.001	.037	.003	.15	.010	.247	.008	.026
%RSD	1.449	.0279	1.128	.1653	.5464	.4477	4.002	.1791	.6225
#1	8.863	2.044	3.272	1.789	27.59	2.230	6.006	4.716	4.179
#2	9.047	2.043	3.324	1.794	27.37	2.244	6.355	4.704	4.216
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**3.960**	**4.460**	**1.189**	**10.18**	**10.10**	**4.381**	**4.464**	**2.593**	**4.265**
Stddev	.007	.006	.012	.59	.02	.029	.016	.015	.022
%RSD	.1717	.1340	.9858	5.843	.2028	.6549	.3593	.5819	.5237
#1	3.955	4.456	1.180	10.60	10.11	4.401	4.475	2.582	4.249
#2	3.965	4.465	1.197	9.759	10.09	4.361	4.452	2.604	4.281
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**61.30**	**3.105**	**2.326**	**10.42**	**4.711**	**3.809**	**5.148**	**1.193**
Stddev	1.08	.029	.028	.08	.052	.013	.019	.003
%RSD	1.754	.9421	1.186	.7711	1.101	.3346	.3617	.2534
#1	62.06	3.126	2.307	10.37	4.748	3.800	5.161	1.195
#2	60.54	3.085	2.346	10.48	4.674	3.818	5.135	1.191
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA1 Acquired: 11/24/2009 16:59:39 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2438.4	75350.	7943.5	427.19
Stddev	10.6	78.	69.0	1.85
%RSD	.43391	.10360	.86922	.43368
#1	2445.9	75295.	7992.3	428.50
#2	2430.9	75405.	7894.6	425.88

Sample Name: CCVB1 Acquired: 11/24/2009 17:02:34 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**362.9**	**-.1544**	**13.24**	**72.67**	**.0226**	**.0000**	**245.0**	**.0067**	**.0111**
Stddev	.3	.0034	.04	1.06	.0125	.0002	.9	.0068	.0012
%RSD	.0725	2.206	.2947	1.463	55.27	913.2	.3714	101.5	10.83
#1	363.0	-.1568	13.21	71.92	.0314	-.0001	245.6	.0115	.0119
#2	362.7	-.1520	13.27	73.42	.0138	.0001	244.3	.0019	.0102
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1160**	**176.8**	**.0009**	**413.1**	**399.9**	**.0100**	**-.0229**	**.0034**	**.0130**
Stddev	.0042	.2	.0003	1.3	3.8	.0001	.0060	.0023	.0030
%RSD	3.610	.1109	37.18	.3263	.9554	1.121	26.00	67.43	23.07
#1	-.1130	176.7	.0007	414.0	402.6	.0099	-.0187	.0051	.0152
#2	-.1189	177.0	.0011	412.1	397.2	.0101	-.0271	.0018	.0109
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**253.6**	**.0225**	**.0118**	**420.3**	**-.0029**	**-.0007**	**3.291**	**.0031**
Stddev	.9	.0418	.0017	2.7	.0055	.0033	.005	.0027
%RSD	.3665	185.4	14.18	.6353	191.9	443.8	.1632	89.15
#1	254.2	-.0070	.0106	422.1	-.0068	.0016	3.295	.0050
#2	252.9	.0521	.0130	418.4	.0010	-.0031	3.287	.0011
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Sample Name: CCVB1 Acquired: 11/24/2009 17:02:34 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2397.5	73682.	7864.7	410.73
Stddev	10.2	135.	38.5	.10
%RSD	.42376	.18259	.48951	.02324
#1	2404.7	73587.	7891.9	410.80
#2	2390.3	73777.	7837.5	410.66

Sample Name: CCB1 Acquired: 11/24/2009 17:06:05 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1512**	**-.0013**	**-.0358**	**.0032**	**.0062**	**-.0001**	**.2491**	**-.0028**	**.0023**
Stddev	.0042	.0096	.0364	.0002	.0077	.0010	.1450	.0044	.0048
%RSD	2.775	741.6	101.7	6.729	124.7	913.2	58.22	154.2	208.1
#1	.1482	-.0081	-.0101	.0033	.0007	-.0008	.3516	.0003	-.0011
#2	.1542	.0055	-.0616	.0030	.0116	.0006	.1466	-.0059	.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0139**	**.0256**	**.0027**	**-.6508**	**-.0306**	**.0005**	**-.0326**	**-.0025**	**.0019**
Stddev	.0038	.0007	.0001	1.463	.0228	.0002	.0092	.0054	.0011
%RSD	27.54	2.568	2.913	224.8	74.43	40.21	28.39	214.9	58.42
#1	.0112	.0261	.0027	.3835	-.0468	.0006	-.0391	.0013	.0011
#2	.0166	.0251	.0028	-1.685	-.0145	.0004	-.0260	-.0063	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-1.600**	**.0154**	**.0058**	**-.5510**	**.0048**	**-.0001**	**-.0005**	**.0071**
Stddev	.013	.0264	.0012	.2390	.0048	.0001	.0026	.0044
%RSD	.8101	172.1	20.09	43.38	99.30	72.17	514.5	62.51
#1	-1.609	.0341	.0050	-.7200	.0014	-.0002	.0013	.0040
#2	-1.590	-.0033	.0066	-.3820	.0082	-.0001	-.0023	.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB1 Acquired: 11/24/2009 17:06:05 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Jnits	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.5	75387.	7950.9	426.95
Stddev	36.7	245.	14.0	7.05
%RSD	1.5174	.32457	.17609	1.6512
#1	2447.5	75214.	7960.8	431.94
#2	2395.5	75560.	7941.0	421.97

Sample Name: CRI Acquired: 11/24/2009 17:08:49 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-80-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**1.824**	**.4129**	**1.234**	**.0346**	**.5600**	**.0421**	**1.230**	**.1013**	**.1643**
Stddev	.046	.0033	.019	.0006	.0087	.0002	.011	.0033	.0066
%RSD	2.535	.7900	1.549	1.664	1.551	.4855	.9182	3.285	3.994
#1	1.791	.4152	1.221	.0350	.5539	.0420	1.222	.0989	.1689
#2	1.857	.4106	1.248	.0342	.5662	.0423	1.238	.1036	.1596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1620**	**.3393**	**.2372**	**.3344**	**.8056**	**.0861**	**.0739**	**.1010**	**.3458**
Stddev	.0009	.0021	.0015	.3442	.0173	.0004	.0003	.0040	.0033
%RSD	.5614	.6301	.6364	102.9	2.152	.4667	.4046	3.941	.9626
#1	.1613	.3378	.2361	.0910	.7933	.0863	.0737	.1038	.3482
#2	.1626	.3408	.2383	.5778	.8178	.0858	.0741	.0982	.3435
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**9.100**	**1.130**	**.0938**	**7.572**	**.1917**	**.1473**	**.2081**	**.9276**
Stddev	.850	.043	.0019	.251	.0034	.0000	.0046	.0081
%RSD	9.337	3.825	1.976	3.318	1.795	.0105	2.212	.8718
#1	9.701	1.099	.0951	7.750	.1942	.1473	.2049	.9219
#2	8.499	1.160	.0925	7.395	.1893	.1473	.2114	.9333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI Acquired: 11/24/2009 17:08:49 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-80-A

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2438.0	75474.	7919.5	429.18
Stddev	6.5	212.	20.0	1.18
%RSD	.26799	.28125	.25273	.27515
#1	2442.6	75624.	7905.3	428.34
#2	2433.4	75324.	7933.6	430.01

Sample Name: CRI Acquired: 11/24/2009 17:11:52 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICAP ICP6-76-C

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2283**	**.0809**	**.0665**	**.0135**	**.0279**	**.0038**	**.1615**	**.0294**
Stddev	.0051	.0039	.0034	.0027	.0094	.0014	.0946	.0004
%RSD	2.251	4.864	5.051	20.40	33.87	36.28	58.57	1.317
#1	.2319	.0781	.0689	.0154	.0346	.0048	.2283	.0291
#2	.2246	.0837	.0641	.0115	.0212	.0028	.0946	.0296
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0161**	**.0428**	**.1742**	**.0499**	**.2842**	**.0755**	**.0118**	**-.0063**
Stddev	.0114	.0162	.0143	.0046	.0268	.0871	.0008	.0007
%RSD	70.36	37.92	8.198	9.184	9.423	115.4	6.568	11.27
#1	.0081	.0313	.1641	.0531	.2652	.1371	.0123	-.0068
#2	.0242	.0543	.1843	.0466	.3031	.0139	.0112	-.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None
Value								
Range								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**.0196**	**.0436**	F **.8495**	**.2047**	**.0236**	**7.650**	**.0348**	**.0300**
Stddev	.0016	.0016	1.051	.0057	.0029	.236	.0021	.0028
%RSD	8.174	3.606	123.8	2.768	12.30	3.079	5.990	9.331
#1	.0207	.0425	.1060	.2006	.0215	7.483	.0333	.0320
#2	.0184	.0447	1.593	.2087	.0257	7.816	.0362	.0281
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			7.700					
Range			-50.00%					

Sample Name: CRI Acquired: 11/24/2009 17:11:52 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICAP ICP6-76-C

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	.0197	.0444
Stddev	.0032	.0044
%RSD	16.49	9.904
#1	.0174	.0413
#2	.0220	.0475
Check ?	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	2442.2	75525.	7944.5	429.48
Stddev	1.2	427.	14.5	.32
%RSD	.05079	.56592	.18265	.07464
#1	2441.3	75222.	7934.3	429.71
#2	2443.1	75827.	7954.8	429.25

Sample Name: ICSA Acquired: 11/24/2009 17:14:24 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-82-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**16780.**	**.0736**	**-.2278**	**.0030**	**.1252**	**.0173**	**11910.**	**-.0439**	**.0171**
Stddev	14.	.0455	.0323	.0002	.0082	.0002	38.	.0107	.0068
%RSD	.0852	61.78	14.17	7.444	6.555	1.031	.3232	24.30	39.58
#1	16770.	.0414	-.2050	.0029	.1194	.0174	11940.	-.0364	.0123
#2	16790.	.1057	-.2506	.0032	.1310	.0171	11880.	-.0515	.0219
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1887**	**3250.**	**.0004**	**21100.**	**17040.**	**.3650**	**.1074**	**-.0132**	**.0130**
Stddev	.0005	2.	.0035	41.	96.	.0009	.0076	.0018	.0095
%RSD	.2704	.0480	956.9	.1933	.5629	.2537	7.108	13.93	73.16
#1	.1884	3249.	-.0021	21080.	16970.	.3643	.1020	-.0145	.0198
#2	.1891	3251.	.0028	21130.	17100.	.3656	.1128	-.0119	.0063
Check ?	None	Chk Pass	None	Chk Pass	None	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.2537**	**-.1621**	**-.0008**	**1.140**	**.0445**	**.0179**	**1.109**	**-.0171**
Stddev	.6938	.0469	.0009	.034	.0177	.0001	.010	.0148
%RSD	273.4	28.92	119.0	2.936	39.73	.6872	.9031	86.59
#1	-.7443	-.1289	-.0001	1.117	.0571	.0178	1.102	-.0066
#2	.2368	-.1952	-.0014	1.164	.0320	.0180	1.116	-.0276
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: ICSA Acquired: 11/24/2009 17:14:24 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-82-A

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2155.5	65456.	7506.6	329.69
Stddev	4.7	249.	6.9	1.54
%RSD	.21903	.38107	.09166	.46582
#1	2158.9	65279.	7511.5	330.78
#2	2152.2	65632.	7501.8	328.60

Sample Name: ICSAB Acquired: 11/24/2009 17:18:08 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-78-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**16750.**	F **6.110**	**-.2086**	**3.622**	**50.37**	**8.006**	**11680.**	**9.080**
Stddev	107.	.081	.0102	.006	.26	.040	88.	.002
%RSD	.6403	1.331	4.909	.1698	.5127	.5048	.7546	.0169
#1	16830.	6.052	-.2014	3.618	50.19	7.978	11740.	9.081
#2	16680.	6.167	-.2158	3.627	50.56	8.035	11610.	9.079
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		8.200						
Range		-20.00%						

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**7.595**	**7.462**	**3197.**	**4.759**	**20850.**	**16820.**	**8.576**	**9.127**
Stddev	.019	.025	3.	.025	59.	64.	.069	.083
%RSD	.2450	.3367	.1046	.5196	.2825	.3822	.7998	.9105
#1	7.582	7.445	3195.	4.741	20800.	16860.	8.527	9.186
#2	7.608	7.480	3200.	4.776	20890.	16770.	8.624	9.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**-.0132**	**15.00**	**5.075**	**-.0304**	**8.503**	**1.826**	**9.553**	**15.12**
Stddev	.0048	.01	.725	.0245	.009	.102	.043	.03
%RSD	36.73	.0972	14.29	80.74	.1003	5.568	.4533	.2199
#1	-.0098	14.99	4.562	-.0477	8.509	1.898	9.522	15.10
#2	-.0166	15.01	5.588	-.0130	8.497	1.754	9.584	15.15
Check ?	None	Chk Pass	None	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAB Acquired: 11/24/2009 17:18:08 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: ICP6-78-A

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**1.223**	**.0095**
Stddev	.002	.0062
%RSD	.1944	65.56
#1	1.221	.0139
#2	1.225	.0051
Check ?	None	None
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2144.1**	**65236.**	**7520.4**	**334.02**
Stddev	1.8	129.	49.7	.18
%RSD	.08342	.19729	.66119	.05338
#1	2145.4	65145.	7555.6	333.90
#2	2142.9	65327.	7485.3	334.15

Sample Name: RB Acquired: 11/24/2009 17:22:34 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**2.289**	**.0057**	**-.0662**	**-.0001**	**.0129**	**.0023**	**1.558**	**.0019**	**-.0010**
#1	2.246	-.0011	-.0799	.0005	.0108	.0023	1.555	-.0001	-.0003
#2	2.332	.0124	-.0525	-.0008	.0149	.0023	1.562	.0039	-.0017

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0096**	**.4989**	**-.0004**	**2.590**	**.0017**	**.0005**	**.0017**	**.9340**	**.0037**
#1	.0055	.4872	-.0044	2.624	.0025	.0010	.0018	.5895	.0040
#2	.0137	.5106	.0036	2.555	.0009	.0000	.0015	1.279	.0033

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0518**	**-.0448**	**-.0040**	**-.0031**	**-.0001**	**-.0007**
#1	.0465	-.1063	.0074	-.0005	-.0006	.0029
#2	.0572	.0168	-.0154	-.0058	.0003	-.0042

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2429.6**	**75687.**	**7932.2**	**431.75**
#1	2431.9	75786.	7966.1	431.77
#2	2427.3	75588.	7898.4	431.74

Sample Name: K0910845-MB Acquired: 11/24/2009 17:25:39 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	F .4040	-.0101	-.0075	-.0006	.0086	.0011	F .7306	-.0035
#1	.4825	-.0109	-.0342	-.0012	.0005	.0011	.5307	-.0075
#2	.3255	-.0093	.0192	.0000	.0167	.0010	.9305	.0004

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	-.0012	.0014	-.0254	-.0002	F .0555	.0002	-.0021	.0065
#1	-.0024	.0086	-.0410	-.0047	.0261	.0014	-.0030	.0057
#2	-.0001	-.0058	-.0099	.0043	.0848	-.0010	-.0012	.0074

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	4.004	-.0384	.0041	.9484	.0017	.0046	.0001	.0142
#1	4.355	.0077	.0067	1.506	-.0005	.0033	-.0022	.0162
#2	3.653	-.0845	.0014	.3910	.0039	.0059	.0024	.0123

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2469.8	77340.	8109.2	440.42
#1	2474.0	77288.	8111.7	440.36
#2	2465.5	77391.	8106.8	440.48

Sample Name: LCSW Acquired: 11/24/2009 17:28:21 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: LCSW=0.05ml CICV-1,2,3 to 10ml w/ MB

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/Lk	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**185.2**	**21.31**	**34.23**	**36.75**	**14.61**	**11.35**	**306.1**	**9.483**	**20.61**
1	184.7	21.38	34.47	36.79	14.69	11.35	307.5	9.517	20.67
2	185.8	21.24	33.98	36.70	14.54	11.35	304.6	9.449	20.55

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**10.14**	**43.40**	**12.07**	**512.4**	**21.32**	**.0021**	**21.06**	**329.0**	**33.11**
1	10.19	43.65	12.05	513.1	21.31	.0003	21.08	328.9	33.32
2	10.09	43.16	12.10	511.7	21.33	.0039	21.05	329.2	32.89

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**5.592**	**541.7**	**23.47**	**19.66**	**.0086**	**11.83**
1	5.636	542.5	23.43	19.60	.0092	11.87
2	5.549	541.0	23.51	19.71	.0080	11.80

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2438.1**	**76224.**	**8146.5**	**424.25**
1	2447.2	76369.	8118.1	426.43
2	2429.0	76080.	8175.0	422.08

CICV-1 METI-79-E
-2 77-M
-3 77-L

Sample Name: K0910845-001 Acquired: 11/24/2009 17:31:23 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**467.9**	**.1069**	**.1248**	**4.264**	**.3031**	**.1127**	**824.3**	**3.622**	**.1930**
#1	468.1	.1046	.1256	4.273	.3143	.1125	826.9	3.618	.1924
#2	467.7	.1091	.1239	4.256	.2918	.1130	821.6	3.626	.1936

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**7.499**	**939.8**	**4.251**	**570.2**	**47.03**	**-.0022**	**.7378**	**80.82**	**.0861**
#1	7.500	938.3	4.243	569.9	47.23	-.0021	.7345	81.20	.0847
#2	7.499	941.3	4.258	570.4	46.83	-.0023	.7411	80.44	.0874

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0772**	**470.2**	**.8223**	**>275.0**	**6.264**	**.0248**
#1	.0871	470.2	.8357	458.1	6.264	.0180
#2	.0673	470.2	.8090	461.1	6.263	.0315

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2537.6**	**79221.**	**8541.5**	**411.87**
#1	2541.2	79265.	8528.4	412.48
#2	2534.0	79176.	8554.6	411.25

* dilute
[illegible]
11/25/09

Sample Name: K0910845-001D Acquired: 11/24/2009 17:34:46 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**665.4**	**.0508**	**.1519**	**5.865**	**.4189**	**.1535**	**1125.**	**5.045**	**.2561**
#1	665.8	.0695	.1707	5.865	.4107	.1533	1124.	5.027	.2561
#2	665.0	.0320	.1331	5.866	.4271	.1536	1125.	5.064	.2560

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**10.51**	**1297.**	**6.001**	**800.3**	**64.13**	**-.0050**	**1.003**	**113.0**	**.0235**
#1	10.50	1296.	5.963	798.5	63.99	-.0044	1.006	113.9	.0114
#2	10.52	1297.	6.038	802.2	64.27	-.0056	.9993	112.1	.0357

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0297**	**648.8**	**1.120**	**>275.0**	**8.716**	**.0224**
#1	.0293	648.8	1.120	627.5	8.700	.0194
#2	.0301	648.9	1.120	635.8	8.731	.0255

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2581.3**	**80794.**	**8768.1**	**406.19**
#1	2576.3	80720.	8751.8	408.09
#2	2586.4	80867.	8784.5	404.29

* dilute
11/25/09

Sample Name: K0910845-001L Acquired: 11/24/2009 17:38:07 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/5 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**92.18**	**.0018**	**.0212**	**.9093**	**.0630**	**.0234**	**175.4**	**.7731**	**.0374**
#1	92.04	-.0104	-.0217	.9118	.0567	.0229	175.2	.7725	.0366
#2	92.32	.0139	.0640	.9068	.0693	.0239	175.5	.7737	.0381

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**1.522**	**201.7**	**.8671**	**114.2**	**10.08**	**-.0040**	**.1617**	**14.51**	**-.0168**
#1	1.511	202.1	.8661	113.7	10.10	-.0035	.1666	14.34	-.0037
#2	1.533	201.3	.8682	114.7	10.07	-.0045	.1568	14.68	-.0300

Elem	Ag3280	Na5895	V_2924	Zn2062*	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0056**	**94.18**	**.1527**	**94.83**	**1.338**	**.0033**
#1	.0066	93.65	.1473	94.14	1.339	.0049
#2	.0046	94.70	.1580	95.52	1.337	.0017

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2422.2**	**76036.**	**8094.8**	**422.29**
#1	2420.8	75823.	8055.9	424.42
#2	2423.6	76250.	8133.7	420.17

*dilute
11/25/09

Sample Name: CCVA2 Acquired: 11/24/2009 17:41:10 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**9.081**	**2.069**	**3.238**	**1.795**	**27.58**	**2.283**	**6.318**	**4.639**	**4.190**
Stddev	.006	.008	.052	.007	.22	.007	.043	.015	.019
%RSD	.0675	.3955	1.605	.3957	.7905	.3158	.6828	.3281	.4450
#1	9.077	2.074	3.201	1.790	27.42	2.278	6.348	4.650	4.177
#2	9.086	2.063	3.275	1.800	27.73	2.288	6.287	4.628	4.203
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**4.002**	**4.391**	**1.187**	**10.25**	**9.999**	**4.247**	**4.537**	**2.604**	**4.312**
Stddev	.013	.021	.006	.71	.084	.010	.004	.003	.026
%RSD	.3277	.4834	.4743	6.905	.8348	.2359	.0834	.1084	.5959
#1	3.993	4.406	1.183	10.75	9.940	4.240	4.540	2.606	4.294
#2	4.011	4.376	1.191	9.751	10.06	4.254	4.534	2.602	4.331
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**63.05**	**3.086**	**2.298**	**10.78**	**4.588**	**3.872**	**5.144**	**1.155**
Stddev	.14	.018	.010	.33	.001	.047	.003	.002
%RSD	.2231	.5736	.4476	3.021	.0258	1.218	.0504	.1353
#1	62.95	3.074	2.291	10.55	4.587	3.838	5.142	1.154
#2	63.15	3.099	2.306	11.01	4.589	3.905	5.146	1.156
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA2 Acquired: 11/24/2009 17:41:10 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Jnits	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2392.1	75775.	7965.3	426.10
Stddev	4.9	389.	50.6	3.59
%RSD	.20587	.51365	.63558	.84301
#1	2395.6	75500.	7929.5	428.64
#2	2388.7	76050.	8001.1	423.56

Sample Name: CCVB2 Acquired: 11/24/2009 17:44:07 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**356.3**	**-.1209**	**13.00**	**71.58**	**.0167**	**.0007**	**237.0**	**.0039**	**.0018**
Stddev	2.6	.0200	.00	1.09	.0012	.0008	.5	.0166	.0080
%RSD	.7390	16.51	.0320	1.521	6.941	115.4	.1923	431.1	439.8
#1	358.2	-.1068	13.00	72.35	.0158	.0001	237.3	.0156	.0074
#2	354.5	-.1350	13.00	70.81	.0175	.0012	236.7	-.0079	-.0038
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1184**	**171.0**	**.0029**	**402.4**	**387.8**	**.0098**	**-.0377**	**.0002**	**.0137**
Stddev	.0010	.7	.0014	1.7	1.0	.0000	.0287	.0009	.0060
%RSD	.8577	.4295	48.67	.4269	.2463	.3599	76.19	523.0	43.84
#1	-.1191	171.5	.0019	401.2	387.1	.0098	-.0580	-.0004	.0094
#2	-.1177	170.4	.0039	403.6	388.5	.0098	-.0174	.0008	.0179
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**249.8**	**.0212**	**.0155**	**412.0**	**-.0012**	**.0051**	**3.115**	**.0005**
Stddev	.2	.0432	.0001	.2	.0015	.0041	.005	.0015
%RSD	.0984	203.7	.7962	.0512	123.1	80.19	.1730	291.9
#1	249.6	.0518	.0156	411.9	-.0022	.0022	3.119	-.0006
#2	249.9	-.0093	.0154	412.2	-.0002	.0080	3.111	.0016
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Sample Name: CCVB2 Acquired: 11/24/2009 17:44:07 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2384.1	74844.	7966.3	416.94
Stddev	8.5	239.	27.9	3.00
%RSD	.35814	.31990	.35010	.71923
t1	2390.1	75013.	7946.5	419.06
t2	2378.0	74675.	7986.0	414.82

Sample Name: CCB2 Acquired: 11/24/2009 17:47:26 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1859**	**-.0204**	**-.0490**	**.0058**	**.0077**	**-.0001**	**-.0781**	**.0032**	**.0041**
Stddev	.0219	.0106	.0354	.0008	.0040	.0001	.0652	.0029	.0004
%RSD	11.80	51.98	72.29	13.66	51.67	70.14	83.47	91.65	9.251
#1	.2014	-.0129	-.0239	.0064	.0049	.0000	-.1242	.0011	.0044
#2	.1704	-.0279	-.0740	.0052	.0105	-.0001	-.0320	.0052	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0105**	**.0585**	**-.0005**	**.5121**	**-.0332**	**.0044**	**.0038**	**-.0009**	**.0019**
Stddev	.0032	.0293	.0109	.3204	.0876	.0004	.0003	.0004	.0060
%RSD	30.40	50.16	2142.	62.57	263.6	8.424	7.696	49.13	313.7
#1	.0083	.0792	.0072	.2855	.0287	.0047	.0040	-.0006	-.0023
#2	.0128	.0377	-.0082	.7387	-.0952	.0042	.0036	-.0012	.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-1.484**	**-.0090**	**.0124**	**-.1406**	**-.0042**	**.0007**	**.0036**	**.0058**
Stddev	.953	.0283	.0051	.1037	.0065	.0017	.0006	.0013
%RSD	64.23	314.2	41.30	73.74	155.4	250.7	15.46	23.03
#1	-.8103	.0110	.0088	-.0673	-.0088	-.0005	.0032	.0049
#2	-2.159	-.0290	.0161	-.2139	.0004	.0019	.0040	.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 11/24/2009 17:47:26 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2383.9	75630.	7884.0	427.88
Stddev	4.7	166.	81.0	.03
%RSD	.19924	.21910	1.0273	.00661
1	2387.3	75512.	7941.3	427.86
2	2380.6	75747.	7826.7	427.90

Sample Name: K0910845-001S Acquired: 11/24/2009 17:50:08 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: S=0.05ml CICV-1,2,3 to 10ml w/ K10845-1

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**648.5**	**21.00**	**33.56**	**38.98**	**14.89**	**10.68**	**1090.**	**12.61**	**19.79**
#1	643.4	20.99	33.50	38.99	14.91	10.69	1091.	12.55	19.80
#2	653.6	21.01	33.61	38.98	14.87	10.68	1088.	12.67	19.78

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**17.50**	**959.7**	**16.29**	**1062.**	**65.89**	**-.0028**	**20.79**	**403.1**	**31.79**
#1	17.50	960.5	16.30	1061.	65.63	-.0043	20.78	404.0	31.71
#2	17.50	958.9	16.28	1062.	66.16	-.0013	20.79	402.2	31.86

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/L	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**5.815**	**994.0**	**23.33**	**>275.0**	**6.195**	**11.66**
#1	5.807	993.1	23.26	471.8	6.186	11.70
#2	5.822	994.9	23.40	471.5	6.203	11.63

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2507.3**	**79009.**	**8528.6**	**405.79**
#1	2511.0	78983.	8517.8	405.52
#2	2503.5	79035.	8539.4	406.05

CICV-1 Met1-79-E
-2 77-M
-3 77-L

* dilute
[illegible]
11/25/09

Sample Name: K0910845-003 Acquired: 11/24/2009 17:53:14 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**1198.**	**.1034**	**.3629**	**7.756**	**.7428**	**.2772**	**1699.**	**9.727**	**.4235**
#1	1194.	.1026	.3787	7.758	.7447	.2765	1697.	9.734	.4203
#2	1202.	.1041	.3471	7.754	.7409	.2778	1700.	9.720	.4268

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**21.27**	**2163.**	**11.46**	**1275.**	**85.08**	**-.0064**	**1.613**	**162.2**	**.0556**
#1	21.18	2162.	11.40	1273.	85.33	-.0076	1.608	162.1	.0681
#2	21.37	2163.	11.51	1277.	84.83	-.0053	1.618	162.4	.0431

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0332**	**187.5**	**1.937**	**241.8**	**15.87**	**.0379**
#1	.0326	187.0	1.942	240.9	15.85	.0466
#2	.0338	188.1	1.931	242.8	15.89	.0292

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2686.0**	**85049.**	**9265.7**	**401.04**
#1	2689.1	84782.	9262.9	401.88
#2	2683.0	85316.	9268.5	400.19

Sample Name: K0910845-004 Acquired: 11/24/2009 17:56:36 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**346.4**	**.0331**	**.0886**	**3.064**	**.2324**	**.0858**	**1469.**	**2.511**	**.1445**
#1	347.9	.0230	.0738	3.064	.2433	.0855	1471.	2.514	.1451
#2	344.9	.0433	.1034	3.063	.2215	.0861	1466.	2.507	.1439

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**6.595**	**598.5**	**3.397**	**530.4**	**31.23**	**-.0057**	**.5494**	**90.97**	**.0612**
#1	6.610	596.5	3.394	531.6	31.18	-.0059	.5411	90.42	.0224
#2	6.579	600.6	3.400	529.1	31.29	-.0055	.5577	91.52	.1001

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0098**	**899.9**	**.6047**	**>275.0**	**3.864**	**.0163**
#1	.0121	900.8	.6075	954.0	3.866	.0194
#2	.0075	899.0	.6018	955.9	3.861	.0132

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2456.1**	**78040.**	**8429.1**	**404.01**
#1	2460.8	78151.	8456.6	403.77
#2	2451.4	77930.	8401.7	404.26

* dilute
[illegible]
11/25/09

Sample Name: K0910845-005 Acquired: 11/24/2009 17:59:57 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**430.7**	**.0329**	**.0734**	**2.689**	**.3190**	**.0968**	**2572.**	**3.346**	**.1518**
#1	425.9	.0250	.1014	2.682	.3270	.0964	2560.	3.361	.1482
#2	435.6	.0409	.0455	2.695	.3110	.0973	2585.	3.331	.1555

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**3.539**	**842.6**	**4.125**	**571.6**	**26.62**	**-.0027**	**.7235**	**83.03**	**.0227**
#1	3.528	837.4	4.111	573.3	26.70	-.0032	.7222	83.07	-.0016
#2	3.550	847.7	4.139	569.9	26.54	-.0022	.7249	83.00	.0471

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0034**	**472.6**	**.8512**	**190.9**	**4.483**	**.0101**
#1	.0063	473.1	.8503	190.3	4.480	.0200
#2	.0004	472.1	.8520	191.5	4.486	.0001

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2461.4**	**77913.**	**8372.8**	**401.15**
#1	2465.8	77878.	8431.6	403.03
#2	2456.9	77947.	8313.9	399.27

Sample Name: K0910845-006 Acquired: 11/24/2009 18:03:19 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**1157.**	**.0358**	**.3435**	**7.572**	**.6874**	**.2965**	**1353.**	**10.45**	**.4005**
#1	1156.	.0433	.3422	7.564	.6908	.2968	1351.	10.46	.3966
#2	1158.	.0284	.3449	7.579	.6841	.2962	1355.	10.43	.4043

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**20.05**	**2219.**	**12.34**	**1254.**	**77.53**	**-.0119**	**1.655**	**137.5**	**.0741**
#1	20.00	2212.	12.38	1254.	77.20	-.0121	1.656	137.7	.1082
#2	20.09	2227.	12.30	1254.	77.87	-.0117	1.654	137.4	.0401

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0243**	**871.0**	**1.914**	**>275.0**	**15.87**	**.0295**
#1	.0279	872.8	1.918	1396.	15.88	.0284
#2	.0207	869.2	1.910	1392.	15.86	.0306

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2667.8**	**83970.**	**9067.5**	**395.47**
#1	2675.5	83635.	9082.2	395.29
#2	2660.1	84304.	9052.9	395.66

* dilute
[illegible]
11/25/09

Sample Name: K0910845-007 Acquired: 11/24/2009 18:06:43 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**378.3**	**-.0104**	**-.0267**	**3.778**	**.2828**	**.0669**	**705.4**	**2.324**	**.1228**
#1	378.8	.0018	-.0223	3.769	.2838	.0675	704.3	2.316	.1226
#2	377.8	-.0227	-.0311	3.786	.2818	.0663	706.5	2.332	.1231

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**.8212**	**987.0**	**2.154**	**662.1**	**38.97**	**-.0042**	**.6299**	**109.7**	**.0803**
#1	.8250	985.4	2.140	662.5	38.75	-.0017	.6278	109.9	.0945
#2	.8173	988.7	2.168	661.6	39.20	-.0066	.6320	109.5	.0661

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0008**	**1648.**	**.8406**	**145.0**	**3.451**	**.0186**
#1	.0038	1647.	.8332	144.0	3.442	.0210
#2	-.0023	1649.	.8480	146.0	3.460	.0163

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2485.0**	**78264.**	**8356.6**	**404.94**
#1	2491.4	78546.	8370.7	406.49
#2	2478.6	77982.	8342.5	403.40

Sample Name: K0910845-008 Acquired: 11/24/2009 18:10:09 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**435.6**	**-.0075**	**.1155**	**4.725**	**.2988**	**.0942**	**947.6**	**2.871**	**.1950**
#1	433.0	-.0026	.0810	4.721	.2970	.0931	947.8	2.859	.1923
#2	438.2	-.0124	.1500	4.729	.3007	.0953	947.4	2.883	.1976

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**5.624**	**1029.**	**4.992**	**613.9**	**39.01**	**-.0034**	**.9946**	**60.39**	**.0119**
#1	5.620	1031.	4.986	614.2	39.00	-.0045	.9895	60.35	.0444
#2	5.627	1027.	4.998	613.6	39.01	-.0024	.9997	60.44	-.0207

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0112**	**240.0**	**.7949**	**144.0**	**5.650**	**.0240**
#1	.0083	240.2	.7990	144.0	5.649	.0177
#2	.0141	239.8	.7907	144.0	5.650	.0303

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2497.6**	**79271.**	**8488.6**	**413.81**
#1	2495.9	79195.	8488.9	413.97
#2	2499.4	79346.	8488.3	413.64

Sample Name: K0910845-009 Acquired: 11/24/2009 18:13:28 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**332.4**	**.0082**	**.0345**	**1.938**	**.2492**	**.0746**	**640.2**	**2.395**	**.1211**
#1	333.1	.0185	.0515	1.948	.2484	.0744	643.7	2.385	.1220
#2	331.7	-.0021	.0175	1.929	.2499	.0749	636.7	2.405	.1202

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**3.899**	**751.6**	**2.785**	**615.0**	**25.91**	**-.0051**	**.5962**	**108.5**	**.0008**
#1	3.905	756.6	2.777	614.2	25.88	-.0042	.5948	108.4	-.0210
#2	3.893	746.5	2.793	615.8	25.94	-.0060	.5975	108.6	.0227

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0077**	**1099.**	**.6632**	**>275.0**	**3.068**	**.0145**
#1	.0086	1097.	.6589	799.9	3.072	.0123
#2	.0068	1101.	.6675	802.1	3.063	.0167

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2482.5**	**78439.**	**8367.0**	**408.46**
#1	2484.4	78573.	8307.1	409.28
#2	2480.6	78306.	8426.9	407.63

x dilute curve 11/23/09

Sample Name: K0910845-010 Acquired: 11/24/2009 18:16:53 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**1061.**	**.0467**	**.2651**	**4.939**	**.6579**	**.2318**	**1306.**	**8.779**	**.3361**
#1	1064.	.0411	.2434	4.940	.6460	.2301	1306.	8.741	.3385
#2	1057.	.0522	.2869	4.938	.6697	.2336	1305.	8.817	.3336

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**14.37**	**1816.**	**9.769**	**1348.**	**57.74**	**-.0103**	**1.329**	**189.6**	**.0454**
#1	14.44	1824.	9.725	1341.	57.69	-.0083	1.323	187.9	.0557
#2	14.30	1808.	9.813	1356.	57.80	-.0122	1.335	191.4	.0351

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0091**	**1691.**	**1.903**	**>275.0**	**14.29**	**.0164**
#1	.0081	1680.	1.898	533.4	14.28	.0194
#2	.0100	1702.	1.909	538.9	14.30	.0135

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2672.2**	**83732.**	**9075.0**	**396.89**
#1	2672.5	84115.	9021.8	397.86
#2	2671.9	83349.	9128.2	395.93

*dilute
11/24/09

Sample Name: K0910845-011 Acquired: 11/24/2009 18:20:12 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**529.1**	**.0143**	**.1266**	**3.156**	**.2751**	**.0739**	**1199.**	**2.513**	**.3573**
#1	527.3	.0164	.1018	3.168	.2778	.0740	1205.	2.501	.3593
#2	531.0	.0122	.1513	3.144	.2723	.0738	1194.	2.524	.3554

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**9.052**	**719.3**	**8.812**	**840.4**	**17.45**	**-.0017**	**3.953**	**41.32**	**-.0173**
#1	9.044	720.2	8.789	844.3	17.36	-.0034	3.930	41.93	-.0340
#2	9.061	718.4	8.835	836.5	17.53	.0000	3.976	40.72	-.0006

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0180**	**74.66**	**.7500**	**>275.0**	**4.561**	**.0091**
#1	.0171	74.69	.7431	1328.	4.544	.0143
#2	.0189	74.63	.7569	1333.	4.577	.0039

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2471.6**	**77806.**	**8357.0**	**407.00**
#1	2477.6	77716.	8348.0	407.28
#2	2465.7	77896.	8366.0	406.72

* dilute
[illegible]
11/25/09

Sample Name: CCVA3 Acquired: 11/24/2009 18:23:32 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.875**	**2.074**	**3.229**	**1.776**	**27.77**	**2.285**	**6.259**	**4.630**	**4.170**
Stddev	.093	.013	.053	.005	.09	.006	.104	.006	.019
%RSD	1.049	.6269	1.633	.2684	.3218	.2469	1.662	.1310	.4616
#1	8.941	2.084	3.192	1.773	27.71	2.281	6.333	4.626	4.157
#2	8.809	2.065	3.266	1.779	27.84	2.289	6.185	4.635	4.184
Check ? Value Range	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**4.014**	**4.509**	**1.194**	**10.25**	**9.830**	**4.246**	**4.453**	**2.588**	**4.305**
Stddev	.012	.070	.005	.43	.100	.006	.050	.001	.005
%RSD	.2970	1.554	.3881	4.166	1.022	.1424	1.122	.0493	.1200
#1	4.006	4.460	1.191	10.55	9.901	4.250	4.489	2.587	4.301
#2	4.023	4.559	1.198	9.949	9.759	4.241	4.418	2.589	4.308
Check ? Value Range	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**59.46**	**3.102**	**2.272**	**9.831**	**4.568**	**3.916**	**5.125**	**1.147**
Stddev	1.53	.015	.003	.637	.002	.010	.002	.004
%RSD	2.565	.4788	.1395	6.478	.0532	.2556	.0333	.3737
#1	60.54	3.113	2.274	10.28	4.570	3.909	5.124	1.150
#2	58.39	3.092	2.270	9.381	4.567	3.923	5.126	1.144
Check ? Value Range	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Sample Name: CCVA3 Acquired: 11/24/2009 18:23:32 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2393.8	76138.	7931.2	427.22
Stddev	2.9	158.	61.6	1.74
%RSD	.12078	.20731	.77675	.40662
#1	2395.8	76026.	7974.8	428.44
#2	2391.7	76250.	7887.7	425.99

Sample Name: CCVB3 Acquired: 11/24/2009 18:26:28 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: OUT OF SAMPLE

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	F .2475	.0295	F -.0925	F .0023	-.0119	-.0005	F -.1456	-.0004
Stddev	.1082	.0147	.0318	.0024	.0071	.0002	.0553	.0018
%RSD	43.72	49.94	34.36	105.1	59.79	45.14	37.96	413.3
#1	.3240	.0191	-.1149	.0041	-.0068	-.0003	-.1065	.0008
#2	.1710	.0399	-.0700	.0006	-.0169	-.0007	-.1847	-.0017
Check ?	Chk Fail	None	Chk Fail	Chk Fail	None	None	Chk Fail	None
Value	370.0		13.00	73.00			250.0	
Range	-10.00%		-10.00%	-10.00%			-10.00%	

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	-.0051	-.4622	F -.0030	.0030	F .1837	F -.0623	-.0006	-.0272
Stddev	.0012	.0646	.0022	.0041	.3382	.0319	.0001	.0009
%RSD	23.86	13.97	75.47	136.8	184.1	51.22	14.58	3.284
#1	-.0042	-.5079	-.0014	.0058	.4229	-.0397	-.0007	-.0266
#2	-.0059	-.4166	-.0046	.0001	-.0555	-.0848	-.0006	-.0279
Check ?	None	None	Chk Fail	None	Chk Fail	Chk Fail	None	None
Value			180.0		410.0	410.0		
Range			-10.00%		-10.00%	-10.00%		

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	-.0029	.0031	F -3.934	.0574	.0024	-1.778	.0001	-.0002
Stddev	.0001	.0008	.307	.0089	.0014	.158	.0030	.0017
%RSD	3.742	25.85	7.814	15.59	58.22	8.874	2788.	983.2
#1	-.0030	.0037	-4.151	.0637	.0014	-1.666	.0022	.0010
#2	-.0028	.0025	-3.717	.0511	.0034	-1.889	-.0020	-.0014
Check ?	None	None	Chk Fail	None	None	None	None	None
Value			260.0					
Range			-10.00%					

Reviewed 11/25/09

Sample Name: CCVB3 Acquired: 11/24/2009 18:26:28 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: OUT OF SAMPLE

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**.0015**	**.0063**
Stddev	.0030	.0016
%RSD	195.6	26.03
#1	.0037	.0051
#2	-.0006	.0075
Check ?	None	None
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5680.3**	**167410.**	**14860.**	**1008.9**
Stddev	253.7	8258.	21.	42.6
%RSD	4.4666	4.9330	.14448	4.2249
#1	5859.7	173250.	14845.	1039.0
#2	5500.9	161570.	14875.	978.75

[illegible] 11/25/09

Sample Name: CCVB3 Acquired: 11/24/2009 18:30:36 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: RERUN

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**358.1**	**-.1492**	**13.33**	**72.16**	**.0256**	**.0006**	**242.3**	**.0037**	**.0102**
Stddev	1.2	.0051	.04	1.14	.0006	.0000	1.0	.0104	.0013
%RSD	.3328	3.384	.2822	1.573	2.332	7.248	.4201	283.6	12.68
#1	357.3	-.1528	13.30	71.35	.0252	.0006	241.5	.0110	.0112
#2	359.0	-.1457	13.36	72.96	.0261	.0006	243.0	-.0037	.0093
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1239**	**175.6**	**.0039**	**412.6**	**395.8**	**.0080**	**-.0260**	**-.0007**	**.0112**
Stddev	.0044	.4	.0002	1.9	1.2	.0015	.0030	.0024	.0006
%RSD	3.510	.2350	5.339	.4534	.3053	18.45	11.56	330.3	5.547
#1	-.1270	175.3	.0040	413.9	394.9	.0070	-.0239	-.0024	.0117
#2	-.1209	175.9	.0037	411.3	396.7	.0091	-.0281	.0010	.0108
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**253.2**	**.0382**	**.0048**	**413.8**	**.0003**	**.0040**	**3.172**	**.0093**
Stddev	.4	.0205	.0047	.4	.0058	.0004	.008	.0048
%RSD	.1413	53.71	97.26	.0971	1788.	9.832	.2603	52.10
#1	252.9	.0237	.0081	413.5	-.0038	.0037	3.166	.0127
#2	253.4	.0528	.0015	414.1	.0044	.0043	3.178	.0059
Check ?	Chk Pass	None	None	None	None	None	None	None
Value Range								

Sample Name: CCVB3 Acquired: 11/24/2009 18:30:36 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2390.5	75100.	7987.4	416.34
Stddev	5.4	162.	29.5	.93
%RSD	.22594	.21597	.36979	.22357
#1	2394.3	75215.	8008.3	416.99
#2	2386.7	74986.	7966.5	415.68

Sample Name: CCB3 Acquired: 11/24/2009 18:34:07 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1076**	**-.0192**	**-.0300**	**.0038**	**.0094**	**.0008**	**-.0882**	**.0004**	**.0027**
Stddev	.0064	.0100	.0116	.0010	.0029	.0005	.2119	.0023	.0085
%RSD	5.921	52.03	38.80	27.42	31.18	66.41	240.3	602.9	313.2
#1	.1121	-.0121	-.0382	.0030	.0114	.0012	.0616	-.0012	.0087
#2	.1031	-.0262	-.0218	.0045	.0073	.0004	-.2380	.0020	-.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0077**	**.0249**	**.0048**	**-.0588**	**-.0377**	**-.0009**	**-.0059**	**-.0008**	**.0078**
Stddev	.0039	.0372	.0067	.4291	.0484	.0003	.0075	.0014	.0070
%RSD	50.72	149.4	140.6	729.2	128.1	40.67	128.2	170.8	89.61
#1	.0104	-.0014	.0000	-.3622	-.0035	-.0006	-.0006	-.0018	.0029
#2	.0049	.0512	.0095	.2446	-.0719	-.0011	-.0112	.0002	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-3.047**	**.0220**	**.0001**	**-.7668**	**-.0027**	**-.0011**	**.0046**	**.0065**
Stddev	.450	.0109	.0003	.2768	.0036	.0012	.0038	.0105
%RSD	14.76	49.29	254.8	36.09	133.8	109.2	82.70	161.9
#1	-3.365	.0144	.0003	-.9625	-.0053	-.0002	.0019	-.0009
#2	-2.729	.0297	-.0001	-.5711	-.0001	-.0019	.0072	.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB3 Acquired: 11/24/2009 18:34:07 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2357.3	75995.	7904.8	422.04
Stddev	53.0	401.	11.5	11.76
%RSD	2.2488	.52814	.14564	2.7857
#1	2394.8	76279.	7896.6	430.35
#2	2319.9	75712.	7912.9	413.72

Sample Name: K0910845-012 Acquired: 11/24/2009 18:36:50 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**396.0**	**.0004**	**.0214**	**2.248**	**.2811**	**.0604**	**553.1**	**2.513**	**.1371**
#1	395.9	-.0056	.0212	2.244	.2889	.0608	553.2	2.510	.1438
#2	396.1	.0065	.0216	2.252	.2733	.0600	552.9	2.515	.1303

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**1.610**	**855.9**	**2.105**	**644.4**	**27.43**	**-.0063**	**.5905**	**105.5**	**.0209**
#1	1.608	855.7	2.103	643.8	27.42	-.0051	.5899	105.5	.0017
#2	1.611	856.1	2.107	644.9	27.44	-.0075	.5911	105.4	.0401

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0019**	**1093.**	**.7988**	**>275.0**	**4.300**	**.0113**
#1	-.0043	1094.	.8007	981.6	4.309	.0142
#2	.0005	1092.	.7969	980.4	4.290	.0084

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2503.4**	**78876.**	**8493.1**	**409.83**
#1	2505.9	78780.	8488.3	409.52
#2	2500.8	78972.	8497.9	410.15

* dilute
[illegible]
11/25/09

Sample Name: K0910845-013 Acquired: 11/24/2009 18:40:05 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**373.5**	**.0069**	**.0508**	**3.523**	**.2456**	**.0711**	**733.7**	**2.657**	**.1560**
#1	374.3	.0037	.0198	3.524	.2542	.0707	733.8	2.651	.1587
#2	372.6	.0100	.0819	3.521	.2370	.0716	733.6	2.664	.1533

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**3.926**	**769.9**	**2.974**	**553.8**	**34.51**	**-.0018**	**.6041**	**114.8**	**.0407**
#1	3.931	770.4	2.973	554.7	34.39	-.0023	.6048	114.3	.0421
#2	3.922	769.5	2.976	552.9	34.62	-.0013	.6034	115.3	.0394

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0077**	**1213.**	**.6658**	**49.09**	**3.990**	**.0182**
#1	.0117	1218.	.6552	49.11	3.992	.0234
#2	.0036	1208.	.6765	49.08	3.988	.0130

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2484.5**	**77878.**	**8375.9**	**409.63**
#1	2483.5	78052.	8361.3	409.33
#2	2485.4	77703.	8390.5	409.92

Sample Name: K0910845-014 Acquired: 11/24/2009 18:43:30 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**312.7**	**-.0095**	**.1240**	**1.587**	**.2296**	**.0687**	**515.0**	**2.259**	**.1397**
#1	311.8	.0090	.1448	1.586	.2298	.0678	516.4	2.242	.1363
#2	313.6	-.0280	.1032	1.588	.2294	.0697	513.6	2.276	.1431

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**7.179**	**600.3**	**2.952**	**688.8**	**26.73**	**-.0040**	**2.389**	**183.4**	**.0135**
#1	7.182	600.2	2.950	690.2	26.56	-.0036	2.376	182.5	-.0263
#2	7.176	600.3	2.954	687.4	26.90	-.0043	2.401	184.2	.0534

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0137**	**3354.**	**.6121**	**219.2**	**2.845**	**.0115**
#1	.0129	3361.	.6073	219.1	2.841	.0131
#2	.0145	3346.	.6169	219.4	2.849	.0098

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2455.6**	**77128.**	**8292.6**	**400.48**
#1	2456.9	77181.	8299.6	400.00
#2	2454.4	77074.	8285.6	400.96

Sample Name: K0910845-015 Acquired: 11/24/2009 18:46:59 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**314.8**	**.0176**	**.0698**	**1.286**	**.2173**	**.0458**	**482.0**	**2.454**	**.1189**
#1	315.1	.0225	.0703	1.285	.2163	.0457	483.4	2.450	.1230
#2	314.6	.0128	.0693	1.286	.2183	.0459	480.6	2.457	.1149

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**2.249**	**608.9**	**1.750**	**558.3**	**18.00**	**-.0044**	**.9941**	**134.6**	**.0002**
#1	2.262	608.3	1.741	556.7	17.91	-.0062	.9878	133.8	-.0397
#2	2.236	609.5	1.760	559.8	18.10	-.0026	1.000	135.4	.0401

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0051**	**2072.**	**.5448**	**151.8**	**3.000**	**.0122**
#1	.0097	2065.	.5424	150.9	2.993	.0060
#2	.0006	2078.	.5473	152.6	3.006	.0184

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2467.3**	**77051.**	**8377.5**	**413.19**
#1	2469.8	77310.	8353.9	415.13
#2	2464.8	76793.	8401.1	411.25

Sample Name: K0910845-016 Acquired: 11/24/2009 18:50:25 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**541.7**	**-.0012**	**.1615**	**2.987**	**.3849**	**.1231**	**791.8**	**3.895**	**.1630**
#1	540.6	-.0112	.1829	2.989	.3876	.1233	792.1	3.913	.1643
#2	542.9	.0088	.1400	2.985	.3821	.1230	791.6	3.877	.1617

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**6.821**	**1072.**	**4.619**	**1041.**	**29.58**	**-.0019**	**5.171**	**180.1**	**.0412**
#1	6.806	1076.	4.613	1041.	29.50	-.0053	5.164	179.8	.0157
#2	6.836	1067.	4.625	1042.	29.65	.0015	5.178	180.3	.0668

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0058**	**3459.**	**1.362**	**>275.0**	**7.347**	**.0025**
#1	-.0031	3457.	1.352	1116.	7.342	.0040
#2	-.0084	3460.	1.373	1117.	7.352	.0010

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2543.3**	**79877.**	**8674.8**	**397.36**
#1	2544.6	79892.	8641.1	397.97
#2	2542.0	79862.	8708.5	396.75

* dilute
[illegible]
11/25/09

Sample Name: K0910845-017 Acquired: 11/24/2009 18:53:55 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**468.3**	**.0163**	**.1265**	**3.851**	**.3182**	**.1096**	**977.1**	**3.622**	**.1877**
#1	466.1	.0236	.1294	3.851	.3178	.1087	978.6	3.617	.1835
#2	470.5	.0091	.1236	3.852	.3186	.1105	975.6	3.626	.1919

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**8.308**	**909.7**	**4.304**	**593.8**	**43.25**	**-.0053**	**.8414**	**101.6**	**.0367**
#1	8.261	908.9	4.292	592.8	43.39	-.0077	.8463	101.1	.0571
#2	8.355	910.6	4.315	594.8	43.10	-.0028	.8365	102.1	.0164

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0168**	**948.6**	**.8416**	**>275.0**	**5.488**	**.0136**
#1	.0136	944.4	.8390	815.6	5.485	.0160
#2	.0201	952.9	.8443	822.5	5.490	.0111

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2502.7**	**79363.**	**8507.7**	**404.42**
#1	2506.3	79154.	8501.4	405.37
#2	2499.2	79573.	8514.0	403.47

* dilute
11/23/09

Sample Name: K0910845-018 Acquired: 11/24/2009 18:57:16 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**437.6**	**.0012**	**.0762**	**2.859**	**.2861**	**.0816**	**646.0**	**3.313**	**.1683**
#1	439.2	.0030	.1231	2.848	.2858	.0819	644.8	3.323	.1620
#2	436.0	-.0006	.0293	2.871	.2864	.0813	647.1	3.303	.1745

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**4.563**	**817.1**	**3.382**	**567.6**	**33.06**	**-.0034**	**.6481**	**128.7**	**.0097**
#1	4.586	815.4	3.371	567.5	33.06	-.0023	.6437	129.5	.0594
#2	4.539	818.9	3.394	567.8	33.06	-.0046	.6526	128.0	-.0400

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0093**	**1439.**	**.6966**	**126.8**	**4.558**	**.0139**
#1	.0080	1440.	.6988	126.5	4.561	.0200
#2	.0105	1438.	.6944	127.1	4.555	.0078

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2492.6**	**78834.**	**8542.1**	**410.18**
#1	2498.8	79212.	8573.1	411.31
#2	2486.5	78456.	8511.1	409.04

Sample Name: K0910845-019 Acquired: 11/24/2009 19:00:41 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**340.9**	**-.0031**	**-.0143**	**2.191**	**.2523**	**.0497**	**559.6**	**2.084**	**.1128**
#1	340.5	-.0186	-.0214	2.193	.2476	.0485	560.4	2.083	.1072
#2	341.4	.0123	-.0071	2.188	.2570	.0509	558.7	2.085	.1185

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**.6889**	**856.9**	**1.616**	**673.6**	**28.23**	**-.0061**	**.5378**	**129.2**	**-.0229**
#1	.6932	856.5	1.610	673.4	28.14	-.0066	.5371	128.4	-.0070
#2	.6846	857.4	1.622	673.9	28.32	-.0056	.5385	130.0	-.0387

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0036**	**2100.**	**.8511**	**>275.0**	**3.097**	**.0164**
#1	-.0018	2095.	.8511	692.9	3.092	.0140
#2	-.0054	2104.	.8510	693.9	3.102	.0187

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2467.5**	**77896.**	**8476.8**	**403.75**
#1	2471.3	77966.	8479.0	402.96
#2	2463.6	77825.	8474.5	404.54

* dilute
[illegible]
11/25/09

Sample Name: K0911038-MB Acquired: 11/24/2009 19:04:58 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	F .3146	-.0276	-.0905	.0000	.0099	-.0002	F .7254	.0049
#1	.2676	-.0202	-.1179	-.0007	.0035	.0007	1.046	-.0042
#2	.3617	-.0350	-.0631	.0008	.0162	-.0010	.4047	.0140

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	.0025	.0047	.0137	.0068	F .0110	.0004	-.0012	.0046
#1	-.0046	.0073	.0107	.0074	.0152	.0011	-.0032	.0037
#2	.0097	.0022	.0167	.0062	.0068	-.0003	.0009	.0056

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	-1.272	.0075	.0034	.3126	-.0016	.0231	.0028	.0086
#1	-1.706	.0511	.0079	.1421	-.0052	.0214	.0016	.0140
#2	-.8391	-.0361	-.0012	.4831	.0020	.0248	.0040	.0031

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.4	76825.	8059.4	437.84
#1	2429.4	76984.	8066.8	438.00
#2	2421.4	76666.	8051.9	437.67

Sample Name: LCSW Acquired: 11/24/2009 19:07:41 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: LCSW=0.05ml CICV-1,2,3 to 10ml w/ MB

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/Lk	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**178.5**	**21.43**	**33.51**	**34.99**	**14.57**	**11.36**	**290.8**	**9.234**	**20.37**
#1	179.2	21.42	33.53	35.25	14.64	11.34	293.1	9.250	20.35
#2	177.8	21.45	33.49	34.74	14.49	11.38	288.4	9.217	20.39

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**10.03**	**41.78**	**11.92**	**481.3**	**20.63**	**-.0025**	**21.13**	**311.4**	**32.15**
#1	10.09	41.97	11.87	485.0	20.71	-.0012	21.09	314.0	32.21
#2	9.968	41.58	11.96	477.6	20.55	-.0039	21.18	308.9	32.09

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**5.351**	**501.6**	**22.64**	**19.76**	**.0121**	**11.34**
#1	5.399	504.2	22.68	19.70	.0131	11.32
#2	5.302	499.0	22.59	19.82	.0111	11.37

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2406.9**	**76690.**	**8146.9**	**425.61**
#1	2413.7	76838.	8147.0	427.57
#2	2400.2	76542.	8146.8	423.64

CICV-1 Meth-79-E
-2 77-M
-3 77-L

Sample Name: CCVA4 Acquired: 11/24/2009 19:10:44 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.730**	**2.157**	**3.255**	**1.762**	**27.75**	**2.298**	**5.895**	**4.637**	**4.192**
Stddev	.019	.026	.004	.001	.09	.009	.137	.003	.020
%RSD	.2132	1.191	.1114	.0795	.3234	.3765	2.329	.0600	.4669
#1	8.743	2.175	3.258	1.763	27.68	2.292	5.798	4.639	4.178
#2	8.717	2.139	3.253	1.761	27.81	2.304	5.992	4.635	4.205
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**3.987**	**4.611**	**1.194**	**9.773**	**9.696**	**4.229**	**4.524**	**2.603**	**4.328**
Stddev	.001	.049	.006	.244	.171	.007	.004	.014	.012
%RSD	.0248	1.056	.5225	2.494	1.766	.1659	.1005	.5228	.2650
#1	3.988	4.645	1.199	9.945	9.817	4.224	4.527	2.594	4.320
#2	3.987	4.577	1.190	9.601	9.575	4.234	4.521	2.613	4.336
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**60.54**	**3.097**	**2.282**	**9.896**	**4.552**	**3.896**	**5.122**	**1.141**
Stddev	.85	.040	.007	.241	.013	.022	.001	.000
%RSD	1.397	1.288	.2951	2.431	.2838	.5711	.0241	.0065
#1	61.14	3.125	2.286	10.07	4.561	3.912	5.123	1.141
#2	59.94	3.068	2.277	9.726	4.543	3.880	5.121	1.141
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA4 Acquired: 11/24/2009 19:10:44 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2391.6	75951.	8045.5	428.51
Stddev	6.3	48.	26.3	.06
%RSD	.26263	.06316	.32649	.01430
#1	2396.1	75917.	8064.1	428.55
#2	2387.2	75985.	8026.9	428.46

Sample Name: CCVB4 Acquired: 11/24/2009 19:13:39 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**357.1**	**-.1468**	**13.20**	**70.37**	**.0234**	**-.0009**	**239.4**	**-.0040**	**.0032**
Stddev	1.7	.0227	.06	.83	.0018	.0005	.5	.0070	.0023
%RSD	.4678	15.43	.4437	1.176	7.697	63.77	.1910	175.1	69.82
#1	355.9	-.1308	13.16	69.78	.0247	-.0005	239.1	.0009	.0048
#2	358.3	-.1629	13.24	70.95	.0221	-.0012	239.7	-.0089	.0016
Check ? Value Range	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1412**	**173.5**	**.0015**	**409.8**	**389.9**	**.0094**	**-.0337**	**-.0013**	**.0078**
Stddev	.0055	.7	.0042	1.1	.6	.0001	.0100	.0001	.0003
%RSD	3.897	.4158	284.3	.2680	.1642	.8872	29.62	5.737	3.734
#1	-.1451	173.0	.0044	410.5	390.4	.0095	-.0407	-.0013	.0080
#2	-.1373	174.0	-.0015	409.0	389.5	.0094	-.0266	-.0014	.0075
Check ? Value Range	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**251.3**	**.0181**	**.0076**	**406.8**	**-.0119**	**.0017**	**3.134**	**.0088**
Stddev	1.4	.0580	.0000	.6	.0102	.0032	.002	.0080
%RSD	.5738	321.2	.3057	.1372	85.11	189.9	.0660	91.25
#1	252.3	-.0230	.0076	407.2	-.0191	-.0006	3.136	.0031
#2	250.3	.0591	.0076	406.4	-.0048	.0039	3.133	.0145
Check ? Value Range	Chk Pass	None	None	None	None	None	None	None

Sample Name: CCVB4 Acquired: 11/24/2009 19:13:39 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2371.7	74775.	8039.0	416.03
Stddev	.3	211.	29.9	1.01
%RSD	.01209	.28243	.37152	.24211
#1	2371.5	74626.	8060.1	416.75
#2	2371.9	74925.	8017.9	415.32

Sample Name: CCB4 Acquired: 11/24/2009 19:17:11 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2169**	**-.0203**	**-.0446**	**.0038**	**.0076**	**.0006**	**-.0053**	**.0009**	**.0006**
Stddev	.0387	.0060	.0514	.0011	.0066	.0010	.1181	.0078	.0006
%RSD	17.84	29.44	115.3	27.67	87.03	164.0	2222.	846.7	103.5
#1	.1896	-.0245	-.0082	.0031	.0122	.0013	-.0888	-.0046	.0002
#2	.2443	-.0161	-.0810	.0046	.0029	-.0001	.0782	.0064	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0107**	**.0240**	**.0053**	**.5145**	**-.0423**	**-.0002**	**-.0146**	**-.0004**	**.0044**
Stddev	.0075	.0060	.0010	.0417	.0429	.0009	.0086	.0025	.0009
%RSD	70.38	24.87	18.29	8.100	101.5	517.2	58.99	562.4	20.43
#1	.0054	.0197	.0059	.4850	-.0726	.0005	-.0085	.0013	.0050
#2	.0160	.0282	.0046	.5440	-.0119	-.0009	-.0206	-.0022	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-2.931**	**-.0087**	**.0079**	**-1.049**	**.0024**	**.0003**	**.0068**	**.0008**
Stddev	.737	.0222	.0006	.125	.0078	.0027	.0005	.0062
%RSD	25.14	255.8	7.805	11.91	321.6	872.1	7.368	725.2
#1	-3.452	.0070	.0075	-1.137	-.0031	-.0016	.0065	-.0035
#2	-2.410	-.0244	.0083	-.9607	.0079	.0022	.0072	.0052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB4 Acquired: 11/24/2009 19:17:11 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2392.9	75794.	7987.4	430.63
Stddev	1.5	131.	24.7	.44
%RSD	.06081	.17279	.30957	.10126
#1	2394.0	75702.	8004.9	430.94
#2	2391.9	75887.	7969.9	430.32

Sample Name: K0911038-001 Acquired: 11/24/2009 19:19:56 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**355.3**	**.0035**	**.0760**	**.6624**	**.2586**	**.0378**	**515.2**	**2.886**	**.1279**
#1	354.4	.0031	.0729	.6629	.2591	.0375	514.9	2.899	.1270
#2	356.2	.0040	.0792	.6619	.2581	.0380	515.6	2.872	.1289

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**1.888**	**485.3**	**2.096**	**777.1**	**10.82**	**.0042**	**.3891**	**233.2**	**.0102**
#1	1.890	484.2	2.091	779.0	10.79	.0050	.3859	233.7	.0204
#2	1.886	486.4	2.100	775.2	10.84	.0035	.3924	232.7	.0000

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0014**	**4392.**	**.8655**	**95.90**	**4.366**	**.0170**
#1	.0011	4402.	.8760	95.83	4.363	.0206
#2	.0018	4382.	.8551	95.97	4.369	.0133

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2488.4**	**78368.**	**8414.3**	**400.88**
#1	2496.0	78302.	8445.3	401.77
#2	2480.8	78435.	8383.2	399.98

Sample Name: K0911038-001D Acquired: 11/24/2009 19:23:16 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**361.5**	**.0035**	**.0507**	**.6476**	**.2742**	**.0366**	**529.7**	**2.885**	**.1288**
#1	362.1	-.0113	.0947	.6469	.2774	.0367	528.7	2.888	.1348
#2	360.8	.0183	.0067	.6482	.2710	.0364	530.7	2.883	.1229

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**1.622**	**488.7**	**2.015**	**826.0**	**10.83**	**.0027**	**.3951**	**254.4**	**-.0278**
#1	1.624	489.5	2.013	821.3	10.81	.0010	.3926	253.9	-.0243
#2	1.620	487.9	2.017	830.7	10.85	.0045	.3975	255.0	-.0313

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0003**	**4883.**	**.8789**	**104.6**	**4.186**	**.0083**
#1	.0015	4852.	.8780	104.2	4.184	.0085
#2	-.0021	4914.	.8798	105.1	4.188	.0081

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2498.1**	**78550.**	**8544.4**	**400.12**
#1	2503.9	78660.	8504.8	401.56
#2	2492.3	78439.	8584.0	398.68

Sample Name: K0911038-001L Acquired: 11/24/2009 19:26:48 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/5 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**69.56**	**-.0116**	**-.0328**	**.1390**	**.0637**	**.0075**	**108.4**	**.6004**	**.0241**
#1	69.35	-.0119	-.0074	.1365	.0513	.0077	108.8	.5945	.0235
#2	69.78	-.0114	-.0583	.1416	.0761	.0073	108.0	.6062	.0247

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/L
Avg	**.3860**	**102.7**	**.4110**	**156.0**	**2.314**	**-.0033**	**.0876**	**45.23**	**-.0295**
#1	.3908	102.6	.4030	155.2	2.315	-.0031	.0875	44.06	-.0200
#2	.3813	102.8	.4190	156.7	2.312	-.0034	.0876	46.40	-.0391

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0011**	**873.6**	**.1767**	**18.65**	**.9093**	**.0047**
#1	-.0017	871.7	.1807	18.59	.9110	.0060
#2	.0038	875.5	.1727	18.70	.9077	.0034

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2437.2**	**76605.**	**8081.9**	**426.38**
#1	2436.6	76715.	8058.9	426.89
#2	2437.8	76496.	8105.0	425.87

Sample Name: K0911038-001S Acquired: 11/24/2009 19:29:54 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: S=0.05ml CICV-1,2,3 to 10ml w/ K11038-1

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**530.0**	**21.00**	**33.34**	**34.94**	**14.62**	**10.58**	**781.3**	**11.73**	**19.18**
#1	530.1	21.06	33.40	35.10	14.66	10.61	783.1	11.75	19.22
#2	530.0	20.95	33.28	34.78	14.57	10.55	779.4	11.71	19.14

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**11.73**	**509.4**	**14.20**	**1247.**	**30.37**	**-.0009**	**20.04**	**544.5**	**30.94**
#1	11.77	510.4	14.16	1245.	30.40	-.0017	20.09	544.6	31.03
#2	11.70	508.4	14.25	1250.	30.34	-.0002	19.98	544.4	30.86

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**5.549**	**4819.**	**22.92**	**114.5**	**4.269**	**11.33**
#1	5.551	4794.	22.94	114.0	4.277	11.26
#2	5.547	4844.	22.91	114.9	4.262	11.41

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2481.9**	**78141.**	**8462.2**	**397.38**
#1	2482.5	78162.	8419.7	399.45
#2	2481.3	78120.	8504.7	395.31

CICV-1 Meth-79-E
-2 77-M
-3 77-L

Sample Name: K0911038-002 Acquired: 11/24/2009 19:33:17 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**337.9**	**.0755**	**.2340**	**7.020**	**.3896**	**.0422**	**2093.**	**2.908**	**.2952**
#1	337.2	.0992	.2357	7.037	.3971	.0419	2098.	2.913	.2958
#2	338.6	.0519	.2323	7.004	.3822	.0426	2087.	2.902	.2947

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**6.906**	**1076.**	**5.446**	**365.9**	**50.73**	**-.0112**	**1.157**	**35.92**	**.0451**
#1	6.894	1077.	5.434	366.9	50.82	-.0092	1.156	36.42	.0671
#2	6.918	1076.	5.459	364.8	50.63	-.0131	1.158	35.41	.0230

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0095**	**71.63**	**.8209**	**>275.0**	**4.000**	**.0204**
#1	.0086	71.56	.8233	1293.	4.002	.0146
#2	.0104	71.70	.8185	1305.	3.999	.0261

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2527.3**	**80065.**	**8615.7**	**409.10**
#1	2533.5	79891.	8606.3	410.77
#2	2521.1	80238.	8625.0	407.42

* dilute
uwmr
11/25/09

Sample Name: K0911038-003 Acquired: 11/24/2009 19:36:36 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**746.1**	**.0397**	**.1471**	**2.127**	**.5093**	**.1358**	**1070.**	**5.240**	**.2078**
R1	746.8	.0233	.1510	2.120	.5118	.1357	1071.	5.230	.2071
R2	745.4	.0560	.1432	2.133	.5068	.1358	1070.	5.249	.2086

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**5.843**	**1236.**	**5.591**	**1350.**	**32.39**	**-.0050**	**.8683**	**263.5**	**.0347**
R1	5.865	1237.	5.557	1352.	32.27	-.0032	.8628	262.9	.0307
R2	5.821	1235.	5.625	1348.	32.52	-.0067	.8737	264.1	.0387

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0059**	**4555.**	**1.747**	**>275.0**	**10.65**	**.0177**
R1	-.0012	4550.	1.737	778.3	10.62	.0223
R2	-.0106	4560.	1.758	785.2	10.68	.0130

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2575.4**	**81007.**	**8857.6**	**392.24**
R1	2578.9	81156.	8879.8	393.58
R2	2572.0	80859.	8835.4	390.89

* dilute
[illegible]
11/25/09

Sample Name: K0911038-004 Acquired: 11/24/2009 19:40:03 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**208.0**	**.0078**	**.1825**	**.5875**	**.1581**	**.0273**	**302.6**	**1.681**	**.0827**
#1	207.9	.0008	.1779	.5877	.1665	.0266	302.2	1.668	.0762
#2	208.0	.0147	.1871	.5873	.1497	.0279	303.0	1.694	.0891

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/L
Avg	**4.753**	**277.7**	**2.371**	**502.6**	**6.493**	**-.0012**	**.4391**	**144.6**	**.0058**
#1	4.783	277.7	2.367	501.2	6.442	.0014	.4415	145.8	.0124
#2	4.724	277.8	2.375	504.0	6.545	-.0037	.4367	143.5	-.0007

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0099**	**2612.**	**.5896**	**>275.0**	**2.531**	**.0019**
#1	.0083	2607.	.5895	323.0	2.519	-.0059
#2	.0115	2616.	.5896	326.0	2.542	.0097

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2444.4**	**77629.**	**8224.2**	**411.74**
#1	2451.2	78027.	8228.5	413.38
#2	2437.6	77232.	8219.8	410.09

* dilute volume 11/25/09

Sample Name: K0911038-005 Acquired: 11/24/2009 19:43:30 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**330.5**	**.0118**	**-.0122**	**2.166**	**.2299**	**.0563**	**446.1**	**2.480**	**.1339**
#1	329.4	.0134	-.0275	2.168	.2319	.0556	446.2	2.477	.1295
#2	331.6	.0102	.0032	2.163	.2278	.0571	446.1	2.483	.1382

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**2.935**	**599.5**	**1.871**	**560.2**	**25.35**	**-.0022**	**6.670**	**134.9**	**-.0021**
#1	2.925	600.4	1.855	560.0	25.43	.0004	6.638	135.6	.0127
#2	2.945	598.6	1.888	560.4	25.27	-.0049	6.703	134.1	-.0170

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0043**	**2250.**	**.5246**	**255.0**	**3.671**	**.0176**
#1	.0082	2253.	.5225	253.8	3.667	.0055
#2	.0005	2246.	.5266	256.2	3.674	.0297

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2461.4**	**77945.**	**8232.7**	**408.27**
#1	2467.7	77758.	8222.2	409.86
#2	2455.1	78133.	8243.2	406.69

Sample Name: K0911038-006 Acquired: 11/24/2009 19:46:55 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**209.3**	**.0020**	**-.0001**	**1.533**	**.1531**	**.0303**	**379.7**	**1.423**	**.0809**
#1	209.2	.0110	.0551	1.538	.1551	.0295	382.1	1.429	.0820
#2	209.5	-.0069	-.0552	1.528	.1512	.0312	377.3	1.417	.0798

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**1.073**	**428.1**	**1.145**	**466.8**	**15.63**	**-.0045**	**.3221**	**119.6**	**.0147**
#1	1.074	429.5	1.144	466.8	15.63	-.0047	.3247	119.2	.0407
#2	1.072	426.7	1.147	466.8	15.63	-.0043	.3195	120.0	-.0113

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0009**	**2306.**	**.3413**	**189.7**	**1.668**	**.0191**
#1	-.0002	2309.	.3388	189.1	1.668	.0167
#2	.0021	2303.	.3439	190.3	1.667	.0216

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2431.1**	**77059.**	**8138.4**	**411.35**
#1	2435.9	77096.	8126.6	412.14
#2	2426.3	77023.	8150.2	410.55

Sample Name: K0911038-007 Acquired: 11/24/2009 19:50:21 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**190.8**	**.0091**	**.0996**	**.6182**	**.1434**	**.0218**	**427.9**	**1.539**	**.0710**
#1	191.1	.0018	.1068	.6203	.1321	.0221	429.7	1.529	.0727
#2	190.5	.0164	.0925	.6161	.1547	.0216	426.0	1.549	.0694

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**2.603**	**377.5**	**1.528**	**591.7**	**12.54**	**-.0018**	**.2953**	**171.1**	**.0077**
#1	2.620	378.9	1.520	592.0	12.50	.0015	.2979	170.8	-.0003
#2	2.587	376.0	1.537	591.4	12.57	-.0051	.2926	171.4	.0157

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0092**	**3385.**	**.4131**	**>275.0**	**2.051**	**.0184**
#1	.0102	3383.	.4135	348.4	2.045	.0092
#2	.0083	3387.	.4128	351.7	2.057	.0275

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2408.4**	**76371.**	**8105.3**	**403.81**
#1	2416.4	76418.	8073.1	406.03
#2	2400.4	76324.	8137.5	401.58

*dilute
[illegible]
11/25/09

Sample Name: CCVA5 Acquired: 11/24/2009 19:53:52 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.805**	**2.103**	**3.192**	**1.745**	**27.90**	**2.288**	**6.019**	**4.580**	**4.123**
Stddev	.106	.023	.036	.008	.02	.007	.046	.004	.021
%RSD	1.199	1.086	1.142	.4772	.0797	.2919	.7601	.0831	.4987
#1	8.730	2.087	3.166	1.751	27.91	2.283	5.986	4.577	4.108
#2	8.879	2.119	3.217	1.739	27.88	2.292	6.051	4.582	4.137
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**3.975**	**4.499**	**1.185**	**9.888**	**9.335**	**4.174**	**4.397**	**2.567**	**4.299**
Stddev	.010	.047	.002	.861	.009	.024	.020	.005	.006
%RSD	.2587	1.050	.1988	8.708	.0932	.5722	.4545	.2153	.1300
#1	3.967	4.532	1.187	9.280	9.329	4.157	4.382	2.563	4.295
#2	3.982	4.465	1.183	10.50	9.341	4.191	4.411	2.571	4.303
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**59.12**	**3.032**	**2.235**	**9.590**	**4.483**	**3.869**	**5.089**	**1.115**
Stddev	.07	.027	.009	.295	.024	.003	.011	.012
%RSD	.1268	.8871	.4238	3.075	.5275	.0752	.2236	1.114
#1	59.18	3.013	2.241	9.382	4.466	3.871	5.081	1.106
#2	59.07	3.051	2.228	9.799	4.499	3.867	5.097	1.124
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA5 Acquired: 11/24/2009 19:53:52 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2396.4	76673.	7902.6	434.25
Stddev	6.3	249.	1.8	1.58
%RSD	.26307	.32419	.02300	.36475
#1	2400.8	76849.	7903.9	435.37
#2	2391.9	76498.	7901.3	433.13

Sample Name: CCVB5 Acquired: 11/24/2009 19:56:47 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**358.9**	**-.1491**	**13.01**	**70.62**	**.0154**	**-.0003**	**238.4**	**.0071**	**.0094**
Stddev	1.7	.0009	.02	.55	.0036	.0001	1.0	.0060	.0004
%RSD	.4860	.6208	.1415	.7781	23.63	33.44	.4042	84.02	3.943
#1	357.7	-.1484	12.99	70.23	.0129	-.0003	237.7	.0113	.0097
#2	360.2	-.1497	13.02	71.01	.0180	-.0002	239.1	.0029	.0092
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1335**	**172.8**	**.0017**	**413.2**	**377.6**	**.0095**	**-.0281**	**-.0005**	**.0134**
Stddev	.0041	.1	.0009	.1	.2	.0005	.0138	.0021	.0064
%RSD	3.092	.0604	51.28	.0147	.0406	5.658	49.11	461.4	47.29
#1	-.1306	172.8	.0024	413.2	377.8	.0092	-.0379	.0010	.0179
#2	-.1364	172.9	.0011	413.3	377.5	.0099	-.0184	-.0019	.0089
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**244.5**	**.0080**	**.0023**	**395.0**	**-.0096**	**.0018**	**3.071**	**.0108**
Stddev	1.0	.0047	.0033	.8	.0046	.0039	.004	.0045
%RSD	.4044	58.64	143.7	.2150	47.83	222.2	.1146	41.80
#1	245.2	.0047	.0046	395.6	-.0129	.0046	3.073	.0076
#2	243.8	.0114	.0000	394.4	-.0064	-.0010	3.069	.0139
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Sample Name: CCVB5 Acquired: 11/24/2009 19:56:47 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2348.9	75097.	7820.2	416.88
Stddev	8.5	16.	39.2	2.40
%RSD	.35987	.02168	.50064	.57481
#1	2354.8	75109.	7847.9	418.57
#2	2342.9	75086.	7792.5	415.18

Sample Name: CCB5 Acquired: 11/24/2009 20:00:18 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2438**	**-.0059**	**-.0181**	**.0067**	**.0058**	**.0003**	**.0588**	**.0049**	**.0071**
Stddev	.0637	.0101	.0021	.0021	.0030	.0006	.1120	.0081	.0025
%RSD	26.15	171.3	11.44	31.24	51.45	174.4	190.4	164.9	34.88
#1	.1987	.0013	-.0196	.0081	.0080	-.0001	.1381	.0106	.0088
#2	.2889	-.0131	-.0166	.0052	.0037	.0007	-.0204	-.0008	.0053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0098**	**.0142**	**-.0045**	**.4587**	**-.0426**	**.0019**	**-.0191**	**.0010**	**.0024**
Stddev	.0106	.0047	.0018	.3334	.0342	.0001	.0015	.0008	.0005
%RSD	108.4	32.86	40.38	72.69	80.35	7.850	7.990	83.87	18.63
#1	.0023	.0109	-.0058	.2229	-.0184	.0020	-.0180	.0016	.0021
#2	.0172	.0175	-.0032	.6945	-.0668	.0017	-.0201	.0004	.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-1.580**	**-.0017**	**.0018**	**.2711**	**.0017**	**.0051**	**.0034**	**.0085**
Stddev	.500	.0316	.0021	.3658	.0084	.0015	.0032	.0004
%RSD	31.64	1902.	116.5	134.9	488.6	29.14	93.04	4.270
#1	-1.933	-.0240	.0033	.5298	.0076	.0041	.0057	.0082
#2	-1.227	.0207	.0003	.0124	-.0042	.0062	.0012	.0087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB5 Acquired: 11/24/2009 20:00:18 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2379.9	76470.	7864.2	434.57
Stddev	.4	225.	2.2	1.21
%RSD	.01721	.29487	.02816	.27770
#1	2380.1	76310.	7862.6	433.71
#2	2379.6	76629.	7865.8	435.42

Sample Name: K0911038-008 Acquired: 11/24/2009 20:03:02 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**181.6**	**-.0051**	**.0182**	**.7200**	**.1342**	**.0175**	**405.8**	**1.175**	**.0589**
#1	182.5	-.0222	.0208	.7233	.1318	.0178	406.9	1.183	.0624
#2	180.7	.0121	.0156	.7168	.1365	.0172	404.7	1.166	.0554

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**.7397**	**312.6**	**.7741**	**677.7**	**9.890**	**-.0017**	**.2174**	**186.6**	**.0350**
#1	.7394	312.7	.7725	679.3	9.877	-.0051	.2155	186.0	.0147
#2	.7401	312.4	.7758	676.0	9.902	.0017	.2193	187.3	.0554

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0087**	**3797.**	**.2898**	**214.1**	**1.496**	**.0087**
#1	.0084	3807.	.2927	213.8	1.501	.0014
#2	.0089	3786.	.2869	214.4	1.491	.0160

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2408.5**	**76724.**	**8132.1**	**407.14**
#1	2414.3	76704.	8118.7	408.13
#2	2402.7	76743.	8145.5	406.15

Sample Name: K0911038-009 Acquired: 11/24/2009 20:06:17 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**418.5**	**-.0202**	**.0945**	**5.316**	**.3159**	**.0755**	**1444.**	**2.245**	**.1970**
#1	420.5	-.0236	.1290	5.310	.3246	.0748	1443.	2.236	.1963
#2	416.6	-.0169	.0599	5.323	.3072	.0762	1446.	2.253	.1976

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**6.800**	**905.1**	**5.627**	**532.2**	**24.71**	**-.0058**	**.7863**	**44.26**	**.0371**
#1	6.818	906.0	5.615	532.6	24.63	-.0093	.7839	43.93	.0417
#2	6.782	904.2	5.640	531.9	24.78	-.0024	.7886	44.60	.0324

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0017**	**111.1**	**.7359**	**>275.0**	**3.676**	**.0046**
#1	-.0013	111.5	.7271	389.6	3.663	.0031
#2	-.0021	110.8	.7448	391.8	3.688	.0061

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2470.3**	**79601.**	**8348.4**	**413.79**
#1	2476.0	79667.	8345.2	414.10
#2	2464.6	79536.	8351.5	413.47

xdilute
[illegible]
11/25/09

Sample Name: K0911121-MB Acquired: 11/24/2009 20:10:29 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	F .1533	-.0009	-.0590	.0008	.0061	.0010	F .7258	-.0125
#1	.1283	.0125	-.0481	.0011	.0161	.0001	.7792	-.0230
#2	.1782	-.0143	-.0700	.0005	-.0038	.0019	.6724	-.0019

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	.0001	-.0079	.0291	.0050	F -.0090	.0003	-.0002	.0076
#1	-.0077	-.0037	.0276	.0008	.0023	-.0009	-.0020	.0102
#2	.0079	-.0121	.0307	.0091	-.0203	.0016	.0015	.0050

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	-2.159	-.0088	-.0004	2.323	-.0082	.0126	.0004	.0120
#1	-1.549	-.0110	.0013	2.501	-.0086	.0104	.0012	.0108
#2	-2.768	-.0067	-.0022	2.144	-.0078	.0148	-.0004	.0132

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2427.9	77592.	7920.7	444.58
#1	2432.6	77516.	7911.5	446.28
#2	2423.1	77669.	7929.9	442.88

Sample Name: LCSW Acquired: 11/24/2009 20:13:12 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: LCSW=0.05ml CICV-1,2,3 to 10ml w/ MB

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/Lk	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**181.0**	**21.22**	**32.99**	**35.43**	**14.58**	**11.32**	**295.0**	**9.307**	**20.28**
#1	182.1	21.17	33.10	35.48	14.58	11.32	295.6	9.305	20.28
#2	180.0	21.28	32.87	35.38	14.58	11.33	294.5	9.308	20.28

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**10.01**	**42.17**	**11.80**	**478.8**	**20.76**	**-.0022**	**21.07**	**310.1**	**31.58**
#1	10.07	42.16	11.82	479.7	20.70	-.0029	21.07	310.1	31.70
#2	9.959	42.17	11.78	477.8	20.82	-.0016	21.08	310.1	31.45

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**5.330**	**498.0**	**22.75**	**19.72**	**.0075**	**11.18**
#1	5.339	499.1	22.70	19.75	.0054	11.19
#2	5.321	496.9	22.79	19.69	.0095	11.17

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2397.5**	**76573.**	**7993.1**	**426.47**
#1	2403.5	76811.	8008.7	426.94
#2	2391.5	76335.	7977.5	426.00

CICV-1 Meth-79-E
-2 77-M
-3 77-L

Sample Name: K0911121-001 Acquired: 11/24/2009 20:16:16 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**310.5**	**.0909**	**.0853**	**1.553**	**.2138**	**.0685**	**850.5**	**2.233**	**.1246**
#1	309.5	.1133	.0817	1.550	.2161	.0687	849.1	2.241	.1256
#2	311.6	.0686	.0889	1.555	.2115	.0683	851.9	2.224	.1236

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**4.803**	**544.2**	**2.791**	**817.4**	**19.98**	**-.0041**	**1.054**	**114.6**	**.0656**
#1	4.794	542.9	2.794	818.0	20.06	-.0049	1.059	114.6	.0397
#2	4.813	545.6	2.788	816.7	19.90	-.0034	1.050	114.6	.0914

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.1248**	**1210.**	**.6031**	**>275.0**	**3.292**	**.0135**
#1	.1368	1212.	.6092	576.6	3.297	.0128
#2	.1127	1209.	.5971	576.2	3.286	.0143

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2454.2**	**77989.**	**8246.8**	**409.38**
#1	2454.0	77920.	8275.5	408.30
#2	2454.5	78058.	8218.1	410.46

*dilute
[illegible]
11/25/09

Sample Name: K0911121-001D Acquired: 11/24/2009 20:19:40 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**362.7**	**.0083**	**.0927**	**1.810**	**.2598**	**.0784**	**975.1**	**2.590**	**.1423**
#1	362.3	.0036	.0865	1.813	.2552	.0772	977.9	2.609	.1459
#2	363.0	.0130	.0989	1.807	.2643	.0797	972.2	2.572	.1388

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**5.575**	**639.5**	**3.305**	**941.8**	**23.27**	**-.0090**	**1.269**	**135.5**	**.0002**
#1	5.561	641.8	3.307	942.1	23.38	-.0071	1.265	136.5	-.0431
#2	5.588	637.1	3.304	941.4	23.16	-.0108	1.272	134.4	.0434

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0195**	**1416.**	**.6874**	**>275.0**	**3.842**	**.0100**
#1	.0173	1416.	.6956	682.0	3.836	.0150
#2	.0218	1417.	.6791	686.4	3.847	.0050

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2449.6**	**78245.**	**8259.8**	**404.25**
#1	2456.6	78139.	8227.9	404.25
#2	2442.7	78351.	8291.7	404.25

* dilute
[illegible]
11/25/09

Sample Name: K0911121-001L Acquired: 11/24/2009 20:23:03 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/5 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**61.15**	**.0244**	**-.0220**	**.3251**	**.0514**	**.0135**	**179.0**	**.4605**	**.0273**
#1	61.46	.0282	-.0600	.3258	.0563	.0135	179.1	.4619	.0309
#2	60.83	.0206	.0160	.3244	.0466	.0136	178.9	.4592	.0236

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/L
Avg	**.9636**	**115.1**	**.5443**	**163.6**	**4.209**	**-.0047**	**.2251**	**22.43**	**-.0117**
#1	.9637	114.8	.5449	163.4	4.201	-.0040	.2226	22.04	-.0094
#2	.9634	115.3	.5436	163.8	4.216	-.0055	.2276	22.82	-.0140

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0022**	**240.0**	**.1141**	**116.7**	**.6824**	**.0063**
#1	.0033	239.6	.1212	116.6	.6826	.0097
#2	.0012	240.3	.1071	116.7	.6823	.0028

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2378.3**	**76134.**	**7941.6**	**426.98**
#1	2377.5	76344.	7951.3	426.18
#2	2379.0	75923.	7931.9	427.77

* dilute [illegible] 11/25/09

Sample Name: K0911121-001S Acquired: 11/24/2009 20:26:08 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: S=0.05ml CICV-1,2,3 to 10ml w/ K11121-1

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**479.0**	**20.69**	**32.55**	**34.66**	**14.25**	**10.78**	**1106.**	**10.84**	**19.10**
#1	479.3	20.68	32.46	34.69	14.23	10.78	1105.	10.84	19.05
#2	478.7	20.70	32.63	34.64	14.27	10.78	1107.	10.84	19.16

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**14.39**	**572.8**	**14.66**	**1256.**	**38.63**	**-.0044**	**20.77**	**411.0**	**30.45**
#1	14.40	571.7	14.62	1260.	38.52	-.0042	20.76	412.2	30.37
#2	14.39	574.0	14.69	1253.	38.73	-.0046	20.77	409.8	30.53

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**5.395**	**1660.**	**21.97**	**>275.0**	**3.221**	**11.06**
#1	5.417	1663.	21.97	583.2	3.220	11.04
#2	5.373	1657.	21.97	584.9	3.222	11.08

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2429.7**	**78076.**	**8202.7**	**403.72**
#1	2431.7	78008.	8228.1	404.83
#2	2427.7	78145.	8177.3	402.60

x dilute
[illegible] 11/25/09

CICV-1 Met1-79-E
-2 71-M
-3 71-L

Sample Name: K0911121-002 Acquired: 11/24/2009 20:29:21 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**305.2**	**.0810**	**.0146**	**.9829**	**.2199**	**.0385**	**471.2**	**1.602**	**.0910**
#1	305.9	.0834	.0149	.9810	.2171	.0383	470.7	1.603	.0964
#2	304.4	.0786	.0143	.9848	.2228	.0386	471.6	1.602	.0856

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**.4019**	**480.8**	**1.172**	**761.2**	**9.905**	**-.0057**	**.7677**	**171.5**	**.4137**
#1	.4000	480.7	1.167	761.5	9.884	-.0058	.7655	170.6	.4506
#2	.4039	480.8	1.177	760.9	9.926	-.0056	.7699	172.5	.3769

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0005**	**3113.**	**.5936**	**>275.0**	**2.397**	**.0090**
#1	-.0025	3114.	.5806	625.8	2.397	.0044
#2	.0015	3112.	.6065	627.0	2.397	.0136

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2401.9**	**77591.**	**8218.5**	**403.75**
#1	2409.9	77831.	8221.9	405.51
#2	2393.9	77350.	8215.1	401.98

* dilute
[illegible]
11/25/09

Sample Name: K0911121-003 Acquired: 11/24/2009 20:32:47 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**777.0**	**.0575**	**.0446**	**3.081**	**.5636**	**.1517**	**9000.**	**9.522**	**.2330**
#1	780.2	.0663	.0225	3.074	.5657	.1510	9069.	9.522	.2324
#2	773.7	.0488	.0667	3.089	.5615	.1523	8932.	9.522	.2335

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**.2363**	**1179.**	**4.797**	**2866.**	**34.45**	**-.0078**	**2.815**	**182.5**	**.3600**
#1	.2363	1178.	4.794	2864.	34.57	-.0081	2.800	181.3	.3882
#2	.2362	1179.	4.800	2868.	34.33	-.0074	2.830	183.6	.3317

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0058**	**2273.**	**2.750**	**199.0**	**10.01**	**.0037**
#1	-.0047	2258.	2.783	199.2	10.03	-.0028
#2	-.0069	2289.	2.718	198.7	9.984	.0103

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2375.3**	**76571.**	**8418.9**	**362.77**
#1	2385.1	76373.	8394.0	362.71
#2	2365.5	76769.	8443.9	362.83

Sample Name: CCVA6 Acquired: 11/24/2009 20:36:26 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.733**	**2.071**	**3.106**	**1.748**	**27.50**	**2.286**	**6.154**	**4.532**
Stddev	.019	.011	.001	.001	.21	.004	.027	.001
%RSD	.2163	.5258	.0168	.0711	.7798	.1859	.4372	.0196
#1	8.719	2.063	3.106	1.747	27.35	2.283	6.173	4.533
#2	8.746	2.079	3.106	1.749	27.66	2.289	6.135	4.531
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**4.090**	**3.951**	**4.474**	**1.166**	**9.946**	**9.440**	F **4.127**	**4.380**
Stddev	.004	.028	.095	.015	.897	.025	.001	.037
%RSD	.0885	.7069	2.120	1.308	9.014	.2627	.0208	.8532
#1	4.088	3.932	4.541	1.155	10.58	9.457	4.127	4.406
#2	4.093	3.971	4.407	1.177	9.312	9.422	4.126	4.353
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Fail	Chk Pass
Value							4.600	
Range							-10.00%	

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**2.569**	**4.287**	**57.90**	**3.000**	**2.193**	**10.44**	**4.452**	**3.820**
Stddev	.008	.009	.10	.040	.006	.30	.025	.004
%RSD	.3239	.2042	.1772	1.330	.2985	2.856	.5708	.0907
#1	2.563	4.280	57.82	2.972	2.189	10.23	4.470	3.817
#2	2.575	4.293	57.97	3.029	2.198	10.65	4.434	3.822
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA6 Acquired: 11/24/2009 20:36:26 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**5.066**	**1.089**
Stddev	.002	.005
%RSD	.0316	.4653
#1	5.067	1.092
#2	5.065	1.085
Check ?	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	**2354.7**	**76257.**	**7853.8**	**432.42**
Stddev	2.6	439.	5.6	.07
%RSD	.11024	.57569	.07109	.01635
#1	2352.8	75947.	7857.8	432.37
#2	2356.5	76568.	7849.9	432.47

Sample Name: CCVB6 Acquired: 11/24/2009 20:39:22 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**357.0**	**-.1239**	**12.78**	**70.47**	**.0195**	**-.0004**	**233.1**	**.0075**	**.0119**
Stddev	2.6	.0133	.03	.06	.0045	.0006	.2	.0045	.0046
%RSD	.7162	10.77	.2067	.0895	22.90	163.9	.0645	59.73	38.33
#1	355.2	-.1145	12.77	70.51	.0163	.0001	233.0	.0043	.0152
#2	358.8	-.1334	12.80	70.42	.0226	-.0008	233.2	.0107	.0087
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1371**	**169.4**	**-.0008**	**409.1**	**372.9**	**.0089**	**-.0322**	**.0036**	**.0093**
Stddev	.0072	.5	.0021	1.7	1.4	.0008	.0127	.0013	.0033
%RSD	5.232	.2893	258.3	.4257	.3661	8.482	39.35	36.88	35.86
#1	-.1320	169.8	.0007	407.9	371.9	.0084	-.0233	.0027	.0069
#2	-.1421	169.1	-.0023	410.3	373.8	.0094	-.0412	.0045	.0116
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**243.2**	**.0079**	**.0050**	**391.8**	**-.0042**	**.0058**	**3.000**	**.0066**
Stddev	.8	.0120	.0006	2.3	.0025	.0021	.010	.0082
%RSD	.3133	152.9	12.66	.5970	59.41	35.96	.3431	124.5
#1	242.7	-.0006	.0055	390.1	-.0060	.0043	2.993	.0008
#2	243.8	.0164	.0046	393.4	-.0025	.0072	3.008	.0124
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Sample Name: CCVB6 Acquired: 11/24/2009 20:39:22 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2345.1	75394.	7844.4	419.95
Stddev	.6	657.	45.1	.28
%RSD	.02564	.87158	.57557	.06720
#1	2345.5	74929.	7812.5	419.75
#2	2344.6	75859.	7876.3	420.15

Sample Name: CCB6 Acquired: 11/24/2009 20:42:53 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2542**	**-.0055**	**-.0521**	**.0064**	**.0144**	**-.0006**	**.1830**	**.0002**	**.0080**
Stddev	.0581	.0036	.0129	.0001	.0000	.0008	.0180	.0106	.0038
%RSD	22.87	66.82	24.80	1.465	.0238	131.8	9.827	4327.	47.14
#1	.2953	-.0080	-.0612	.0063	.0144	.0000	.1702	-.0072	.0106
#2	.2131	-.0029	-.0430	.0064	.0144	-.0012	.1957	.0077	.0053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0081**	**.0196**	**.0032**	**-.2745**	**.0561**	**.0004**	**-.0273**	**.0007**	**.0077**
Stddev	.0006	.0129	.0065	.3650	.0990	.0004	.0118	.0015	.0015
%RSD	7.346	65.63	201.7	132.9	176.4	107.5	43.23	209.0	19.70
#1	.0085	.0287	.0079	-.0165	.1261	.0007	-.0190	.0017	.0088
#2	.0077	.0105	-.0014	-.5326	-.0139	.0001	-.0357	-.0003	.0066
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-2.623**	**.0239**	**.0119**	**.2171**	**-.0015**	**-.0044**	**.0054**	**.0059**
Stddev	.587	.0007	.0020	.0465	.0042	.0030	.0039	.0096
%RSD	22.37	2.947	17.13	21.43	278.0	68.38	72.17	162.9
#1	-3.038	.0244	.0105	.1842	.0015	-.0023	.0082	-.0009
#2	-2.208	.0234	.0133	.2500	-.0045	-.0065	.0026	.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

ample Name: CCB6 Acquired: 11/24/2009 20:42:53 Type: QC
lethod: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
ser: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
omment:

t. Std.	Y_2243	Y_3600	Y_3600-2	In2306
nits	Cts/S	Cts/S	Cts/S	Cts/S
vg	2366.1	76770.	7906.9	437.58
tddev	2.5	86.	95.5	.82
RSD	.10723	.11198	1.2079	.18637
1	2364.3	76830.	7974.4	437.00
2	2367.9	76709.	7839.4	438.15

Sample Name: K0911121-004 Acquired: 11/24/2009 20:45:37 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**330.1**	**-.0203**	**.0214**	**1.755**	**.2335**	**.0458**	**543.8**	**2.194**	**.1145**
#1	328.2	-.0247	.0439	1.752	.2316	.0451	541.3	2.199	.1151
#2	332.1	-.0160	-.0012	1.758	.2354	.0465	546.4	2.188	.1138

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**.8574**	**616.8**	**1.487**	**725.2**	**15.89**	**-.0066**	**.6891**	**150.4**	**.2862**
#1	.8620	616.4	1.484	723.7	15.87	-.0081	.6916	150.5	.2858
#2	.8527	617.1	1.490	726.8	15.92	-.0052	.6866	150.3	.2867

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0028**	**2523.**	**.5719**	**>275.0**	**3.023**	**.0214**
#1	-.0020	2520.	.5753	430.4	3.021	.0230
#2	-.0036	2526.	.5685	431.0	3.025	.0197

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2436.8**	**78323.**	**8240.3**	**409.41**
#1	2440.0	78333.	8258.1	409.58
#2	2433.6	78313.	8222.4	409.23

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11/25/09

Sample Name: K0911121-005 Acquired: 11/24/2009 20:49:03 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**1868.**	**.0164**	**.2617**	**6.146**	**1.167**	**.3129**	**1479.**	**11.98**	**.4239**
#1	1862.	.0246	.2710	6.146	1.173	.3131	1479.	12.00	.4283
#2	1874.	.0081	.2524	6.146	1.161	.3128	1480.	11.96	.4195

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**10.66**	**2733.**	**17.19**	**1842.**	**58.90**	**-.0151**	**2.878**	**322.9**	**.0275**
#1	10.64	2725.	17.21	1847.	59.01	-.0134	2.869	324.0	.0361
#2	10.68	2741.	17.17	1838.	58.78	-.0167	2.886	321.8	.0190

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0063**	**2175.**	**3.205**	**>275.0**	**19.94**	**.0059**
#1	-.0083	2180.	3.213	1975.	19.98	.0157
#2	-.0043	2171.	3.197	1971.	19.90	-.0039

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2823.5**	**91120.**	**9725.4**	**391.06**
#1	2821.5	90870.	9756.8	390.76
#2	2825.5	91369.	9694.0	391.36

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[illegible]
11/25/09

Sample Name: K0911121-006 Acquired: 11/24/2009 20:52:27 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**240.3**	**-.0095**	**.0319**	**2.936**	**.1847**	**.0593**	**548.9**	**1.696**	**.1013**
#1	240.5	-.0235	.0294	2.938	.1811	.0597	550.2	1.697	.0996
#2	240.2	.0045	.0345	2.933	.1882	.0588	547.6	1.695	.1031

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**3.936**	**477.7**	**2.214**	**297.7**	**25.65**	**-.0080**	**.4350**	**48.15**	**.0414**
#1	3.950	477.7	2.205	298.5	25.63	-.0076	.4294	48.71	.0501
#2	3.922	477.8	2.222	296.9	25.68	-.0084	.4407	47.60	.0327

Elem	Ag3280	Na5895	V_2924	Zn2062*	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0045**	**200.1**	**.3799**	**>275.0**	**1.727**	**.0105**
#1	.0069	201.3	.3800	590.8	1.726	.0041
#2	.0022	198.8	.3798	592.4	1.728	.0169

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2417.4**	**78586.**	**8213.8**	**420.95**
#1	2414.9	78682.	8212.8	421.95
#2	2420.0	78489.	8214.8	419.96

* dilute
[illegible]
11/25/09

Sample Name: K0911121-007 Acquired: 11/24/2009 20:55:52 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**993.9**	**.0203**	**.2378**	**4.366**	**.6624**	**.2224**	**1099.**	**7.257**	**.2695**
#1	997.6	.0071	.2520	4.362	.6617	.2224	1097.	7.282	.2694
#2	990.1	.0334	.2236	4.370	.6630	.2225	1100.	7.231	.2695

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**10.73**	**1537.**	**8.415**	**1462.**	**35.15**	**-.0073**	**1.199**	**261.8**	**.0080**
#1	10.72	1537.	8.394	1465.	35.26	-.0057	1.192	261.6	.0070
#2	10.73	1537.	8.436	1460.	35.04	-.0090	1.207	262.1	.0090

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0051**	**3564.**	**1.781**	**>275.0**	**15.09**	**.0071**
#1	-.0110	3566.	1.793	601.5	15.12	.0058
#2	.0008	3562.	1.770	603.5	15.07	.0084

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2596.7**	**84250.**	**8986.7**	**392.79**
#1	2598.0	84036.	9014.4	392.57
#2	2595.4	84465.	8958.9	393.01

* dilute
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11/25/09

Sample Name: K0911121-008 Acquired: 11/24/2009 20:59:17 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**412.9**	**-.0035**	**.0431**	**5.944**	**.2752**	**.1002**	**719.7**	**1.583**	**.2560**
#1	412.1	-.0277	.0539	5.941	.2771	.0996	721.2	1.589	.2519
#2	413.7	.0206	.0322	5.946	.2733	.1007	718.1	1.576	.2601

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**4.448**	**1022.**	**4.121**	**287.8**	**108.0**	**-.0010**	**1.056**	**34.42**	**.0341**
#1	4.463	1025.	4.091	288.2	107.5	-.0032	1.055	33.03	.0331
#2	4.433	1020.	4.152	287.4	108.4	.0013	1.057	35.81	.0351

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0129**	**78.73**	**.9973**	**244.6**	**5.204**	**.0507**
#1	.0119	78.80	1.000	243.6	5.198	.0506
#2	.0139	78.66	.9943	245.6	5.210	.0508

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2477.6**	**80712.**	**8346.6**	**423.23**
#1	2481.4	80680.	8310.3	423.89
#2	2473.8	80743.	8383.0	422.57

Sample Name: K0911121-009 Acquired: 11/24/2009 21:02:47 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**756.3**	**.0071**	**.1585**	**3.001**	**.4893**	**.1264**	**732.3**	**5.110**	**.2214**
#1	754.6	-.0103	.1781	2.999	.4924	.1264	732.8	5.109	.2200
#2	758.1	.0246	.1389	3.002	.4862	.1263	731.7	5.112	.2227

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**6.228**	**1275.**	**5.682**	**919.6**	**26.50**	**-.0075**	**2.820**	**203.5**	**.0879**
#1	6.227	1275.	5.689	916.9	26.37	-.0079	2.809	203.3	.1101
#2	6.229	1275.	5.674	922.2	26.63	-.0070	2.831	203.8	.0657

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0012**	**2009.**	**1.412**	**>275.0**	**9.368**	**.0110**
#1	-.0008	2006.	1.415	749.6	9.358	.0133
#2	.0032	2013.	1.409	745.7	9.378	.0088

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2530.6**	**81628.**	**8618.7**	**403.44**
#1	2537.0	81744.	8584.5	402.81
#2	2524.2	81512.	8652.9	404.06

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[illegible]
11/25/09

Sample Name: K0911121-010 Acquired: 11/24/2009 21:06:12 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**1228.**	**.0168**	**.6157**	**11.26**	**.7983**	**.3135**	**1184.**	**8.970**	**.5044**
#1	1224.	.0030	.6102	11.23	.7949	.3119	1184.	8.940	.4990
#2	1232.	.0307	.6213	11.30	.8017	.3150	1184.	9.000	.5099

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**42.80**	**2333.**	**13.24**	**987.6**	**84.34**	**-.0081**	**2.640**	**159.0**	**.0452**
#1	42.75	2337.	13.21	984.0	84.53	-.0099	2.636	157.7	.0093
#2	42.86	2329.	13.27	991.2	84.16	-.0063	2.644	160.2	.0811

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0805**	**472.8**	**1.903**	**>275.0**	**15.91**	**.0182**
#1	.0823	470.4	1.888	1413.	15.89	.0145
#2	.0786	475.2	1.918	1414.	15.93	.0219

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2672.1**	**87041.**	**9205.0**	**402.92**
#1	2677.0	87019.	9180.7	404.01
#2	2667.2	87064.	9229.3	401.83

* dilute
11/25/09

Sample Name: K0911121-011 Acquired: 11/24/2009 21:09:36 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**813.5**	**.0387**	**.2876**	**9.485**	**.5251**	**.2302**	**1157.**	**6.742**	**.3636**
#1	808.7	.0486	.2676	9.509	.5329	.2285	1156.	6.746	.3556
#2	818.3	.0289	.3076	9.462	.5174	.2320	1157.	6.737	.3716

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**17.57**	**1388.**	**8.311**	**610.7**	**61.53**	**-.0058**	**3.869**	**75.03**	**.0331**
#1	17.49	1393.	8.284	611.8	61.74	-.0074	3.854	75.14	.0187
#2	17.64	1383.	8.337	609.6	61.32	-.0043	3.884	74.91	.0474

Elem	Ag3280	Na5895	V_2924	Zn2062 *	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0377**	**133.8**	**1.212**	**>275.0**	**12.01**	**.0217**
#1	.0366	134.0	1.229	817.7	12.02	.0284
#2	.0388	133.6	1.196	826.8	12.01	.0151

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2578.6**	**84336.**	**8909.8**	**414.95**
#1	2587.1	83949.	8908.8	416.81
#2	2570.0	84723.	8910.8	413.10

*dilute
[illegible]
11/25/09

Sample Name: K0911121-012 Acquired: 11/24/2009 21:12:56 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**285.0**	**.0073**	**.0375**	**4.366**	**.2260**	**.0709**	**662.3**	**2.266**	**.1653**
#1	285.7	.0029	-.0243	4.379	.2291	.0706	665.4	2.266	.1691
#2	284.2	.0117	.0993	4.352	.2229	.0712	659.1	2.266	.1614

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**3.570**	**690.4**	**2.687**	**317.8**	**33.37**	**-.0040**	**1.155**	**33.80**	**.0104**
#1	3.573	693.8	2.681	318.4	33.22	-.0032	1.154	34.32	-.0003
#2	3.568	686.9	2.693	317.2	33.52	-.0049	1.155	33.28	.0210

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0089**	**63.36**	**.5925**	**126.3**	**3.625**	**.0224**
#1	.0134	63.72	.5889	126.0	3.619	.0221
#2	.0044	63.00	.5961	126.5	3.631	.0226

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2452.7**	**79515.**	**8299.9**	**425.88**
#1	2455.9	79631.	8260.7	426.97
#2	2449.5	79399.	8339.1	424.78

Sample Name: K0911121-013 Acquired: 11/24/2009 21:16:23 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**489.2**	**-.0111**	**.1122**	**4.255**	**.4443**	**.1243**	**412.3**	**3.403**	**.4380**
#1	490.3	.0026	.1326	4.256	.4402	.1232	413.5	3.396	.4411
#2	488.0	-.0248	.0917	4.254	.4484	.1253	411.2	3.410	.4350

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**4.043**	**682.4**	**3.791**	**193.5**	**23.59**	**.0375**	**2.547**	**30.74**	**.0070**
#1	4.052	684.6	3.774	193.9	23.49	.0379	2.544	30.82	-.0590
#2	4.034	680.2	3.808	193.0	23.68	.0370	2.550	30.67	.0731

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0110**	**66.49**	**2.736**	**>275.0**	**9.761**	**.0106**
#1	.0077	66.80	2.726	377.3	9.767	.0096
#2	.0143	66.17	2.745	378.7	9.755	.0116

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2518.8**	**82119.**	**8552.6**	**427.35**
#1	2520.2	82046.	8555.5	427.60
#2	2517.4	82192.	8549.6	427.10

* dilute
[illegible] 11/23/09

Sample Name: CCVA7 Acquired: 11/24/2009 21:19:43 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.659**	**2.098**	**3.200**	**1.743**	**27.83**	**2.322**	**5.898**	**4.561**
Stddev	.005	.008	.022	.003	.03	.014	.287	.018
%RSD	.0595	.3672	.6866	.1680	.0942	.6213	4.872	.3900
#1	8.655	2.104	3.215	1.741	27.84	2.312	6.101	4.573
#2	8.662	2.093	3.184	1.745	27.81	2.332	5.695	4.548
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**4.142**	**3.972**	**4.574**	**1.192**	**8.955**	**9.294**	F **4.139**	**4.438**
Stddev	.014	.009	.014	.007	.633	.029	.004	.051
%RSD	.3321	.2309	.3026	.5802	7.070	.3087	.0980	1.147
#1	4.133	3.979	4.584	1.187	8.508	9.274	4.141	4.402
#2	4.152	3.966	4.564	1.197	9.403	9.314	4.136	4.474
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Fail	Chk Pass
Value							4.600	
Range							-10.00%	

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**2.597**	**4.344**	**58.56**	**2.999**	**2.198**	**9.677**	**4.462**	**3.918**
Stddev	.013	.018	.41	.113	.000	.502	.004	.021
%RSD	.4795	.4238	.6916	3.778	.0187	5.187	.1017	.5449
#1	2.588	4.331	58.28	2.919	2.198	9.322	4.459	3.903
#2	2.606	4.357	58.85	3.079	2.197	10.03	4.465	3.933
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA7 Acquired: 11/24/2009 21:19:43 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**5.130**	**1.092**
Stddev	.002	.015
%RSD	.0324	1.396
#1	5.129	1.081
#2	5.131	1.103
Check ?	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	**2343.7**	**76258.**	**7843.3**	**429.54**
Stddev	6.5	23.	20.0	1.89
%RSD	.27569	.03063	.25495	.44063
#1	2348.3	76274.	7829.1	430.88
#2	2339.2	76241.	7857.4	428.20

Sample Name: CCVB7 Acquired: 11/24/2009 21:22:39 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**352.2**	**-.1626**	**13.14**	**70.47**	**.0181**	**.0009**	**234.8**	**.0012**	**.0030**
Stddev	.3	.0019	.04	.23	.0030	.0000	.5	.0024	.0060
%RSD	.0968	1.153	.2978	.3317	16.63	3.667	.2006	200.6	198.3
#1	352.4	-.1613	13.17	70.30	.0202	.0009	234.4	.0029	-.0012
#2	352.0	-.1639	13.11	70.63	.0159	.0009	235.1	-.0005	.0073
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1734**	**173.3**	**.0017**	**407.2**	**373.5**	**.0085**	**-.0266**	**.0036**	**.0146**
Stddev	.0037	.1	.0035	.9	1.0	.0003	.0125	.0047	.0020
%RSD	2.132	.0460	209.5	.2198	.2579	3.534	46.82	131.0	13.68
#1	-.1708	173.2	-.0008	406.6	372.8	.0087	-.0355	.0069	.0160
#2	-.1761	173.3	.0042	407.8	374.2	.0083	-.0178	.0003	.0132
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**247.1**	**.0114**	**.0047**	**383.6**	**.0006**	**.0088**	**3.028**	**.0117**
Stddev	.4	.0972	.0001	2.6	.0140	.0039	.003	.0063
%RSD	.1424	856.0	2.875	.6732	2231.	44.16	.1132	53.81
#1	247.3	.0801	.0046	381.7	-.0093	.0115	3.026	.0072
#2	246.8	-.0574	.0048	385.4	.0105	.0060	3.031	.0161
Check ?	Chk Pass	None	None	None	None	None	None	None
Value Range								

Sample Name: CCVB7 Acquired: 11/24/2009 21:22:39 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.4	75386.	7925.2	417.06
Stddev	13.6	31.	.7	.04
%RSD	.58074	.04167	.00916	.01070
#1	2356.0	75364.	7925.7	417.09
#2	2336.7	75408.	7924.7	417.03

Sample Name: CCB7 Acquired: 11/24/2009 21:26:10 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.3426**	**-.0136**	**-.0124**	**.0064**	**.0039**	**.0001**	**.0751**	**-.0002**	**.0018**
Stddev	.0116	.0118	.0452	.0003	.0023	.0003	.1173	.0096	.0067
%RSD	3.380	86.51	363.9	4.353	60.25	273.8	156.1	5485.	372.2
#1	.3508	-.0053	-.0444	.0062	.0056	-.0001	.1580	.0066	-.0030
#2	.3344	-.0219	.0196	.0066	.0022	.0003	-.0078	-.0070	.0066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.0175**	**.0158**	**.0020**	**.0980**	**-.0100**	**.0000**	**-.0084**	**-.0013**	**.0051**
Stddev	.0109	.0125	.0104	.4622	.0128	.002	.0002	.0036	.0032
%RSD	62.39	79.36	524.0	471.7	127.7	659700.	2.177	279.2	62.96
#1	-.0253	.0069	-.0054	-.2288	-.0010	-.0016	-.0085	.0012	.0029
#2	-.0098	.0246	.0093	.4248	-.0190	.0016	-.0082	-.0038	.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-1.816**	**-.0134**	**.0095**	**.1119**	**-.0048**	**.0041**	**.0099**	**.0021**
Stddev	.104	.0364	.0020	.3836	.0115	.0015	.0012	.0028
%RSD	5.710	272.3	21.41	343.0	239.2	36.01	12.01	134.6
#1	-1.742	.0124	.0081	-.1594	.0033	.0030	.0108	.0040
#2	-1.889	-.0391	.0109	.3831	-.0130	.0051	.0091	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB7 Acquired: 11/24/2009 21:26:10 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

nt. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2365.6	75759.	7833.7	433.20
Stddev	2.3	101.	59.0	1.56
%RSD	.09543	.13388	.75291	.36074
#1	2367.2	75688.	7792.0	434.30
#2	2364.0	75831.	7875.4	432.09

Sample Name: K0911121-014 Acquired: 11/24/2009 21:28:54 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**527.0**	**-.0072**	**-.0089**	**6.559**	**.2798**	**.0583**	**2756.**	**1.281**	**.1704**
#1	525.7	-.0044	-.0345	6.547	.2793	.0587	2756.	1.289	.1667
#2	528.3	-.0099	.0167	6.572	.2803	.0579	2756.	1.274	.1740

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/Lk	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**1.514**	**1612.**	**10.74**	**1955.**	**43.06**	**-.0130**	**.6217**	**25.56**	**.1547**
#1	1.522	1618.	10.69	1961.	43.12	-.0141	.6250	25.01	.1347
#2	1.506	1606.	10.78	1950.	43.01	-.0118	.6185	26.11	.1746

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**-.0066**	**84.64**	**1.257**	**>275.0**	**3.696**	**.0241**
#1	-.0088	84.55	1.263	560.1	3.699	.0345
#2	-.0043	84.73	1.251	564.7	3.692	.0137

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2414.3**	**77394.**	**8299.9**	**404.30**
#1	2418.6	77176.	8326.0	406.42
#2	2410.1	77613.	8273.8	402.17

* dilute
[illegible] 11/25/09

Sample Name: K0911121-015 Acquired: 11/24/2009 21:32:15 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: SEM

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk	umol/Lk
Avg	**279.8**	**-.0108**	**.0187**	**4.896**	**.2106**	**.0692**	**661.8**	**1.819**	**.1779**
#1	280.7	-.0052	.0010	4.902	.2083	.0701	663.4	1.818	.1827
#2	279.0	-.0163	.0364	4.889	.2129	.0683	660.3	1.821	.1730

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/Lk	umol/L	umol/L	umol/Lk	umol/Lk	umol/L	umol/Lk
Avg	**6.763**	**727.0**	**3.118**	**246.7**	**47.84**	**-.0025**	**7.652**	**32.05**	**.0381**
#1	6.768	729.2	3.127	246.2	47.93	-.0047	7.630	32.44	.0294
#2	6.759	724.8	3.110	247.2	47.75	-.0003	7.673	31.65	.0467

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/Lk	ppm	umol/Lk	umol/Lk	umol/Lk	umol/Lk
Avg	**.0092**	**87.59**	**.6337**	**155.6**	**2.977**	**.0255**
#1	.0051	87.82	.6340	155.8	2.971	.0242
#2	.0132	87.37	.6334	155.5	2.983	.0268

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2470.0**	**79633.**	**8328.1**	**424.48**
#1	2469.8	79610.	8304.1	424.55
#2	2470.2	79655.	8352.0	424.40

Sample Name: K0910845-001 Acquired: 11/24/2009 21:35:40 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/10 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**45.34**	**-.0004**	**-.0382**	**.4422**	**.0326**	**.0115**	**86.19**	**.3777**	**.0222**
#1	45.44	-.0137	-.0314	.4437	.0297	.0112	86.15	.3773	.0265
#2	45.24	.0128	-.0449	.4408	.0355	.0119	86.23	.3781	.0178

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.7702**	**99.73**	**.4181**	**54.86**	**4.870**	**-.0029**	**.0829**	**5.574**	**-.0037**
#1	.7750	99.63	.4181	54.91	4.855	-.0040	.0854	5.419	-.0041
#2	.7654	99.83	.4181	54.80	4.886	-.0018	.0804	5.730	-.0032

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0055**	**44.44**	**.0815**	**47.23**	**.6623**	**.0028**
#1	.0070	44.53	.0884	47.01	.6638	.0025
#2	.0041	44.34	.0747	47.45	.6609	.0031

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2401.5**	**77515.**	**8042.1**	**432.93**
#1	2409.3	77671.	8063.2	434.78
#2	2393.6	77360.	8021.0	431.08

Sample Name: K0910845-001D Acquired: 11/24/2009 21:38:46 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/10 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**63.50**	**.0015**	**-.0211**	**.6265**	**.0465**	**.0168**	**121.2**	**.5434**	**.0313**
#1	63.56	.0066	.0022	.6292	.0489	.0179	122.0	.5367	.0273
#2	63.43	-.0035	-.0445	.6239	.0442	.0156	120.4	.5502	.0353

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**1.057**	**143.0**	**.5972**	**76.71**	**6.972**	**-.0040**	**.1168**	**9.142**	**-.0032**
#1	1.063	143.2	.5956	76.61	6.944	-.0029	.1145	7.793	.0044
#2	1.051	142.8	.5988	76.80	7.000	-.0051	.1192	10.49	-.0107

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0068**	**60.26**	**.1242**	**66.22**	**.9508**	**.0012**
#1	.0128	60.27	.1275	66.10	.9527	-.0059
#2	.0007	60.24	.1209	66.35	.9489	.0082

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2395.1**	**76526.**	**7987.6**	**428.95**
#1	2399.7	76702.	7927.5	430.36
#2	2390.5	76350.	8047.7	427.54

Sample Name: K0910845-001L Acquired: 11/24/2009 21:41:52 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/50 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**9.003**	**-.0255**	**-.0559**	**.0912**	**.0112**	**.0028**	**17.48**	**.0834**	**.0046**
#1	9.074	-.0244	-.0650	.0909	.0152	.0025	17.60	.0846	.0090
#2	8.933	-.0265	-.0468	.0915	.0071	.0031	17.36	.0823	.0003

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1695**	**20.22**	**.0857**	**10.83**	**.9888**	**-.0021**	**.0271**	**-.7179**	**-.0194**
#1	.1683	20.24	.0893	10.92	.9810	-.0007	.0298	-1.182	-.0134
#2	.1708	20.20	.0822	10.74	.9967	-.0036	.0243	-.2539	-.0254

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0028**	**9.140**	**.0128**	**9.606**	**.1367**	**.0063**
#1	-.0053	9.360	.0178	9.554	.1391	.0084
#2	-.0004	8.920	.0079	9.657	.1343	.0042

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2355.4**	**76480.**	**7946.4**	**430.00**
#1	2366.5	76409.	7931.1	432.36
#2	2344.4	76552.	7961.6	427.64

Sample Name: K0910845-001S Acquired: 11/24/2009 21:44:54 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: S=0.1ml 1000ppm Zn + 1ml K10845-1 to 10ml

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**44.79**	**-.0083**	**-.0208**	**.4400**	**.0361**	**.0131**	**85.18**	**.3774**	**.0209**
#1	44.62	-.0215	-.0401	.4381	.0385	.0135	85.43	.3719	.0229
#2	44.96	.0048	-.0015	.4419	.0336	.0127	84.94	.3829	.0189

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.7581**	**99.40**	**.4220**	**53.74**	**4.815**	**-.0034**	**.0810**	**4.866**	**-.0243**
#1	.7461	99.68	.4221	53.81	4.811	-.0026	.0806	3.896	-.0198
#2	.7701	99.12	.4218	53.67	4.819	-.0041	.0813	5.835	-.0288

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0057**	**42.85**	**.0836**	**199.4**	**.6556**	**.0076**
#1	.0042	43.00	.0807	198.4	.6560	.0081
#2	.0071	42.70	.0865	200.3	.6553	.0070

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2374.5**	**77132.**	**7980.9**	**429.73**
#1	2375.9	76887.	7958.4	431.44
#2	2373.1	77378.	8003.4	428.02

Zn = M41-74-H

Sample Name: K0910845-004 Acquired: 11/24/2009 21:48:01 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**16.73**	**.0052**	**-.0641**	**.1599**	**.0235**	**.0042**	**76.68**	**.1303**	**.0088**
#1	16.77	-.0053	-.0532	.1599	.0253	.0044	76.79	.1316	.0116
#2	16.69	.0156	-.0751	.1598	.0217	.0041	76.56	.1289	.0060

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.3441**	**32.27**	**.1627**	**25.79**	**1.645**	**-.0025**	**.0263**	**2.329**	**-.0093**
#1	.3549	32.34	.1695	25.85	1.641	-.0022	.0277	1.741	-.0435
#2	.3332	32.19	.1560	25.74	1.650	-.0027	.0249	2.916	.0249

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0049**	**42.37**	**.0338**	**50.76**	**.2088**	**.0043**
#1	-.0048	42.35	.0304	50.36	.2115	.0090
#2	-.0049	42.39	.0372	51.15	.2061	-.0005

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2355.1**	**76225.**	**7975.4**	**432.16**
#1	2361.9	76138.	7982.4	433.84
#2	2348.4	76313.	7968.3	430.48

Sample Name: K0910845-006 Acquired: 11/24/2009 21:51:08 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**54.82**	**-.0235**	**-.0077**	**.4117**	**.0416**	**.0172**	**74.52**	**.5722**	**.0246**
#1	55.04	-.0325	-.0107	.4129	.0430	.0178	74.67	.5771	.0311
#2	54.60	-.0146	-.0046	.4104	.0401	.0166	74.37	.5673	.0182

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**1.018**	**124.1**	**.5902**	**59.48**	**4.273**	**-.0021**	**.0958**	**3.517**	**-.0414**
#1	1.029	124.0	.5843	59.41	4.282	-.0016	.0920	2.866	-.0678
#2	1.006	124.2	.5961	59.55	4.264	-.0027	.0997	4.168	-.0151

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0007**	**39.50**	**.0935**	**76.61**	**.8772**	**.0091**
#1	-.0016	39.27	.0958	76.32	.8761	.0085
#2	.0003	39.73	.0912	76.89	.8783	.0098

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2377.0**	**77424.**	**8044.1**	**431.42**
#1	2378.9	77581.	8016.7	431.61
#2	2375.2	77267.	8071.5	431.24

Sample Name: K0910845-009 Acquired: 11/24/2009 21:54:12 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**15.97**	**-.0161**	**-.0380**	**.1008**	**.0187**	**.0045**	**33.38**	**.1268**	**.0083**
#1	16.08	-.0186	-.0309	.1007	.0145	.0045	33.29	.1248	.0084
#2	15.86	-.0136	-.0451	.1008	.0229	.0044	33.46	.1289	.0082

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2108**	**39.63**	**.1376**	**29.70**	**1.341**	**-.0042**	**.0326**	**3.450**	**.0109**
#1	.2173	39.59	.1404	29.67	1.348	-.0010	.0330	3.066	-.0146
#2	.2043	39.68	.1349	29.74	1.334	-.0074	.0321	3.834	.0364

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0005**	**51.54**	**.0314**	**41.94**	**.1634**	**-.0017**
#1	.0039	51.84	.0283	41.97	.1616	-.0049
#2	-.0029	51.25	.0346	41.91	.1653	.0014

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2364.1**	**76309.**	**7963.4**	**430.12**
#1	2366.0	76332.	7967.6	429.44
#2	2362.2	76286.	7959.3	430.81

Sample Name: K0910845-010 Acquired: 11/24/2009 21:57:14 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**49.19**	**-.0206**	**-.0174**	**.2790**	**.0428**	**.0130**	**73.67**	**.4921**	**.0224**
#1	49.17	-.0298	-.0194	.2795	.0412	.0133	73.62	.4978	.0239
#2	49.22	-.0114	-.0154	.2786	.0445	.0127	73.73	.4864	.0209

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.6886**	**106.8**	**.4930**	**65.48**	**3.390**	**-.0025**	**.0841**	**7.410**	**-.0369**
#1	.6888	106.9	.4898	65.27	3.388	-.0009	.0825	7.214	-.0415
#2	.6884	106.6	.4963	65.70	3.392	-.0041	.0858	7.606	-.0324

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0028**	**79.43**	**.1136**	**27.86**	**.8272**	**.0083**
#1	.0045	79.06	.1148	27.95	.8316	.0031
#2	.0011	79.80	.1123	27.77	.8228	.0136

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2399.3**	**75845.**	**8028.9**	**428.49**
#1	2404.8	75657.	8004.3	427.28
#2	2393.7	76033.	8053.5	429.70

Sample Name: CCVA8 Acquired: 11/24/2009 22:00:19 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.692**	**2.113**	**3.251**	**1.762**	**28.18**	**2.311**	**6.049**	**4.658**	**4.168**
Stddev	.162	.005	.014	.002	.05	.010	.056	.016	.020
%RSD	1.863	.2343	.4140	.1001	.1649	.4203	.9242	.3421	.4774
#1	8.577	2.117	3.261	1.763	28.14	2.304	6.088	4.647	4.154
#2	8.806	2.110	3.241	1.760	28.21	2.318	6.009	4.670	4.182
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**3.963**	**4.566**	**1.201**	**10.51**	**9.565**	**4.299**	**4.527**	**2.605**	**4.350**
Stddev	.039	.054	.001	.34	.008	.002	.017	.019	.007
%RSD	.9887	1.190	.1095	3.218	.0867	.0499	.3664	.7429	.1701
#1	3.935	4.528	1.200	10.27	9.571	4.297	4.516	2.591	4.344
#2	3.990	4.605	1.202	10.75	9.559	4.300	4.539	2.618	4.355
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**59.48**	**3.038**	**2.222**	**9.414**	**4.583**	**3.955**	**5.177**	**1.145**
Stddev	1.29	.073	.009	.226	.000	.004	.020	.005
%RSD	2.167	2.409	.3995	2.405	.0033	.1030	.3794	.4184
#1	60.39	2.986	2.216	9.254	4.583	3.958	5.163	1.142
#2	58.57	3.089	2.228	9.574	4.583	3.952	5.190	1.149
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA8 Acquired: 11/24/2009 22:00:19 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2390.1	76000.	7929.9	429.36
Stddev	2.7	229.	18.1	.55
%RSD	.11413	.30089	.22809	.12901
#1	2388.2	75839.	7917.1	428.96
#2	2392.1	76162.	7942.7	429.75

Sample Name: CCVB8 Acquired: 11/24/2009 22:03:15 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**350.0**	**-.1405**	**13.00**	**69.25**	**.0212**	**.0010**	**234.9**	**.0044**	**.0085**
Stddev	.3	.0079	.10	.40	.0026	.0008	.2	.0107	.0084
%RSD	.0800	5.652	.7551	.5815	12.27	87.07	.0914	244.8	99.43
#1	350.1	-.1349	12.93	68.96	.0194	.0016	234.7	-.0032	.0025
#2	349.8	-.1461	13.07	69.53	.0231	.0004	235.0	.0119	.0144
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1311**	**172.9**	**.0018**	**407.8**	**380.3**	**.0081**	**-.0376**	**.0006**	**.0127**
Stddev	.0185	.9	.0024	5.0	.7	.0006	.0026	.0014	.0011
%RSD	14.08	.5058	135.8	1.225	.1803	6.970	6.826	215.8	8.324
#1	-.1442	173.5	.0001	404.3	380.7	.0077	-.0394	.0016	.0120
#2	-.1181	172.3	.0035	411.4	379.8	.0085	-.0358	-.0003	.0135
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**245.8**	**-.0137**	**.0129**	**392.7**	**.0074**	**.0102**	**3.027**	**.0064**
Stddev	1.1	.0571	.0013	1.7	.0053	.0020	.005	.0011
%RSD	.4578	417.8	10.44	.4291	70.87	19.80	.1662	17.53
#1	246.5	-.0541	.0139	393.9	.0037	.0088	3.023	.0072
#2	245.0	.0267	.0119	391.5	.0112	.0116	3.030	.0056
Check ?	Chk Pass	None	None	None	None	None	None	None
Value Range								

Sample Name: CCVB8 Acquired: 11/24/2009 22:03:15 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2383.0	75417.	7955.2	421.54
Stddev	4.2	148.	26.0	.90
%RSD	.17666	.19624	.32715	.21372
#1	2380.0	75521.	7936.8	422.18
#2	2386.0	75312.	7973.6	420.90

Sample Name: CCB8 Acquired: 11/24/2009 22:06:30 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1893**	**-.0208**	**.0007**	**.0099**	**.0077**	**.0001**	**.1379**	**.0032**	**-.0003**
Stddev	.0499	.0034	.0328	.0002	.0047	.0003	.2422	.0065	.0025
%RSD	26.35	16.52	4508.	2.160	60.74	307.9	175.7	198.9	961.4
#1	.2245	-.0233	-.0225	.0100	.0111	.0003	.3091	-.0013	.0015
#2	.1540	-.0184	.0239	.0097	.0044	-.0001	-.0334	.0078	-.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0006**	**.0448**	**-.0012**	**-.0806**	**.0061**	**.0007**	**-.0257**	**-.0009**	**.0090**
Stddev	.0074	.0098	.0031	.1347	.0283	.0008	.0162	.0026	.0061
%RSD	1230.	21.83	246.6	167.0	461.5	113.5	63.13	290.1	68.24
#1	.0058	.0379	.0009	-.1759	-.0139	.0001	-.0372	.0009	.0046
#2	-.0046	.0517	-.0034	.0146	.0261	.0012	-.0142	-.0027	.0133
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-2.499**	**.0229**	**.0136**	**-.2576**	**-.0106**	**.0010**	**.0038**	**.0011**
Stddev	1.151	.0319	.0012	.1866	.0008	.0029	.0033	.0026
%RSD	46.08	139.3	8.948	72.47	7.831	289.6	84.70	239.8
#1	-1.685	.0003	.0145	-.1256	-.0112	.0030	.0015	.0030
#2	-3.313	.0454	.0128	-.3895	-.0100	-.0010	.0061	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB8 Acquired: 11/24/2009 22:06:30 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2405.9	76646.	7943.5	434.87
Stddev	5.2	481.	47.9	1.85
%RSD	.21640	.62792	.60270	.42493
#1	2409.6	76306.	7977.3	436.18
#2	2402.2	76987.	7909.6	433.56

Sample Name: K0910845-011 Acquired: 11/24/2009 22:09:14 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**25.17**	**-.0012**	**-.0717**	**.1618**	**.0157**	**.0048**	**61.87**	**.1350**	**.0197**
#1	25.27	.0124	-.0427	.1604	.0094	.0041	61.70	.1293	.0183
#2	25.07	-.0148	-.1008	.1633	.0219	.0056	62.04	.1406	.0212

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.4564**	**37.91**	**.4220**	**41.05**	**.9037**	**.0001**	**.2224**	**-.5366**	**.0326**
#1	.4544	38.00	.4173	41.20	.8981	.0006	.2250	-.3420	.0394
#2	.4584	37.82	.4266	40.90	.9093	-.0005	.2199	-.7312	.0257

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0013**	**3.612**	**.0318**	**73.27**	**.2379**	**.0097**
#1	.0019	3.758	.0237	72.84	.2388	.0096
#2	-.0046	3.467	.0399	73.71	.2369	.0098

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2379.8**	**76576.**	**7998.0**	**431.82**
#1	2390.3	76729.	8014.3	434.71
#2	2369.3	76422.	7981.8	428.93

Sample Name: K0910845-012 Acquired: 11/24/2009 22:12:21 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**18.97**	**-.0083**	**-.0439**	**.1157**	**.0183**	**.0029**	**28.66**	**.1275**	**.0035**
#1	19.02	-.0079	-.0429	.1154	.0279	.0038	28.51	.1255	.0041
#2	18.93	-.0088	-.0448	.1160	.0086	.0020	28.82	.1295	.0028

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0890**	**44.71**	**.1041**	**30.86**	**1.391**	**-.0013**	**.0375**	**2.077**	**.0002**
#1	.0897	44.71	.1028	31.03	1.384	-.0008	.0374	1.975	.0030
#2	.0884	44.70	.1055	30.68	1.398	-.0018	.0377	2.178	-.0027

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0034**	**50.69**	**.0425**	**51.48**	**.2219**	**.0025**
#1	.0033	50.94	.0440	51.27	.2210	.0039
#2	.0034	50.43	.0411	51.70	.2228	.0011

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2375.1**	**76867.**	**8065.6**	**433.89**
#1	2375.3	76886.	8090.3	434.41
#2	2374.9	76849.	8040.9	433.38

Sample Name: K0910845-016 Acquired: 11/24/2009 22:15:23 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**25.99**	**.0033**	**-.0555**	**.1588**	**.0237**	**.0077**	**42.51**	**.2036**	**.0110**
#1	26.00	.0054	-.0581	.1594	.0287	.0070	42.41	.2057	.0100
#2	25.98	.0013	-.0529	.1582	.0187	.0084	42.62	.2016	.0121

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.3607**	**57.76**	**.2236**	**51.54**	**1.561**	**-.0031**	**.2929**	**5.674**	**.0161**
#1	.3674	57.95	.2230	51.62	1.560	-.0033	.2921	5.467	.0046
#2	.3540	57.57	.2242	51.45	1.562	-.0030	.2937	5.882	.0276

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0005**	**167.8**	**.0602**	**58.76**	**.3869**	**.0025**
#1	-.0029	167.3	.0594	58.58	.3916	.0042
#2	.0019	168.4	.0610	58.93	.3822	.0008

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2386.8**	**76933.**	**8096.5**	**433.12**
#1	2391.1	76907.	8081.0	434.56
#2	2382.6	76959.	8111.9	431.68

Sample Name: K0910845-017 Acquired: 11/24/2009 22:18:26 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**22.54**	**-.0099**	**-.0381**	**.2026**	**.0178**	**.0059**	**51.52**	**.1903**	**.0127**
#1	22.42	.0061	-.0412	.2012	.0227	.0065	51.44	.1953	.0115
#2	22.66	-.0258	-.0350	.2041	.0128	.0053	51.61	.1853	.0139

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.4215**	**48.48**	**.2086**	**28.84**	**2.250**	**-.0041**	**.0477**	**2.165**	**.0124**
#1	.4226	48.49	.2059	28.87	2.251	-.0059	.0461	2.631	-.0036
#2	.4203	48.46	.2113	28.81	2.249	-.0023	.0492	1.698	.0284

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0030**	**45.93**	**.0405**	**41.98**	**.2907**	**.0043**
#1	-.0035	45.91	.0457	41.84	.2918	.0082
#2	-.0025	45.94	.0352	42.12	.2896	.0003

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2386.0**	**76889.**	**8011.2**	**432.96**
#1	2391.6	76842.	8030.4	433.53
#2	2380.3	76935.	7992.0	432.39

Sample Name: K0910845-019 Acquired: 11/24/2009 22:21:34 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**16.37**	**-.0075**	**-.0206**	**.1129**	**.0144**	**.0034**	**28.67**	**.0954**	**.0095**
#1	16.37	-.0130	.0166	.1116	.0107	.0033	28.16	.0945	.0097
#2	16.36	-.0021	-.0579	.1143	.0181	.0036	29.17	.0962	.0094

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0470**	**43.96**	**.0759**	**32.61**	**1.431**	**-.0001**	**.0277**	**3.426**	**.0440**
#1	.0460	43.38	.0766	32.55	1.438	.0016	.0295	2.720	.0540
#2	.0481	44.53	.0752	32.66	1.425	-.0017	.0260	4.132	.0340

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0017**	**99.50**	**.0451**	**35.12**	**.1600**	**.0064**
#1	.0028	98.69	.0459	35.01	.1607	.0010
#2	.0007	100.3	.0443	35.24	.1592	.0118

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2367.4**	**77050.**	**8094.7**	**433.99**
#1	2376.2	77043.	8171.2	434.41
#2	2358.7	77056.	8018.1	433.57

Sample Name: K0911038-002 Acquired: 11/24/2009 22:24:36 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**16.05**	**-.0195**	**-.0320**	**.3733**	**.0274**	**.0027**	**110.4**	**.1499**	**.0146**
#1	16.13	-.0359	-.0352	.3712	.0364	.0015	110.1	.1544	.0182
#2	15.96	-.0032	-.0287	.3754	.0184	.0039	110.6	.1454	.0109

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.3504**	**57.81**	**.2546**	**18.08**	**2.622**	**-.0019**	**.0728**	**.1456**	**.0023**
#1	.3542	57.65	.2562	18.14	2.630	-.0031	.0704	-.0648	-.0086
#2	.3467	57.97	.2531	18.02	2.614	-.0007	.0752	.3561	.0132

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0021**	**2.922**	**.0331**	**71.25**	**.2160**	**.0128**
#1	.0044	3.170	.0344	71.04	.2145	.0144
#2	-.0086	2.675	.0318	71.47	.2175	.0111

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2381.0**	**76697.**	**8079.8**	**434.81**
#1	2387.7	76757.	8106.9	436.04
#2	2374.3	76638.	8052.8	433.59

Sample Name: CCVA9 Acquired: 11/24/2009 22:27:41 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.642**	**2.123**	**3.130**	**1.712**	**27.72**	**2.301**	**5.991**	**4.503**
Stddev	.149	.014	.014	.007	.00	.007	.266	.006
%RSD	1.722	.6453	.4545	.3947	.0100	.3002	4.446	.1401
#1	8.537	2.114	3.140	1.717	27.72	2.296	6.179	4.507
#2	8.747	2.133	3.120	1.708	27.72	2.306	5.803	4.498
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**4.076**	**3.993**	**4.402**	**1.173**	**10.13**	**9.405**	F **4.056**	**4.509**
Stddev	.010	.005	.039	.005	.67	.086	.001	.033
%RSD	.2380	.1188	.8953	.4646	6.610	.9118	.0283	.7282
#1	4.069	3.989	4.430	1.170	9.654	9.345	4.057	4.486
#2	4.083	3.996	4.374	1.177	10.60	9.466	4.055	4.532
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Fail	Chk Pass
Value							4.600	
Range							-10.00%	

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**2.567**	**4.285**	**58.58**	**2.981**	**2.222**	**9.452**	F **4.365**	**3.900**
Stddev	.018	.021	.65	.037	.007	.039	.016	.029
%RSD	.6811	.4903	1.103	1.260	.3318	.4078	.3551	.7378
#1	2.554	4.271	58.12	3.008	2.228	9.479	4.354	3.879
#2	2.579	4.300	59.03	2.955	2.217	9.425	4.376	3.920
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass
Value							4.900	
Range							-10.00%	

Sample Name: CCVA9 Acquired: 11/24/2009 22:27:41 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**5.042**	F **1.073**
Stddev	.003	.004
%RSD	.0659	.3810
#1	5.044	1.076
#2	5.040	1.070
Check ?	Chk Pass	Chk Fail
Value		1.200
Range		-10.00%

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2375.4**	**77250.**	**8095.9**	**434.39**
Stddev	3.0	216.	96.0	.45
%RSD	.12578	.27991	1.1861	.10418
#1	2373.3	77097.	8028.0	434.71
#2	2377.5	77403.	8163.8	434.07

ample Name: CCVB9 Acquired: 11/24/2009 22:30:37 Type: QC
lethod: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
lser: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
omment:

lem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
nits	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
vg	**350.8**	**-.1455**	**13.20**	**69.93**	**.0233**	**.0002**	**235.9**	**.0072**	**.0137**
tddev	1.6	.0263	.09	.26	.0136	.0008	2.0	.0074	.0013
RSD	.4502	18.09	.6881	.3748	58.12	379.2	.8419	101.7	9.711
1	349.6	-.1641	13.14	69.75	.0329	-.0004	234.5	.0020	.0146
2	351.9	-.1269	13.26	70.12	.0138	.0008	237.3	.0124	.0127
heck ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
alue									
ange									

lem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
nits	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
vg	**-.1556**	**175.0**	**.0081**	**410.8**	**381.6**	**.0098**	**-.0467**	**-.0007**	**.0078**
tddev	.0117	.6	.0019	4.5	1.8	.0016	.0120	.0002	.0021
RSD	7.526	.3519	23.83	1.086	.4762	16.29	25.68	33.58	26.98
1	-.1639	174.5	.0094	407.6	380.3	.0087	-.0551	-.0008	.0093
2	-.1474	175.4	.0067	413.9	382.9	.0110	-.0382	-.0005	.0063
heck ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
alue									
ange									

lem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
nits	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
vg	**248.6**	**.0222**	**.0063**	**390.7**	**-.0060**	**.0085**	**3.069**	**.0051**
tddev	.5	.0271	.0008	1.9	.0051	.0017	.030	.0019
RSD	.1861	122.0	12.74	.4914	83.80	19.70	.9641	38.18
1	248.3	.0414	.0057	389.3	-.0096	.0097	3.090	.0037
2	249.0	.0030	.0068	392.1	-.0025	.0073	3.048	.0065
heck ?	Chk Pass	None	None	None	None	None	None	None
alue								
ange								

Sample Name: CCVB9 Acquired: 11/24/2009 22:30:37 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2364.2	74958.	8016.2	416.85
Stddev	4.3	621.	13.1	.54
%RSD	.18025	.82849	.16339	.12899
#1	2367.2	74519.	8025.5	416.47
#2	2361.2	75397.	8007.0	417.23

Sample Name: CCB9 Acquired: 11/24/2009 22:33:52 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2320**	**-.0077**	**-.0530**	**.0079**	**.0093**	**.0009**	**.1085**	**.0005**	**-.0037**
Stddev	.0057	.0128	.0571	.0008	.0040	.0010	.1522	.0048	.0000
%RSD	2.456	165.8	107.8	9.719	42.78	103.4	140.3	928.3	.1077
R1	.2280	-.0167	-.0934	.0073	.0121	.0016	.0009	.0039	-.0037
R2	.2360	.0013	-.0126	.0084	.0065	.0002	.2161	-.0029	-.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.0095**	**.0647**	**.0029**	**.2082**	**-.0216**	**-.0002**	**-.0147**	**-.0017**	**.0029**
Stddev	.0039	.0034	.0023	.1622	.0091	.0003	.0135	.0003	.0004
%RSD	40.95	5.295	77.99	77.88	42.22	134.4	91.45	19.84	13.58
R1	-.0067	.0623	.0045	.3229	-.0152	-.0004	-.0052	-.0014	.0027
R2	-.0122	.0671	.0013	.0936	-.0281	.0000	-.0243	-.0019	.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-2.182**	**.0167**	**.0079**	**.2711**	**.0079**	**-.0003**	**.0040**	**.0125**
Stddev	.411	.0250	.0032	.6695	.0043	.0029	.0026	.0035
%RSD	18.83	149.8	40.96	246.9	54.93	1117.	65.32	27.83
R1	-2.473	.0344	.0056	.7445	.0048	-.0023	.0021	.0150
R2	-1.891	-.0010	.0102	-.2023	.0110	.0018	.0058	.0100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB9 Acquired: 11/24/2009 22:33:52 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 180781 File Name: 112409E Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2385.6	75865.	7986.3	431.68
Stddev	5.0	26.	56.0	1.83
%RSD	.21122	.03459	.70164	.42316
#1	2382.0	75846.	8025.9	430.39
#2	2389.2	75883.	7946.6	432.97

Service Request # K0911038 dilutions
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 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	11/24	
10.	MS-MSD or Dup-MS and LCS within CAS control limits	11/24	
11.	All analytes within instrument linear range	✓	
12.	Adequate rinse out time allowed between samples to eliminate memory effect	✓	

Comments:
StarLIMS Run # 181176 Saved under 113009CICP03
NR LL Al, Ca, Mg, K. NR Na.
SEM Calibration. Do not report 200.7.

Primary Review by LMMR Date 11/30/09

Secondary Review by SC Date 12/1/09

Sample Name: BLK Acquired: 11/30/2009 15:29:23 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-26.10**	**.5700**	**1.170**	**.0095**	**-1.920**	**-.0009**	**.0017**	**.0000**
Stddev	2.36	.0613	.174	.0005	1.728	.0006	.0001	.000
%RSD	9.050	10.75	14.91	5.237	90.00	67.15	8.719	60.55
#1	-27.77	.5267	1.047	.0092	-.6980	-.0005	.0016	.0000
#2	-24.43	.6133	1.293	.0099	-3.141	-.0014	.0018	.0000

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**-209.5**	**.0008**	**-.0010**	**-.0002**	**6.525**	**.0001**	**.0000**
Stddev	.0004	3.3	.0003	.0030	.0002	2.227	.0000	.0000
%RSD	335.7	1.597	33.63	298.8	67.20	34.14	25.89	58.80
#1	-.0004	-211.8	.0010	-.0031	-.0003	8.100	.0000	.0000
#2	.0002	-207.1	.0006	.0011	-.0001	4.950	.0001	.0000

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**.0008**	**48.63**	**-.3933**	**-9.473**	**966.1**	**-.0004**	**.0015**
Stddev	.0002	.0002	2.02	.6694	6.628	13.9	.0002	.0021
%RSD	414.6	24.41	4.144	170.2	69.97	1.438	42.63	146.0
#1	.0002	.0007	50.05	-.8667	-14.16	975.9	-.0003	.0030
#2	-.0001	.0009	47.20	.0800	-4.787	956.3	-.0006	.0000

Elem	Ti3361	Tl1908
Units	Cts/S	Cts/S
Avg	**.0016**	**-.0045**
Stddev	.0001	.0023
%RSD	4.310	50.50
#1	.0015	-.0061
#2	.0016	-.0029

Sample Name: BLK Acquired: 11/30/2009 15:29:23 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1993.8	57314.	6902.7	347.98
Stddev	2.2	39.	90.6	1.05
%RSD	.11260	.06811	1.3126	.30210
#1	1995.3	57286.	6966.8	348.72
#2	1992.2	57341.	6838.7	347.24

UMMR 11/30/09

Sample Name: STD A Acquired: 11/30/2009 15:32:26 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-81-A

Elem	Sb2068	Be2348	Cd2265	Cr2677	Co2307	Cu3273	Pb2203	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**255.4**	**24360.**	**2.625**	**.0961**	**.8176**	**6858.**	**1.158**	**.4892**
Stddev	1.6	1.	.006	.0003	.0006	36.	.001	.0034
%RSD	.6431	.0039	.2204	.2988	.0783	.5278	.0467	.6965
#1	254.3	24360.	2.629	.0964	.8172	6832.	1.158	.4916
#2	256.6	24360.	2.621	.0959	.8181	6883.	1.157	.4868

Elem	Mn2605	Mo2020	Ni2216	Se1960	Ag3280	V_2924	Zn2062	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0279**	**.7429**	**.9892**	**127.8**	**7476.**	**.1086**	**4.185**	**.4455**
Stddev	.0002	.0006	.0001	.4	29.	.0006	.021	.0004
%RSD	.5470	.0829	.0135	.3165	.3869	.5711	.5139	.0934
#1	.0280	.7424	.9891	127.5	7456.	.1090	4.201	.4452
#2	.0278	.7433	.9893	128.1	7497.	.1082	4.170	.4457

Elem	Tl1908
Units	Cts/S
Avg	**.6825**
Stddev	.0063
%RSD	.9180
#1	.6781
#2	.6869

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2008.1**	**57190.**	**6929.5**	**343.90**
Stddev	4.4	195.	65.7	.65
%RSD	.21956	.34117	.94771	.19018
#1	2005.0	57052.	6976.0	343.44
#2	2011.2	57328.	6883.1	344.37

Sample Name: STD B Acquired: 11/30/2009 15:35:19 Type: Cal
Method: 09DSEM(v3) Mode: IR Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-79-D

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790	Mg2852	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**70330.**	**490.0**	**160.8**	**2.806**	**4.682**	**.4832**	**67130.**	**11190.**
Stddev	370.	3.9	.2	.001	.015	.0012	175.	2.
%RSD	.5258	.8017	.1261	.0412	.3174	.2577	.2605	.0142
#1	70070.	487.2	160.7	2.807	4.693	.4823	67000.	11190.
#2	70590.	492.8	161.0	2.805	4.672	.4841	67250.	11190.

Elem	Na5895
Units	Cts/S
Avg	**27440.**
Stddev	168.
%RSD	.6120
#1	27330.
#2	27560.

Int. Std.	Y_2243	Y_3600-2
Units	Cts/S	Cts/S
Avg	**1957.1**	**6836.8**
Stddev	1.1	3.4
%RSD	.05712	.04991
#1	1956.3	6834.4
#2	1957.9	6839.2

Sample Name: ICV1 Acquired: 11/30/2009 15:38:36 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-82-D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**177.5**	**20.33**	**33.61**	**36.37**	**13.89**	**11.07**	**303.3**	**9.477**	**20.67**
Stddev	1.1	.04	.14	.02	.06	.05	.6	.023	.11
%RSD	.6250	.2083	.4219	.0440	.4246	.4583	.2040	.2407	.5432
#1	176.7	20.36	33.51	36.36	13.85	11.03	302.9	9.493	20.59
#2	178.3	20.30	33.72	36.38	13.93	11.10	303.7	9.461	20.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**9.889**	**43.62**	**12.62**	**504.5**	**503.5**	**21.77**	**22.34**	**21.72**	**20.77**
Stddev	.023	.09	.06	.3	3.0	.02	.06	.13	.08
%RSD	.2321	.1984	.4601	.0574	.5999	.0849	.2543	.5917	.3790
#1	9.873	43.56	12.58	504.7	505.6	21.76	22.38	21.62	20.72
#2	9.906	43.68	12.66	504.2	501.4	21.79	22.30	21.81	20.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**316.2**	**30.74**	**5.746**	**526.9**	**23.97**	**20.07**	**42.96**	**12.64**
Stddev	.3	.01	.010	3.3	.01	.09	.00	.13
%RSD	.0966	.0434	.1689	.6268	.0335	.4346	.0111	1.013
#1	316.4	30.75	5.739	529.2	23.98	20.00	42.97	12.55
#2	316.0	30.73	5.753	524.5	23.96	20.13	42.96	12.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV1 Acquired: 11/30/2009 15:38:36 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-82-D

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.8	56968.	6927.7	319.50
Stddev	5.4	92.	13.0	1.21
%RSD	.27412	.16095	.18760	.37869
#1	1966.6	56904.	6936.9	320.36
#2	1959.0	57033.	6918.5	318.65

Sample Name: ICVB1 Acquired: 11/30/2009 15:41:38 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-80-C

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**35.30**	**.0455**	**.0042**	**.0084**	**.0088**	**.0010**	**125.7**	**-.0084**	**.0032**
Stddev	.18	.0008	.0317	.0001	.0046	.0009	.3	.0005	.0015
%RSD	.5181	1.724	753.8	1.066	52.62	88.78	.2582	5.530	48.28
#1	35.17	.0461	.0266	.0084	.0055	.0004	125.9	-.0087	.0043
#2	35.43	.0450	-.0182	.0083	.0120	.0016	125.4	-.0081	.0021
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0166**	**175.5**	**.0057**	**201.9**	**203.5**	**169.8**	**177.8**	**.0101**	**.0039**
Stddev	.0015	.4	.0042	1.4	1.7	2.0	2.3	.0024	.0015
%RSD	8.977	.2288	74.29	.7135	.8486	1.185	1.314	23.87	37.49
#1	.0155	175.8	.0027	202.9	202.3	168.4	176.1	.0118	.0029
#2	.0176	175.2	.0087	200.9	204.7	171.2	179.4	.0084	.0050
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.1904**	**-.0939**	**.0063**	**-11.92**	**.0248**	**.0094**	**.0111**	**.0322**
Stddev	.1284	.0112	.0043	.32	.0047	.0034	.0030	.0052
%RSD	67.42	11.97	68.16	2.678	19.09	36.44	26.72	16.13
#1	-.2812	-.0860	.0033	-11.69	.0214	.0070	.0090	.0285
#2	-.0996	-.1019	.0094	-12.15	.0281	.0119	.0132	.0359
Check ?	None	None	None	None	None	None	None	None
High Limit								
Low Limit								

Sample Name: ICVB1 Acquired: 11/30/2009 15:41:38 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-80-C

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1973.8	57521.	6904.4	340.23
Stddev	5.5	17.	77.6	.25
%RSD	.27900	.02922	1.1242	.07205
#1	1977.7	57533.	6849.6	340.40
#2	1969.9	57509.	6959.3	340.05

Sample Name: ICB Acquired: 11/30/2009 15:44:47 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1005**	**.0115**	**-.0397**	**.0038**	**-.0034**	**.0004**	**.1430**	**-.0061**
Stddev	.0208	.0115	.0090	.0007	.0023	.0004	.0387	.0096
%RSD	20.68	100.5	22.69	17.14	68.37	95.94	27.08	155.5
#1	.1152	.0033	-.0333	.0043	-.0050	.0006	.1704	.0006
#2	.0858	.0196	-.0461	.0034	-.0018	.0001	.1156	-.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0045**	**.0076**	**-.0076**	**-.0023**	**.5520**	**-.0080**	**.0028**	**.0109**
Stddev	.0057	.0116	.0009	.0016	.0209	.0126	.0019	.0085
%RSD	128.6	153.5	12.02	70.76	3.794	157.7	69.62	78.51
#1	.0004	-.0006	-.0083	-.0011	.5372	.0009	.0041	.0048
#2	.0085	.0158	-.0070	-.0034	.5668	-.0169	.0014	.0169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**.0030**	**.0017**	**-.2194**	**-.0138**	**-.0016**	F **-11.60**	**.0170**	**.0014**
Stddev	.0027	.0011	.1982	.0061	.0040	.39	.0009	.0011
%RSD	90.22	65.07	90.33	43.74	249.1	3.357	5.230	78.62
#1	.0049	.0009	-.3596	-.0181	.0012	-11.32	.0176	.0006
#2	.0011	.0024	-.0793	-.0096	-.0045	-11.87	.0164	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit						8.700		
Low Limit						-8.700		

Sample Name: ICB Acquired: 11/30/2009 15:44:47 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**.0004**	**.0022**
Stddev	.0011	.0039
%RSD	281.4	176.5
#1	.0012	-.0005
#2	-.0004	.0050
Check ?	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	**1958.4**	**57923.**	**6940.4**	**348.57**
Stddev	34.9	61.	18.6	4.35
%RSD	1.7829	.10606	.26819	1.2469
#1	1983.1	57879.	6953.6	351.65
#2	1933.7	57966.	6927.3	345.50

Sample Name: CCVA1 Acquired: 11/30/2009 15:47:30 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.954**	**2.101**	**3.336**	**1.829**	**28.11**	**2.281**	**6.944**	**4.699**	**4.256**
Stddev	.035	.013	.026	.007	.10	.003	.024	.015	.024
%RSD	.3930	.6045	.7796	.3847	.3583	.1436	.3513	.3113	.5677
#1	8.929	2.110	3.355	1.824	28.04	2.279	6.927	4.709	4.239
#2	8.979	2.092	3.318	1.834	28.18	2.283	6.961	4.688	4.273
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**4.009**	**4.759**	**1.208**	**12.05**	**12.30**	**4.431**	**4.528**	**2.651**	**4.336**
Stddev	.012	.037	.004	1.17	.02	.007	.005	.014	.000
%RSD	.2920	.7702	.3325	9.692	.1642	.1502	.1091	.5183	.0000
#1	4.017	4.733	1.210	11.23	12.28	4.427	4.532	2.641	4.336
#2	4.001	4.785	1.205	12.88	12.31	4.436	4.525	2.661	4.336
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**64.63**	**3.068**	**2.275**	**15.86**	**4.753**	**3.861**	**5.264**	**1.185**
Stddev	.52	.027	.003	.47	.021	.017	.017	.001
%RSD	.8065	.8734	.1248	2.980	.4515	.4344	.3158	.0880
#1	65.00	3.087	2.277	15.53	4.768	3.849	5.275	1.186
#2	64.26	3.050	2.273	16.20	4.738	3.873	5.252	1.184
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCVA1 Acquired: 11/30/2009 15:47:30 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1944.5	57356.	6902.7	342.94
Stddev	4.6	192.	26.9	.85
%RSD	.23591	.33496	.39039	.24674
#1	1947.7	57220.	6921.7	343.54
#2	1941.2	57492.	6883.6	342.34

Sample Name: CCVB1 Acquired: 11/30/2009 15:50:27 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/LR	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**360.7**	**-.1190**	**13.34**	R **71.86**	**.0128**	**.0001**	**241.4**	**.0086**	**.0100**
Stddev	2.3	.0008	.08	.80	.0108	.0005	.0	.0078	.0012
%RSD	.6282	.6903	.5672	1.115	84.11	486.7	.0045	90.61	11.86
#1	362.3	-.1184	13.29	72.43	.0204	-.0002	241.4	.0141	.0108
#2	359.1	-.1196	13.40	71.29	.0052	.0004	241.4	.0031	.0091
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.1067**	**176.8**	**-.0026**	**405.1**	**396.7**	**.0086**	**.0024**	**.0012**	**.0021**
Stddev	.0103	.2	.0015	2.0	1.3	.0001	.0050	.0015	.0007
%RSD	9.620	.0955	57.95	.5019	.3263	1.401	211.4	123.9	36.14
#1	-.1139	176.9	-.0015	403.6	395.8	.0087	.0059	.0023	.0015
#2	-.0994	176.7	-.0037	406.5	397.7	.0085	-.0012	.0002	.0026
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**256.3**	**-.0201**	**-.0016**	**411.5**	**.0058**	**.0030**	**3.212**	**.0068**
Stddev	.8	.0303	.0054	2.9	.0037	.0021	.011	.0102
%RSD	.3027	150.7	345.8	.7067	63.22	71.30	.3551	149.5
#1	256.9	-.0415	-.0054	409.5	.0032	.0045	3.204	.0141
#2	255.8	.0013	.0022	413.6	.0084	.0015	3.220	-.0004
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Sample Name: CCVB1 Acquired: 11/30/2009 15:50:27 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1926.2	56759.	6942.3	331.15
Stddev	7.8	324.	9.0	.23
%RSD	.40661	.57051	.12906	.06848
#1	1931.8	56988.	6936.0	330.99
#2	1920.7	56530.	6948.7	331.31

Sample Name: CCB1 Acquired: 11/30/2009 15:54:01 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1264**	**.0120**	**-.0044**	**.0031**	**-.0001**	**.0006**	**-.0077**	**-.0028**
Stddev	.0259	.0073	.0301	.0008	.0048	.0009	.0722	.0105
%RSD	20.47	60.52	689.0	25.94	9342.	150.6	941.9	378.9
#1	.1081	.0069	-.0257	.0026	.0034	.0012	-.0587	-.0102
#2	.1447	.0171	.0169	.0037	-.0035	.0000	.0434	.0047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0031**	**-.0025**	**.0075**	**.0043**	**.3030**	**.0754**	**-.0005**	**.0096**
Stddev	.0054	.0048	.0224	.0044	.1013	.0022	.0012	.0113
%RSD	174.7	191.5	297.1	101.5	33.43	2.874	235.4	118.1
#1	.0070	-.0059	-.0083	.0074	.2314	.0769	.0003	.0016
#2	-.0007	.0009	.0234	.0012	.3746	.0739	-.0014	.0175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**.0032**	**.0023**	**.0689**	**-.0194**	**-.0044**	F **-12.98**	**.0142**	**-.0039**
Stddev	.0000	.0014	.8270	.0042	.0067	.50	.0049	.0018
%RSD	1.207	61.12	1200.	21.59	150.3	3.878	34.23	46.25
#1	.0032	.0013	-.5159	-.0165	-.0091	-12.62	.0176	-.0026
#2	.0032	.0033	.6537	-.0224	.0003	-13.33	.0108	-.0052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit						8.700		
Low Limit						-8.700		

Sample Name: CCB1 Acquired: 11/30/2009 15:54:01 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**.0010**	**.0054**
Stddev	.0004	.0009
%RSD	37.11	17.29
#1	.0012	.0061
#2	.0007	.0048
Check ?	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	**1946.1**	**56954.**	**6881.7**	**345.23**
Stddev	2.3	446.	.1	1.92
%RSD	.12015	.78379	.00097	.55643
#1	1944.5	57269.	6881.8	346.59
#2	1947.8	56638.	6881.7	343.87

Sample Name: CRI Acquired: 11/30/2009 15:56:46 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-80-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**1.779**	**.4168**	**1.354**	**.0367**	**.5915**	**.0445**	**1.282**	**.0847**
Stddev	.055	.0109	.024	.0003	.0036	.0008	.090	.0050
%RSD	3.078	2.611	1.768	.8298	.6018	1.838	7.054	5.954
#1	1.818	.4091	1.371	.0365	.5890	.0451	1.218	.0882
#2	1.741	.4245	1.337	.0369	.5940	.0439	1.345	.0811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1714**	**.1508**	**.3459**	**.2379**	**.8711**	**.7826**	**.0866**	**.0937**
Stddev	.0059	.0066	.0084	.0025	.0539	.0061	.0010	.0256
%RSD	3.463	4.398	2.418	1.060	6.191	.7755	1.194	27.31
#1	.1672	.1555	.3518	.2361	.8330	.7869	.0858	.1117
#2	.1756	.1461	.3400	.2396	.9092	.7783	.0873	.0756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**.1003**	**.3439**	**9.868**	**1.168**	**.0888**	F **-5.568**	**.1978**	**.1486**
Stddev	.0006	.0009	.949	.023	.0009	.285	.0105	.0010
%RSD	.5800	.2530	9.616	1.995	1.041	5.124	5.296	.6958
#1	.1007	.3433	10.54	1.184	.0882	-5.366	.1904	.1479
#2	.0999	.3445	9.197	1.151	.0895	-5.770	.2052	.1494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						8.700		
Range						-50.00%		

Sample Name: CRI Acquired: 11/30/2009 15:56:46 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-80-A

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**.2084**	**.9384**
Stddev	.0055	.0136
%RSD	2.650	1.450
#1	.2045	.9288
#2	.2124	.9480
Check ?	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	**1966.1**	**57714.**	**6899.8**	**347.61**
Stddev	5.8	225.	104.4	2.69
%RSD	.29646	.38942	1.5132	.77503
#1	1970.2	57555.	6973.7	349.51
#2	1962.0	57872.	6826.0	345.70

Sample Name: CRI Acquired: 11/30/2009 15:59:18 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICAP ICP6-76-C

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2180**	**.0992**	**.1569**	**.0157**	**.0268**	**.0052**	**.1263**	**.0392**
Stddev	.0164	.0028	.0214	.0001	.0105	.0007	.0293	.0028
%RSD	7.519	2.781	13.62	.3605	39.39	14.42	23.17	7.137
#1	.2296	.1011	.1418	.0156	.0342	.0047	.1056	.0412
#2	.2064	.0972	.1720	.0157	.0193	.0057	.1470	.0372
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0149**	**.0479**	**.1004**	**.0471**	**.3886**	**.0239**	**.0115**	**-.0024**
Stddev	.0021	.0035	.0090	.0089	.0189	.0091	.0006	.0072
%RSD	13.85	7.395	9.003	18.88	4.859	38.07	5.260	295.9
#1	.0164	.0505	.1068	.0534	.4019	.0303	.0119	.0027
#2	.0135	.0454	.0940	.0408	.3752	.0175	.0110	-.0075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None
Value								
Range								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**.0210**	**.0354**	F **2.132**	**.2112**	**.0201**	F **-6.346**	**.0536**	**.0304**
Stddev	.0033	.0021	.050	.0154	.0047	.004	.0161	.0037
%RSD	15.80	6.016	2.362	7.282	23.22	.0659	29.97	12.32
#1	.0233	.0339	2.168	.2004	.0168	-6.343	.0422	.0277
#2	.0186	.0369	2.097	.2221	.0234	-6.349	.0650	.0330
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			7.700			8.700		
Range			-50.00%			-50.00%		

Sample Name: CRI Acquired: 11/30/2009 15:59:18 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICAP ICP6-76-C

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**.0245**	**.0508**
Stddev	.0050	.0014
%RSD	20.25	2.685
#1	.0210	.0517
#2	.0280	.0498
Check ?	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	**1966.9**	**57459.**	**6879.0**	**347.44**
Stddev	1.4	41.	.1	2.32
%RSD	.07190	.07064	.00187	.66890
#1	1967.9	57488.	6879.0	349.08
#2	1965.9	57430.	6878.9	345.80

Sample Name: ICSA Acquired: 11/30/2009 16:02:02 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-82-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**17800.**	**.1093**	**-.2279**	**.0019**	**.1348**	**.0079**	**11710.**	**-.0388**	**.0259**
Stddev	80.	.0064	.0645	.0001	.0107	.0030	90.	.0112	.0018
%RSD	.4490	5.864	28.29	6.815	7.904	38.44	.7680	28.78	7.045
#1	17850.	.1139	-.2735	.0018	.1272	.0057	11770.	-.0309	.0272
#2	17740.	.1048	-.1823	.0020	.1423	.0100	11640.	-.0467	.0246
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1834**	**3245.**	**.0149**	**20510.**	**16780.**	**.3669**	**.1593**	**-.0117**	**-.0027**
Stddev	.0053	16.	.0012	66.	221.	.0013	.0172	.0011	.0025
%RSD	2.908	.4910	7.774	.3209	1.319	.3478	10.79	9.277	93.10
#1	.1796	3256.	.0158	20460.	16630.	.3660	.1471	-.0124	-.0044
#2	.1872	3234.	.0141	20550.	16940.	.3678	.1714	-.0109	-.0009
Check ?	None	Chk Pass	None	Chk Pass	None	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.4364**	**-.0313**	**-.0100**	**-11.18**	**.0559**	**.0137**	**1.258**	**-.0246**
Stddev	.1574	.0119	.0019	.24	.0048	.0049	.004	.0113
%RSD	36.06	38.00	19.04	2.158	8.543	35.62	.3270	45.97
#1	.3251	-.0229	-.0113	-11.35	.0592	.0103	1.256	-.0326
#2	.5477	-.0397	-.0086	-11.01	.0525	.0172	1.261	-.0166
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: ICSA Acquired: 11/30/2009 16:02:02 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-82-A

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1748.3	50556.	6625.3	263.95
Stddev	5.8	192.	15.6	1.88
%RSD	.33261	.37977	.23582	.71366
#1	1752.4	50692.	6614.3	265.28
#2	1744.2	50420.	6636.4	262.62

Sample Name: ICSAB Acquired: 11/30/2009 16:05:43 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-78-A

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/LR	umol/L	umol/L	umol/L	umol/L	umol/L	umol/LR	umol/L
Avg	R **17570.**	**7.518**	**-.1771**	**3.639**	**52.58**	**7.954**	R **11590.**	**9.107**
Stddev	89.	.070	.0153	.008	.15	.042	14.	.033
%RSD	.5087	.9263	8.617	.2293	.2899	.5318	.1202	.3589
#1	17500.	7.469	-.1879	3.645	52.47	7.924	11580.	9.084
#2	17630.	7.567	-.1663	3.633	52.69	7.984	11600.	9.130
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/LR	umol/L	umol/L	umol/LR	umol/L	umol/L
Avg	**7.634**	**7.872**	R **3247.**	**4.852**	**20310.**	R **16780.**	**8.837**	**8.825**
Stddev	.007	.015	2.	.044	75.	67.	.006	.036
%RSD	.0964	.1877	.0695	.9002	.3709	.3974	.0676	.4068
#1	7.629	7.862	3249.	4.883	20360.	16730.	8.833	8.799
#2	7.640	7.883	3245.	4.821	20250.	16830.	8.842	8.850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value Range								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**-.0147**	**15.03**	**.4126**	**-.0424**	**8.648**	**-12.35**	**9.760**	**15.31**
Stddev	.0038	.05	.1569	.0221	.038	.40	.033	.18
%RSD	26.06	.3410	38.03	52.10	.4417	3.234	.3399	1.205
#1	-.0174	14.99	.5236	-.0268	8.621	-12.63	9.737	15.44
#2	-.0120	15.06	.3017	-.0580	8.675	-12.07	9.783	15.17
Check ?	None	Chk Pass	None	None	Chk Pass	None	Chk Pass	Chk Pass
Value Range								

Sample Name: ICSAB Acquired: 11/30/2009 16:05:43 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: ICP6-78-A

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**1.254**	**-.0044**
Stddev	.003	.0006
%RSD	.2708	14.74
#1	1.251	-.0048
#2	1.256	-.0039
Check ?	None	None
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1735.8**	**50721.**	**6605.3**	**263.73**
Stddev	.7	3.	35.2	4.51
%RSD	.03928	.00547	.53279	1.7110
#1	1735.3	50723.	6580.4	260.54
#2	1736.3	50719.	6630.2	266.92

Sample Name: RB Acquired: 11/30/2009 16:09:17 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	F **1.620**	**.0024**	**-.0237**	F **.0117**	**.0066**	**.0003**	F **1.044**	F **.0035**
#1	1.575	-.0065	.0009	.0113	.0071	.0006	1.176	.0086
#2	1.665	.0114	-.0483	.0122	.0061	.0000	.9120	-.0015

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0090**	**-.0033**	F **.3757**	**-.0031**	**1.792**	**.0008**	**-.0026**	**.0020**
#1	.0076	.0012	.3975	-.0009	1.890	.0014	-.0054	.0009
#2	.0104	-.0077	.3539	-.0053	1.694	.0002	.0002	.0031

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.7709**	**.0148**	**.0041**	**-19.71**	**.0108**	F **.0001**	**.0017**	**.0018**
#1	-.0172	.0666	.0096	-19.44	.0100	.0019	.0037	-.0020
#2	-1.525	-.0369	-.0013	-19.97	.0116	-.0017	-.0002	.0057

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1971.8**	**57130.**	**6866.2**	**347.61**
#1	1972.3	57027.	6886.5	348.09
#2	1971.2	57233.	6845.8	347.13

Sample Name: K0911038-007 Acquired: 11/30/2009 16:12:20 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.853**	**.0186**	**.0412**	F **.0308**	**-.0020**	**.0021**	**21.86**	F **.0769**
#1	8.836	.0198	.0317	.0300	-.0035	.0019	21.75	.0769
#2	8.870	.0173	.0506	.0316	-.0005	.0023	21.97	.0768

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0109**	**.1166**	**19.75**	**.0694**	**30.22**	**.6779**	**-.0024**	**.0159**
#1	.0107	.1023	19.72	.0725	30.21	.6842	-.0026	.0222
#2	.0112	.1308	19.77	.0663	30.23	.6716	-.0021	.0097

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**8.102**	**.0165**	**-.0027**	**154.2**	**.0276**	**16.02**	**.1035**	**-.0020**
#1	8.309	.0107	-.0025	154.5	.0246	15.97	.1037	.0008
#2	7.895	.0223	-.0029	154.0	.0307	16.07	.1033	-.0048

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1992.5**	**57358.**	**6926.2**	**348.83**
#1	1996.0	57156.	6953.2	347.90
#2	1989.0	57559.	6899.2	349.76

Sample Name: K0911038-009 Acquired: 11/30/2009 16:15:21 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**19.01**	**-.0028**	**-.0027**	**.2787**	**.0127**	**.0038**	**75.79**	**.1087**	**.0128**
#1	19.17	-.0088	-.0362	.2786	.0035	.0028	75.55	.1090	.0141
#2	18.85	.0033	.0308	.2787	.0219	.0048	76.02	.1084	.0115

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.3290**	**48.42**	**.2708**	**27.20**	**1.364**	**-.0030**	**.0357**	**1.671**	**-.0152**
#1	.3209	48.45	.2696	27.11	1.358	-.0024	.0319	1.354	-.0152
#2	.3372	48.40	.2721	27.30	1.370	-.0036	.0395	1.988	-.0152

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**.0023**	**-12.75**	**.0422**	**18.75**	**.1887**	**-.0011**
#1	.0073	-12.79	.0394	18.76	.1882	-.0110
#2	-.0027	-12.70	.0450	18.74	.1893	.0089

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1986.3**	**57682.**	**7020.2**	**345.02**
#1	1986.0	58026.	7047.8	343.15
#2	1986.5	57339.	6992.6	346.88

Sample Name: K0911121-001 Acquired: 11/30/2009 16:18:26 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**14.67**	**-.0007**	**-.0007**	**.0839**	**.0022**	**.0041**	**46.12**	**.1146**	**.0088**
#1	14.74	-.0052	.0072	.0825	.0088	.0033	46.04	.1217	.0072
#2	14.60	.0038	-.0085	.0852	-.0045	.0049	46.20	.1076	.0105

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2394**	**29.91**	**.1386**	**43.93**	**1.132**	**-.0033**	**.0532**	**5.734**	**.0040**
#1	.2457	29.81	.1448	43.96	1.131	-.0038	.0507	5.955	.0031
#2	.2332	30.01	.1324	43.91	1.133	-.0027	.0556	5.513	.0048

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0004**	**47.47**	**.0479**	**28.36**	**.1739**	**-.0010**
#1	.0007	47.91	.0582	28.19	.1725	.0019
#2	-.0016	47.03	.0376	28.54	.1753	-.0039

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1989.6**	**57409.**	**7015.4**	**346.33**
#1	1992.2	57381.	7036.9	347.22
#2	1987.1	57438.	6993.9	345.44

Sample Name: K0911038-003 Acquired: 11/30/2009 16:21:42 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**35.15**	**.0157**	**-.0150**	**.1195**	**.0245**	**.0085**	**61.09**	**.2801**	**.0199**
#1	35.14	-.0013	-.0270	.1190	.0258	.0091	61.16	.2879	.0233
#2	35.15	.0326	-.0030	.1199	.0232	.0080	61.03	.2723	.0164

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2966**	**71.91**	**.2678**	**71.11**	**1.911**	**-.0033**	**.0433**	**13.54**	**-.0025**
#1	.3028	71.98	.2622	70.68	1.904	-.0039	.0446	13.23	.0286
#2	.2903	71.85	.2735	71.54	1.917	-.0027	.0419	13.85	-.0336

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0035**	**223.6**	**.1084**	**38.74**	**.5833**	**-.0015**
#1	-.0044	221.9	.1059	38.62	.5814	.0065
#2	-.0026	225.3	.1109	38.86	.5853	-.0096

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1995.2**	**57511.**	**7025.5**	**343.47**
#1	1996.9	57519.	6994.8	343.68
#2	1993.5	57504.	7056.3	343.25

Sample Name: K0911038-004 Acquired: 11/30/2009 16:24:46 Type: Unk
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment: 1/20 DIL

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**9.449**	**.0187**	**-.0390**	**.0297**	**.0027**	**.0019**	**15.83**	**.0915**	**.0070**
#1	9.366	.0153	-.0342	.0285	-.0002	.0017	15.88	.0968	.0073
#2	9.532	.0220	-.0437	.0308	.0055	.0021	15.78	.0861	.0066

Elem	Cu3273	Fe2599	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.2251**	**14.62**	**.1126**	**25.72**	**.3507**	**.0013**	**.0235**	**6.738**	**-.0311**
#1	.2272	14.53	.1080	25.78	.3502	-.0001	.0259	5.467	-.0688
#2	.2230	14.70	.1171	25.65	.3513	.0027	.0211	8.010	.0067

Elem	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**-.0006**	**115.9**	**.0482**	**15.15**	**.1264**	**-.0023**
#1	.0006	116.7	.0447	15.04	.1294	-.0040
#2	-.0018	115.1	.0518	15.25	.1233	-.0006

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1996.8**	**57357.**	**6904.1**	**348.04**
#1	1995.8	57285.	6943.2	348.47
#2	1997.8	57429.	6865.1	347.61

Sample Name: CCVA2 Acquired: 11/30/2009 16:27:48 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**8.776**	**2.075**	**3.440**	**1.844**	**28.35**	**2.248**	**6.407**	**4.823**	**4.273**
Stddev	.038	.002	.009	.005	.01	.010	.167	.012	.021
%RSD	.4324	.1107	.2471	.2600	.0223	.4602	2.608	.2401	.4816
#1	8.749	2.076	3.446	1.848	28.34	2.241	6.289	4.815	4.288
#2	8.802	2.073	3.434	1.841	28.35	2.256	6.526	4.831	4.259
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**3.964**	**4.577**	**1.203**	**10.75**	**10.67**	**4.663**	**4.487**	**2.632**	**4.287**
Stddev	.015	.056	.005	.06	.05	.006	.036	.002	.007
%RSD	.3822	1.229	.4150	.5370	.4709	.1349	.8066	.0734	.1573
#1	3.953	4.617	1.200	10.71	10.64	4.667	4.513	2.631	4.282
#2	3.974	4.537	1.207	10.79	10.71	4.658	4.461	2.633	4.292
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**65.47**	**3.186**	**2.299**	**-4.123**	**5.011**	**3.824**	**5.303**	**1.220**
Stddev	.28	.021	.010	.313	.006	.005	.008	.003
%RSD	.4315	.6661	.4444	7.592	.1261	.1391	.1526	.2055
#1	65.67	3.171	2.292	-3.902	5.016	3.820	5.309	1.222
#2	65.27	3.201	2.306	-4.344	5.007	3.828	5.297	1.218
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCVA2 Acquired: 11/30/2009 16:27:48 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1993.5	56980.	6879.0	344.95
Stddev	6.2	104.	33.2	.09
%RSD	.31109	.18194	.48324	.02528
#1	1997.9	56907.	6902.5	345.01
#2	1989.1	57053.	6855.5	344.89

Sample Name: CCVB2 Acquired: 11/30/2009 16:30:44 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677	Co2307
Units	umol/L	umol/L	umol/L	umol/LR	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**367.8**	**-.1086**	**13.62**	R **73.37**	**-.0041**	**-.0005**	**248.8**	**-.0018**	**.0068**
Stddev	.1	.0071	.07	.77	.0014	.0005	2.9	.0007	.0052
%RSD	.0199	6.579	.5391	1.053	33.85	104.8	1.165	39.02	77.49
#1	367.8	-.1036	13.67	72.82	-.0031	-.0001	246.7	-.0013	.0105
#2	367.7	-.1137	13.57	73.92	-.0051	-.0009	250.8	-.0022	.0031
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value									
Range									

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**-.0683**	**178.6**	**.0033**	**414.1**	**409.9**	**.0069**	**-.0222**	**-.0002**	**-.0015**
Stddev	.0002	.5	.0055	1.8	5.9	.0014	.0049	.0003	.0011
%RSD	.2489	.2569	167.4	.4357	1.429	20.48	22.20	194.2	77.00
#1	-.0684	178.3	-.0006	412.8	405.7	.0079	-.0257	-.0004	-.0023
#2	-.0682	178.9	.0072	415.4	414.0	.0059	-.0187	.0001	-.0007
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062	Ti3361	Tl1908
Units	umol/L	umol/L	umol/L	ppm	umol/L	umol/L	umol/L	umol/L
Avg	**258.5**	**.0055**	**.0016**	**421.9**	**.0148**	**.0029**	**3.322**	**.0000**
Stddev	1.3	.0044	.0042	5.3	.0109	.0035	.007	.0008
%RSD	.5215	81.41	260.6	1.261	73.38	123.0	.2078	3035.
#1	257.6	.0086	-.0014	418.1	.0071	.0004	3.327	-.0005
#2	259.5	.0023	.0046	425.6	.0225	.0053	3.317	.0006
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Sample Name: CCVB2 Acquired: 11/30/2009 16:30:44 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1974.0	56704.	6918.6	333.10
Stddev	.6	191.	2.0	.84
%RSD	.03245	.33727	.02953	.25192
#1	1974.4	56569.	6920.0	332.51
#2	1973.5	56839.	6917.1	333.70

Sample Name: CCB2 Acquired: 11/30/2009 16:34:17 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	Cd2265	Ca3158	Cr2677
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.1227**	**.0074**	**-.0067**	**.0008**	**-.0014**	**.0005**	**.1932**	**.0053**
Stddev	.0195	.0166	.0134	.0003	.0048	.0011	.0203	.0029
%RSD	15.88	223.6	198.7	44.30	346.7	220.3	10.52	55.42
#1	.1365	-.0043	.0027	.0005	-.0047	.0013	.1788	.0032
#2	.1089	.0192	-.0162	.0010	.0020	-.0003	.2076	.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2307	Cu3273	Fe2599	Pb2203	Mg2790	Mg2852	Mn2576	Mn2605
Units	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L	umol/L
Avg	**.0004**	**.0097**	**-.0156**	**-.0003**	**-.0139**	**-.0864**	**.0000**	**.0111**
Stddev	.0007	.0001	.0206	.0008	1.199	.0039	.0023	.0143
%RSD	210.5	.6212	132.6	282.5	8658.	4.513	8067.	128.3
#1	.0009	.0096	-.0301	.0003	-.8618	-.0892	.0016	.0010
#2	-.0002	.0097	-.0010	-.0008	.8341	-.0837	-.0016	.0212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	V_2924	Zn2062
Units	umol/L	umol/L	umol/L	umol/L	umol/L	ppm	umol/L	umol/L
Avg	**-.0005**	**.0043**	**-.7089**	**-.0257**	**-.0044**	F **-19.73**	**.0197**	**-.0022**
Stddev	.0008	.0043	.0617	.0191	.0044	.05	.0022	.0007
%RSD	170.5	100.2	8.710	74.31	101.0	.2590	11.38	30.94
#1	-.0011	.0013	-.7525	-.0392	-.0012	-19.70	.0213	-.0017
#2	.0001	.0074	-.6652	-.0122	-.0075	-19.77	.0181	-.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit						8.700		
Low Limit						-8.700		

Sample Name: CCB2 Acquired: 11/30/2009 16:34:17 Type: QC
Method: 09DSEM(v3) Mode: CONC Corr. Factor: 1.000000
User: admin StarLIMS#: 181176 File Name: 113009C Database: 1109
Comment:

Elem	Ti3361	Tl1908
Units	umol/L	umol/L
Avg	**-.0006**	**-.0066**
Stddev	.0017	.0054
%RSD	268.5	81.38
#1	-.0019	-.0104
#2	.0006	-.0028
Check ?	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	**1965.0**	**57176.**	**6929.3**	**347.25**
Stddev	1.3	130.	8.0	2.14
%RSD	.06403	.22784	.11601	.61632
#1	1965.9	57084.	6923.6	348.77
#2	1964.1	57268.	6935.0	345.74

Butyltins

Organic Analysis:
Butyltins (as cation)

Summary Package

Sample and QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038

Cover Page - Organic Analysis Data Package
Butyltins (as cation)

Sample Name	Lab Code	Date Collected	Date Received
LPRT01C	K0911038-001	11/09/2009	11/12/2009
LPRT09H	K0911038-002	11/09/2009	11/12/2009
LPRT02C	K0911038-003	11/09/2009	11/12/2009
LPRT01E	K0911038-004	11/09/2009	11/12/2009
LPRT06C	K0911038-005	11/09/2009	11/12/2009
LPRT06C-FD	K0911038-006	11/09/2009	11/12/2009
LPRT02D	K0911038-007	11/10/2009	11/12/2009
LPRT03C	K0911038-008	11/10/2009	11/12/2009
LPRT09A	K0911038-009	11/10/2009	11/12/2009

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: 11/30/09 Title: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT01C	**Units:**	ug/Kg
Lab Code:	K0911038-001	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F032.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.23 g	**Column2:**	RTX-35
% Solids:	51.8		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.0	U	2.0	*
688-73-3	Tri-n-butyltin	**6.5**		2.0	
1002-53-5	Di-n-butyltin	**30**		2.0	
2406-65-7	n-Butyltin	**18**		2.0	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	37	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT09H	**Units:**	ug/Kg
Lab Code:	K0911038-002	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F011.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.17 g	**Column2:**	RTX-35
% Solids:	82.5		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.3	U	1.3	
688-73-3	Tri-n-butyltin	1.3	U	1.3	
1002-53-5	Di-n-butyltin	**1.6**	P	1.3	
2406-65-7	n-Butyltin	1.3	U	1.3	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	77	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT02C	**Units:**	ug/Kg
Lab Code:	K0911038-003	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F012.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.03 g	**Column2:**	RTX-35
% Solids:	34.1		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	3.0	U	3.0	
688-73-3	Tri-n-butyltin	**31**		3.0	
1002-53-5	Di-n-butyltin	**49**		3.0	
2406-65-7	n-Butyltin	**12**		3.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	62	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT01E	**Units:**	ug/Kg
Lab Code:	K0911038-004	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F013.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.01 g	**Column2:**	RTX-35
% Solids:	64.4		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.6	U	1.6	
688-73-3	Tri-n-butyltin	**8.2**		1.6	
1002-53-5	Di-n-butyltin	**14**		1.6	
2406-65-7	n-Butyltin	**5.9**		1.6	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	73	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT06C	**Units:**	ug/Kg
Lab Code:	K0911038-005	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F033.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.12 g	**Column2:**	RTX-35
% Solids:	46.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.2	U	2.2	*
688-73-3	Tri-n-butyltin	**7.8**		2.2	
1002-53-5	Di-n-butyltin	**20**		2.2	
2406-65-7	n-Butyltin	**16**		2.2	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	28	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT06C-FD	**Units:**	ug/Kg
Lab Code:	K0911038-006	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F019.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.06 g	**Column2:**	RTX-35
% Solids:	45.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.2	U	2.2	
688-73-3	Tri-n-butyltin	**13**		2.2	
1002-53-5	Di-n-butyltin	**38**		2.2	
2406-65-7	n-Butyltin	**13**		2.2	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	62	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT02D	**Units:**	ug/Kg
Lab Code:	K0911038-007	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F034.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.07 g	**Column2:**	RTX-35
% Solids:	31.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	3.2	U	3.2	*
688-73-3	Tri-n-butyltin	**8.2**		3.2	
1002-53-5	Di-n-butyltin	**18**		3.2	
2406-65-7	n-Butyltin	**7.3**		3.2	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	29	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT03C	**Units:**	ug/Kg
Lab Code:	K0911038-008	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F021.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.08 g	**Column2:**	RTX-35
% Solids:	35.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.8	U	2.8	
688-73-3	Tri-n-butyltin	**13**		2.8	
1002-53-5	Di-n-butyltin	**29**		2.8	
2406-65-7	n-Butyltin	**21**		2.8	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	57	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT09A	**Units:**	ug/Kg
Lab Code:	K0911038-009	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F035.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.39 g	**Column2:**	RTX-35
% Solids:	67.5		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.5	U	1.5	*
688-73-3	Tri-n-butyltin	**5.5**		1.5	
1002-53-5	Di-n-butyltin	**6.7**		1.5	
2406-65-7	n-Butyltin	1.5	U	1.5	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	32	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG0910708-4	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F007.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.39 g	**Column2:**	RTX-35
% Solids:	NA		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	0.99	U	0.99	
688-73-3	Tri-n-butyltin	0.99	U	0.99	
1002-53-5	Di-n-butyltin	0.99	U	0.99	
2406-65-7	n-Butyltin	0.99	U	0.99	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	61	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038

Surrogate Recovery Summary
Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
LPRT01C	K0911038-001	37
LPRT09H	K0911038-002	77
LPRT02C	K0911038-003	62
LPRT01E	K0911038-004	73
LPRT06C	K0911038-005	28
LPRT06C-FD	K0911038-006	62
LPRT02D	K0911038-007	29
LPRT03C	K0911038-008	57
LPRT09A	K0911038-009	32
Method Blank	KWG0910708-4	61
Batch QC	K0911048-002	64
Batch QCMS	KWG0910708-1	51
Batch QCDMS	KWG0910708-2	60
Lab Control Sample	KWG0910708-3	59

Surrogate Recovery Control Limits (%)

Sur1 = Tri-n-propyltin 18-95

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Extracted:**	11/17/2009
Sample Matrix:	Sediment	**Date Analyzed:**	11/24/2009

Matrix Spike/Duplicate Matrix Spike Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K0911048-002	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG0910708

		Batch QCMS KWG0910708-1 Matrix Spike			Batch QCDMS KWG0910708-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Tetra-n-butyltin	ND	14.4	31.2	46	16.6	31.2	53	10-120	14	40
Tri-n-butyltin	ND	15.0	27.7	54	17.9	27.7	65	10-118	18	40
Di-n-butyltin	ND	4.96	24.0	21	6.12	24.0	26	10-145	21	40
n-Butyltin	ND	9.53	19.5	49	11.2	19.5	58	10-126	16	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Extracted: 11/17/2009
Date Analyzed: 11/24/2009

Lab Control Spike Summary
Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG0910708

	Lab Control Sample KWG0910708-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Tetra-n-butyltin	14.1	25.0	56	30-110
Tri-n-butyltin	13.2	22.2	59	25-101
Di-n-butyltin	12.7	19.2	66	35-108
n-Butyltin	9.76	15.6	63	20-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental	**Service Request:**	K0911048
Project:	Passaic RI/FS Sediment	**Date Collected:**	NA
Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Standard Reference Material
Butyltins

Sample Name:	NRC PACS-2	Units:	ug/Kg (ppb)
Lab Code:	KWG0910708-5	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Result Notes
Tri-n-butyltin Cation	Method	Krone	2400 ± 320	774	
Di-n-butyltin Cation	Method	Krone	2140 ± 290	1070	
n-Butyltin Cation	Method	Krone	670 ± 74	457	

Approved By: _____ Date: 112809

LCS (44)/091898p
K0911048svg.ccl - srm 11/24/2009

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Extracted: 11/17/2009
Date Analyzed: 11/24/2009
Time Analyzed: 01:09

Method Blank Summary
Butyltins (as cation)

Sample Name: Method Blank
Lab Code: KWG0910708-4

File ID: J:\GC26\DATA\112309B\1123F007.D
Instrument ID: GC26

Extraction Method: METHOD
Analysis Method: Krone

Level: Low
Extraction Lot: KWG0910708

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0910708-3	J:\GC26\DATA\112309B\1123F008.D	11/24/09	01:25
LPRT09H	K0911038-002	J:\GC26\DATA\112309B\1123F011.D	11/24/09	02:14
LPRT02C	K0911038-003	J:\GC26\DATA\112309B\1123F012.D	11/24/09	02:30
LPRT01E	K0911038-004	J:\GC26\DATA\112309B\1123F013.D	11/24/09	02:46
LPRT06C-FD	K0911038-006	J:\GC26\DATA\112309B\1123F019.D	11/24/09	04:56
LPRT03C	K0911038-008	J:\GC26\DATA\112309B\1123F021.D	11/24/09	05:28
Batch QC	K0911048-002	J:\GC26\DATA\112309B\1123F024.D	11/24/09	06:17
Batch QCDMS	KWG0910708-2	J:\GC26\DATA\112309B\1123F026.D	11/24/09	06:49
Batch QCMS	KWG0910708-1	J:\GC26\DATA\112309B\1123FX25.D	11/24/09	07:06
LPRT01C	K0911038-001	J:\GC26\DATA\112409A\1124F032.D	11/24/09	19:40
LPRT06C	K0911038-005	J:\GC26\DATA\112409A\1124F033.D	11/24/09	19:57
LPRT02D	K0911038-007	J:\GC26\DATA\112409A\1124F034.D	11/24/09	20:15
LPRT09A	K0911038-009	J:\GC26\DATA\112409A\1124F035.D	11/24/09	20:32

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Extracted:**	11/17/2009
Sample Matrix:	Sediment	**Date Analyzed:**	11/24/2009
		Time Analyzed:	01:25

Lab Control Sample Summary
Butyltins (as cation)

Sample Name:	Lab Control Sample	**File ID:**	J:\GC26\DATA\112309B\1123F008.D
Lab Code:	KWG0910708-3	**Instrument ID:**	GC26
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG0910708

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0910708-4	J:\GC26\DATA\112309B\1123F007.D	11/24/09	01:09
LPRT09H	K0911038-002	J:\GC26\DATA\112309B\1123F011.D	11/24/09	02:14
LPRT02C	K0911038-003	J:\GC26\DATA\112309B\1123F012.D	11/24/09	02:30
LPRT01E	K0911038-004	J:\GC26\DATA\112309B\1123F013.D	11/24/09	02:46
LPRT06C-FD	K0911038-006	J:\GC26\DATA\112309B\1123F019.D	11/24/09	04:56
LPRT03C	K0911038-008	J:\GC26\DATA\112309B\1123F021.D	11/24/09	05:28
Batch QC	K0911048-002	J:\GC26\DATA\112309B\1123F024.D	11/24/09	06:17
Batch QCDMS	KWG0910708-2	J:\GC26\DATA\112309B\1123F026.D	11/24/09	06:49
Batch QCMS	KWG0910708-1	J:\GC26\DATA\112309B\1123FX25.D	11/24/09	07:06
LPRT01C	K0911038-001	J:\GC26\DATA\112409A\1124F032.D	11/24/09	19:40
LPRT06C	K0911038-005	J:\GC26\DATA\112409A\1124F033.D	11/24/09	19:57
LPRT02D	K0911038-007	J:\GC26\DATA\112409A\1124F034.D	11/24/09	20:15
LPRT09A	K0911038-009	J:\GC26\DATA\112409A\1124F035.D	11/24/09	20:32

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-1

Level ID	File ID	Level ID	File ID
A	J:\GC26\DATA\112309\1123FA14.D	E	J:\GC26\DATA\112309\1123FA18.D
B	J:\GC26\DATA\112309\1123FA15.D	F	J:\GC26\DATA\112309\1123FA19.D
C	J:\GC26\DATA\112309\1123FA16.D	G	J:\GC26\DATA\112309\1123FA20.D
D	J:\GC26\DATA\112309\1123FA17.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Tetra-n-butyltin				B	5.0	25200	C	20	26000	D	50	25800	E	200	28800
	F	500	31900	G	1000	36300									
Tri-n-butyltin	A	1.8	30100	B	4.5	32100	C	18	38400	D	45	38100	E	180	40700
	F	450	42800	G	890	42000									
Di-n-butyltin	A	1.5	43400	B	3.8	45000	C	15	47700	D	38	49500	E	150	54500
	F	380	60300	G	770	57200									
n-Butyltin	A	1.2	48600	B	3.1	50500	C	12	48600	D	31	57500	E	120	62900
	F	310	68900	G	620	71700									
Tri-n-propyltin				B	5.0	24500	C	20	30800	D	50	30300	E	200	35700
	F	500	36800	G	1000	37200									

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-1

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Tetra-n-butyltin	MS	AverageRF	% RSD	15.1		≤ 20
Tri-n-butyltin	MS	AverageRF	% RSD	12.9		≤ 20
Di-n-butyltin	MS	AverageRF	% RSD	12.4		≤ 20
n-Butyltin	MS	AverageRF	% RSD	16.6		≤ 20
Tri-n-propyltin	SURR	AverageRF	% RSD	15.2		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009
Date Analyzed: 11/23/2009

Second Source Calibration Verification
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration ID: CAL9045
Units: ng/mL

File ID: J:\GC26\DATA\112309\1123FA21.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	54	29000	31200	8	NA	± 25 %	AverageRF
Tri-n-butyltin	45	43	37700	36700	-3	NA	± 25 %	AverageRF
Di-n-butyltin	38	38	51100	50800	-1	NA	± 25 %	AverageRF
n-Butyltin	31	32	58400	59100	1	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-35

Level ID	File ID	Level ID	File ID
A	J:\GC26\DATA\112309\1123FA14.D\1123FA14c.d	E	J:\GC26\DATA\112309\1123FA18.D\1123FA18c.d
B	J:\GC26\DATA\112309\1123FA15.D\1123FA15c.d	F	J:\GC26\DATA\112309\1123FA19.D\1123FA19c.d
C	J:\GC26\DATA\112309\1123FA16.D\1123FA16c.d	G	J:\GC26\DATA\112309\1123FA20.D\1123FA20c.d
D	J:\GC26\DATA\112309\1123FA17.D\1123FA17c.d		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Tetra-n-butyltin				B	5.0	16000	C	20	17900	D	50	12000	E	200	14200
	F	500	17400	G	1000	19800									
Tri-n-butyltin				B	4.5	17100	C	18	28000	D	45	21900	E	180	23300
	F	450	25700	G	890	27700									
Di-n-butyltin				B	3.8	32500	C	15	32800	D	38	29000	E	150	30000
	F	380	34400	G	770	36200									
n-Butyltin				B	3.1	29800	C	12	39300	D	31	34300	E	120	37000
	F	310	39800	G	620	42600									
Tri-n-propyltin				B	5.0	22700	C	20	20100	D	50	19200	E	200	18200
	F	500	19600	G	1000	22500									

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-35

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Tetra-n-butyltin	MS	AverageRF	% RSD	17.3		≤ 20
Tri-n-butyltin	MS	AverageRF	% RSD	17.2		≤ 20
Di-n-butyltin	MS	AverageRF	% RSD	8.3		≤ 20
n-Butyltin	MS	AverageRF	% RSD	12.2		≤ 20
Tri-n-propyltin	SURR	AverageRF	% RSD	9.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009
Date Analyzed: 11/23/2009

Second Source Calibration Verification
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration ID: CAL9045
Units: ng/mL

File ID: J:\GC26\DATA\112309\1123FA21.D\1123FA21c.d

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	SSV RF	%D		%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	66	16200	21500	32	*	NA	± 25 %	AverageRF
Tri-n-butyltin	45	48	24000	25700	7		NA	± 25 %	AverageRF
Di-n-butyltin	38	45	32500	38400	18		NA	± 25 %	AverageRF
n-Butyltin	31	37	37100	44600	20		NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F003.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	42	29000	24200	-16	NA	± 25 %	AverageRF
Tri-n-butyltin	45	44	37700	37200	-2	NA	± 25 %	AverageRF
Di-n-butyltin	38	37	51100	49800	-2	NA	± 25 %	AverageRF
n-Butyltin	31	29	58400	54800	-6	NA	± 25 %	AverageRF
Tri-n-propyltin	50	47	32500	30800	-5	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F003.D\1123F003C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	38	16200	12400	-23	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	24000	22200	-7	NA	± 25 %	AverageRF
Di-n-butyltin	38	31	32500	25900	-20	NA	± 25 %	AverageRF
n-Butyltin	31	30	37100	35900	-3	NA	± 25 %	AverageRF
Tri-n-propyltin	50	46	20400	18600	-8	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

File ID: J:\GC26\DATA\112309B\1123F017.D

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL
Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	38	29000	22300	-23	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	37700	34900	-8	NA	± 25 %	AverageRF
Di-n-butyltin	38	32	51100	43000	-16	NA	± 25 %	AverageRF
n-Butyltin	31	29	58400	55200	-6	NA	± 25 %	AverageRF
Tri-n-propyltin	50	44	32500	28700	-12	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F017.D\1123F017C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	37	16200	12100	-25	*	NA	± 25 %	AverageRF
Tri-n-butyltin	45	42	24000	22400	-7		NA	± 25 %	AverageRF
Di-n-butyltin	38	36	32500	30400	-7		NA	± 25 %	AverageRF
n-Butyltin	31	31	37100	36400	-2		NA	± 25 %	AverageRF
Tri-n-propyltin	50	41	20400	16800	-17		NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

File ID: J:\GC26\DATA\112309B\1123F029.D

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL
Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	42	29000	24500	-15	NA	± 25 %	AverageRF
Tri-n-butyltin	45	43	37700	36700	-3	NA	± 25 %	AverageRF
Di-n-butyltin	38	36	51100	47600	-7	NA	± 25 %	AverageRF
n-Butyltin	31	29	58400	54400	-7	NA	± 25 %	AverageRF
Tri-n-propyltin	50	46	32500	30200	-7	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F029.D\1123F029C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	43	16200	14000	-14	NA	± 25 %	AverageRF
Tri-n-butyltin	45	36	24000	19200	-20	NA	± 25 %	AverageRF
Di-n-butyltin	38	34	32500	28500	-12	NA	± 25 %	AverageRF
n-Butyltin	31	28	37100	33000	-11	NA	± 25 %	AverageRF
Tri-n-propyltin	50	45	20400	18400	-10	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

File ID: J:\GC26\DATA\112409A\1124F028.D

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL
Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	41	29000	23600	-19	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	37700	34700	-8	NA	± 25 %	AverageRF
Di-n-butyltin	38	32	51100	43300	-15	NA	± 25 %	AverageRF
n-Butyltin	31	31	58400	57400	-2	NA	± 25 %	AverageRF
Tri-n-propyltin	50	46	32500	29700	-9	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL

File ID: J:\GC26\DATA\112409A\1124F028.D\1124F028C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	45	16200	14500	-11	NA	± 25 %	AverageRF
Tri-n-butyltin	45	43	24000	23400	-3	NA	± 25 %	AverageRF
Di-n-butyltin	38	35	32500	30100	-7	NA	± 25 %	AverageRF
n-Butyltin	31	31	37100	37000	0	NA	± 25 %	AverageRF
Tri-n-propyltin	50	45	20400	18500	-9	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL

File ID: J:\GC26\DATA\112409A\1124F038.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	36	29000	21100	-27	*	NA	± 25 %	AverageRF
Tri-n-butyltin	45	37	37700	31300	-17		NA	± 25 %	AverageRF
Di-n-butyltin	38	29	51100	39300	-23		NA	± 25 %	AverageRF
n-Butyltin	31	24	58400	45300	-22		NA	± 25 %	AverageRF
Tri-n-propyltin	50	40	32500	25800	-21		NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL

File ID: J:\GC26\DATA\112409A\1124F038.D\1124F038C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	47	16200	15400	-5	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	24000	22000	-8	NA	± 25 %	AverageRF
Di-n-butyltin	38	33	32500	27600	-15	NA	± 25 %	AverageRF
n-Butyltin	31	27	37100	32200	-13	NA	± 25 %	AverageRF
Tri-n-propyltin	50	44	20400	18100	-11	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038

Analysis Run Log
Butyltins (as cation)

Analysis Method: Krone

Analysis Lot: KWG0911115
Instrument ID: GC26
Column: RTX-1

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1123F002.D	Instrument Blank	KWG0911115-1	11/23/2009	23:48		11/23/2009	23:59
1123F003.D	Continuing Calibration Verification	KWG0911115-2	11/24/2009	00:04		11/24/2009	00:15
1123F004.D	Instrument Blank	KWG0911115-1	11/24/2009	00:21		11/24/2009	00:32
1123F005.D	ZZZZZZ	ZZZZZZ	11/24/2009	00:37		11/24/2009	00:48
1123F006.D	ZZZZZZ	ZZZZZZ	11/24/2009	00:53		11/24/2009	01:04
1123F007.D	Method Blank	KWG0910708-4	11/24/2009	01:09		11/24/2009	01:20
1123F008.D	Lab Control Sample	KWG0910708-3	11/24/2009	01:25		11/24/2009	01:36
1123F009.D	ZZZZZZ	ZZZZZZ	11/24/2009	01:41		11/24/2009	01:52
1123F011.D	LPRT09H	K0911038-002	11/24/2009	02:14		11/24/2009	02:25
1123F012.D	LPRT02C	K0911038-003	11/24/2009	02:30		11/24/2009	02:41
1123F013.D	LPRT01E	K0911038-004	11/24/2009	02:46		11/24/2009	02:57
1123F016.D	Instrument Blank	KWG0911115-3	11/24/2009	04:07		11/24/2009	04:18
1123F017.D	Continuing Calibration Verification	KWG0911115-4	11/24/2009	04:24		11/24/2009	04:35
1123F018.D	Instrument Blank	KWG0911115-3	11/24/2009	04:40		11/24/2009	04:51
1123F019.D	LPRT06C-FD	K0911038-006	11/24/2009	04:56		11/24/2009	05:07
1123F021.D	LPRT03C	K0911038-008	11/24/2009	05:28		11/24/2009	05:40
1123F023.D	ZZZZZZ	ZZZZZZ	11/24/2009	06:01		11/24/2009	06:12
1123F024.D	Batch QC	K0911048-002	11/24/2009	06:17		11/24/2009	06:28
1123F026.D	Batch QCDMS	KWG0910708-2	11/24/2009	06:49		11/24/2009	07:00
1123FX25.D	Batch QCMS	KWG0910708-1	11/24/2009	07:06		11/24/2009	07:17
1123F028.D	Instrument Blank	KWG0911115-5	11/24/2009	08:11		11/24/2009	08:22
1123F029.D	Continuing Calibration Verification	KWG0911115-6	11/24/2009	08:27		11/24/2009	08:38

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038

Analysis Run Log
Butyltins (as cation)

Analysis Method: Krone

Analysis Lot: KWG0911153
Instrument ID: GC26
Column: RTX-1

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1124F002.D	Instrument Blank	KWG0911153-1	11/24/2009	11:10		11/24/2009	11:21
1124F003.D	Continuing Calibration Verification	KWG0911153-2	11/24/2009	11:26		11/24/2009	11:37
1124F004.D	Instrument Blank	KWG0911153-1	11/24/2009	11:42		11/24/2009	11:53
1124F005.D	ZZZZZZ	ZZZZZZ	11/24/2009	11:58		11/24/2009	12:09
1124F006.D	ZZZZZZ	ZZZZZZ	11/24/2009	12:14		11/24/2009	12:25
1124F007.D	ZZZZZZ	ZZZZZZ	11/24/2009	12:30		11/24/2009	12:41
1124F008.D	ZZZZZZ	ZZZZZZ	11/24/2009	12:46		11/24/2009	12:57
1124F009.D	ZZZZZZ	ZZZZZZ	11/24/2009	13:03		11/24/2009	13:14
1124F011.D	ZZZZZZ	ZZZZZZ	11/24/2009	13:35		11/24/2009	13:46
1124F013.D	ZZZZZZ	ZZZZZZ	11/24/2009	14:18		11/24/2009	14:29
1124F015.D	Instrument Blank	KWG0911153-3	11/24/2009	14:51		11/24/2009	15:02
1124F016.D	Continuing Calibration Verification	KWG0911153-4	11/24/2009	15:08		11/24/2009	15:19
1124F017.D	Instrument Blank	KWG0911153-3	11/24/2009	15:25		11/24/2009	15:36
1124F018.D	ZZZZZZ	ZZZZZZ	11/24/2009	15:41		11/24/2009	15:52
1124F020.D	ZZZZZZ	ZZZZZZ	11/24/2009	16:15		11/24/2009	16:26
1124F021.D	ZZZZZZ	ZZZZZZ	11/24/2009	16:32		11/24/2009	16:43
1124F022.D	ZZZZZZ	ZZZZZZ	11/24/2009	16:49		11/24/2009	17:00
1124F023.D	ZZZZZZ	ZZZZZZ	11/24/2009	17:06		11/24/2009	17:17
1124F024.D	ZZZZZZ	ZZZZZZ	11/24/2009	17:23		11/24/2009	17:34
1124F025.D	ZZZZZZ	ZZZZZZ	11/24/2009	17:40		11/24/2009	17:51
1124F027.D	Instrument Blank	KWG0911153-5	11/24/2009	18:14		11/24/2009	18:25
1124F028.D	Continuing Calibration Verification	KWG0911153-6	11/24/2009	18:31		11/24/2009	18:42
1124F029.D	Instrument Blank	KWG0911153-5	11/24/2009	18:48		11/24/2009	18:59
1124F030.D	ZZZZZZ	ZZZZZZ	11/24/2009	19:05		11/24/2009	19:16
1124F031.D	ZZZZZZ	ZZZZZZ	11/24/2009	19:22		11/24/2009	19:33
1124F032.D	LPRT01C	K0911038-001	11/24/2009	19:40		11/24/2009	19:51
1124F033.D	LPRT06C	K0911038-005	11/24/2009	19:57		11/24/2009	20:08
1124F034.D	LPRT02D	K0911038-007	11/24/2009	20:15		11/24/2009	20:26
1124F035.D	LPRT09A	K0911038-009	11/24/2009	20:32		11/24/2009	20:43
1124F037.D	Instrument Blank	KWG0911153-7	11/24/2009	21:07		11/24/2009	21:18
1124F038.D	Continuing Calibration Verification	KWG0911153-8	11/24/2009	21:25		11/24/2009	21:36

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Extracted: 11/17/2009

Extraction Prep Log
Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Extraction Lot: KWG0910708
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
LPRT01C	K0911038-001	11/09/09	11/12/09	20.23g	4ml	51.8	
LPRT09H	K0911038-002	11/09/09	11/12/09	20.17g	4ml	82.5	
LPRT02C	K0911038-003	11/09/09	11/12/09	20.03g	4ml	34.1	
LPRT01E	K0911038-004	11/09/09	11/12/09	20.01g	4ml	64.4	
LPRT06C	K0911038-005	11/09/09	11/12/09	20.12g	4ml	46.9	
LPRT06C-FD	K0911038-006	11/09/09	11/12/09	20.06g	4ml	45.9	
LPRT02D	K0911038-007	11/10/09	11/12/09	20.07g	4ml	31.9	
LPRT03C	K0911038-008	11/10/09	11/12/09	20.08g	4ml	35.9	
LPRT09A	K0911038-009	11/10/09	11/12/09	20.39g	4ml	67.5	
Method Blank	KWG0910708-4	NA	NA	20.39g	4ml	NA	
Batch QC	K0911048-002	NA	NA	20.02g	4ml	80.0	
Batch QCMS	KWG0910708-1	NA	NA	20.02g	4ml	80.0	
Batch QCDMS	KWG0910708-2	NA	NA	20.02g	4ml	80.0	
Lab Control Sample	KWG0910708-3	NA	NA	20.00g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009

Butyltins (as cation)

Sample Name:	LPRT01C	**Units:**	ug/Kg
Lab Code:	K0911038-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	Krone		

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	2.0	6.5	5.4	18.5		1	11/24/09
Di-n-butyltin	2.0	30	29	3.4		1	11/24/09
n-Butyltin	2.0	18	18	0.0		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009

Butyltins (as cation)

Sample Name:	LPRT09H	**Units:**	ug/Kg
Lab Code:	K0911038-002	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Di-n-butyltin	1.3	1.6	2.6	47.6	P	1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Collected: 11/09/2009
Date Received: 11/12/2009
Date Extracted: 11/17/2009

Butyltins (as cation)

Sample Name: LPRT02C
Lab Code: K0911038-003
Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	3.0	31	28	10.2		1	11/24/09
Di-n-butyltin	3.0	49	48	2.1		1	11/24/09
n-Butyltin	3.0	12	11	8.7		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Collected: 11/09/2009
Date Received: 11/12/2009
Date Extracted: 11/17/2009

Butyltins (as cation)

Sample Name: LPRT01E
Lab Code: K0911038-004
Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	1.6	8.2	7.2	13.0		1	11/24/09
Di-n-butyltin	1.6	14	13	7.4		1	11/24/09
n-Butyltin	1.6	5.9	5.3	10.7		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009

Butyltins (as cation)

Sample Name:	LPRT06C	**Units:**	ug/Kg
Lab Code:	K0911038-005	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	2.2	7.8	7.8	0.0		1	11/24/09
Di-n-butyltin	2.2	20	19	5.1		1	11/24/09
n-Butyltin	2.2	16	15	6.5		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Collected: 11/09/2009
Date Received: 11/12/2009
Date Extracted: 11/17/2009

Butyltins (as cation)

Sample Name: LPRT06C-FD
Lab Code: K0911038-006
Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	2.2	13	12	8.0		1	11/24/09
Di-n-butyltin	2.2	38	36	5.4		1	11/24/09
n-Butyltin	2.2	13	13	0.0		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Collected: 11/10/2009
Date Received: 11/12/2009
Date Extracted: 11/17/2009

Butyltins (as cation)

Sample Name: LPRT02D
Lab Code: K0911038-007
Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	3.2	8.2	6.5	23.1		1	11/24/09
Di-n-butyltin	3.2	18	15	18.2		1	11/24/09
n-Butyltin	3.2	7.3	6.5	11.6		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Collected: 11/10/2009
Date Received: 11/12/2009
Date Extracted: 11/17/2009

Butyltins (as cation)

Sample Name: LPRT03C
Lab Code: K0911038-008
Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	2.8	13	11	16.7		1	11/24/09
Di-n-butyltin	2.8	29	28	3.5		1	11/24/09
n-Butyltin	2.8	21	18	15.4		1	11/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009

Butyltins (as cation)

Sample Name:	LPRT09A	**Units:**	ug/Kg
Lab Code:	K0911038-009	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Tri-n-butyltin	1.5	5.5	5.5	0.0		1	11/24/09
Di-n-butyltin	1.5	6.7	5.8	14.4		1	11/24/09

Organic Analysis:
Butyltins (as cation)

Validation Package

Organic Analysis:
Butyltins (as cation)

Validation Package

QC Reports

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038

Surrogate Recovery Summary
Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
Batch QC	K0911048-002	64
Batch QCMS	KWG0910708-1	51
Batch QCDMS	KWG0910708-2	60
Lab Control Sample	KWG0910708-3	59
LPRT01C	K0911038-001	37
LPRT09H	K0911038-002	77
LPRT02C	K0911038-003	62
LPRT01E	K0911038-004	73
LPRT06C	K0911038-005	28
LPRT06C-FD	K0911038-006	62
LPRT02D	K0911038-007	29
LPRT03C	K0911038-008	57
LPRT09A	K0911038-009	32
Method Blank	KWG0910708-4	61

Surrogate Recovery Control Limits (%)

Sur1 = Tri-n-propyltin 18-95

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Extracted:**	11/17/2009
Sample Matrix:	Sediment	**Date Analyzed:**	11/24/2009

Matrix Spike/Duplicate Matrix Spike Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K0911048-002	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG0910708

		Batch QCMS KWG0910708-1 Matrix Spike			Batch QCDMS KWG0910708-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Tetra-n-butyltin	ND	14.4	31.2	46	16.6	31.2	53	10-120	14	40
Tri-n-butyltin	ND	15.0	27.7	54	17.9	27.7	65	10-118	18	40
Di-n-butyltin	ND	4.96	24.0	21	6.12	24.0	26	10-145	21	40
n-Butyltin	ND	9.53	19.5	49	11.2	19.5	58	10-126	16	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Extracted:**	11/17/2009
Sample Matrix:	Sediment	**Date Analyzed:**	11/24/2009

Lab Control Spike Summary
Butyltins (as cation)

Extraction Method:	METHOD	**Units:**	ug/Kg
Analysis Method:	Krone	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG0910708

	Lab Control Sample KWG0910708-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Tetra-n-butyltin	14.1	25.0	56	30-110
Tri-n-butyltin	13.2	22.2	59	25-101
Di-n-butyltin	12.7	19.2	66	35-108
n-Butyltin	9.76	15.6	63	20-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Extracted:**	11/17/2009
Sample Matrix:	Sediment	**Date Analyzed:**	11/24/2009
		Time Analyzed:	01:09

Method Blank Summary
Butyltins (as cation)

Sample Name:	Method Blank	**File ID:**	J:\GC26\DATA\112309B\1123F007.D
Lab Code:	KWG0910708-4	**Instrument ID:**	GC26
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG0910708

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0910708-3	J:\GC26\DATA\112309B\1123F008.D	11/24/09	01:25
LPRT09H	K0911038-002	J:\GC26\DATA\112309B\1123F011.D	11/24/09	02:14
LPRT02C	K0911038-003	J:\GC26\DATA\112309B\1123F012.D	11/24/09	02:30
LPRT01E	K0911038-004	J:\GC26\DATA\112309B\1123F013.D	11/24/09	02:46
LPRT06C-FD	K0911038-006	J:\GC26\DATA\112309B\1123F019.D	11/24/09	04:56
LPRT03C	K0911038-008	J:\GC26\DATA\112309B\1123F021.D	11/24/09	05:28
Batch QC	K0911048-002	J:\GC26\DATA\112309B\1123F024.D	11/24/09	06:17
Batch QCDMS	KWG0910708-2	J:\GC26\DATA\112309B\1123F026.D	11/24/09	06:49
Batch QCMS	KWG0910708-1	J:\GC26\DATA\112309B\1123FX25.D	11/24/09	07:06
LPRT01C	K0911038-001	J:\GC26\DATA\112409A\1124F032.D	11/24/09	19:40
LPRT06C	K0911038-005	J:\GC26\DATA\112409A\1124F033.D	11/24/09	19:57
LPRT02D	K0911038-007	J:\GC26\DATA\112409A\1124F034.D	11/24/09	20:15
LPRT09A	K0911038-009	J:\GC26\DATA\112409A\1124F035.D	11/24/09	20:32

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Extracted:**	11/17/2009
Sample Matrix:	Sediment	**Date Analyzed:**	11/24/2009
		Time Analyzed:	01:25

Lab Control Sample Summary
Butyltins (as cation)

Sample Name:	Lab Control Sample	**File ID:**	J:\GC26\DATA\112309B\1123F008.D
Lab Code:	KWG0910708-3	**Instrument ID:**	GC26
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG0910708

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0910708-4	J:\GC26\DATA\112309B\1123F007.D	11/24/09	01:09
LPRT09H	K0911038-002	J:\GC26\DATA\112309B\1123F011.D	11/24/09	02:14
LPRT02C	K0911038-003	J:\GC26\DATA\112309B\1123F012.D	11/24/09	02:30
LPRT01E	K0911038-004	J:\GC26\DATA\112309B\1123F013.D	11/24/09	02:46
LPRT06C-FD	K0911038-006	J:\GC26\DATA\112309B\1123F019.D	11/24/09	04:56
LPRT03C	K0911038-008	J:\GC26\DATA\112309B\1123F021.D	11/24/09	05:28
Batch QC	K0911048-002	J:\GC26\DATA\112309B\1123F024.D	11/24/09	06:17
Batch QCDMS	KWG0910708-2	J:\GC26\DATA\112309B\1123F026.D	11/24/09	06:49
Batch QCMS	KWG0910708-1	J:\GC26\DATA\112309B\1123FX25.D	11/24/09	07:06
LPRT01C	K0911038-001	J:\GC26\DATA\112409A\1124F032.D	11/24/09	19:40
LPRT06C	K0911038-005	J:\GC26\DATA\112409A\1124F033.D	11/24/09	19:57
LPRT02D	K0911038-007	J:\GC26\DATA\112409A\1124F034.D	11/24/09	20:15
LPRT09A	K0911038-009	J:\GC26\DATA\112409A\1124F035.D	11/24/09	20:32

Organic Analysis:
Butyltins (as cation)

Validation Package

Raw Data

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT01C	**Units:**	ug/Kg
Lab Code:	K0911038-001	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F032.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.23 g	**Column2:**	RTX-35
% Solids:	51.8		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.0	U	2.0	*
688-73-3	Tri-n-butyltin	**6.5**		2.0	
1002-53-5	Di-n-butyltin	**30**		2.0	
2406-65-7	n-Butyltin	**18**		2.0	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	37	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112409A\1124F032.D
Lab ID: K0911038-001
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 19:40
Date Quantitated: 11/25/2009 08:27
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-27.3	NA	25	RO

Primary Review: 11/25/09

Secondary Review: 11/25/09

Exception Report

Data File: J:\GC26\DATA\112409A\1124F032.D\1124F032C.D
Lab ID: K0911038-001
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 19:40
Date Quantitated: 11/25/2009 08:27
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: 11/25/09

Secondary Review: 11/25/2009

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/09/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911153	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866943	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112409A\1124F032.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F032.D\1124F032c.d			**Vial:**	26
Acqu Date:	11/24/2009 19:40	**Quant Date:**	11/25/2009 08:27	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-001				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	1388494	929789	42.68	45.63			37OK
				%Recovery =	34OK	37OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000[CCV]	0.0000	0.84U	0.84U	0.84U
Tri-n-butyltin	7.52 +0.01	6.81	533882	406100	14.14	16.95	5.4	6.5	6.5
Di-n-butyltin	8.52	7.77	4031338	2429838	78.92	74.80	30	29	30
n-Butyltin	9.52 +0.01	8.72 +0.01	2762916	1795085	47.31	48.36	18	18	18

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.23 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	51.8 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F032.D\FPD1A.CH Vial: 26
Signal #2 : J:\GC26\DATA\112409A\1124F032.D\FPD2B.CH
Acq On : 24 Nov 2009 7:40 pm Operator: CCotnam
Sample : K0911038-001 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:27:01 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.24	5.65	1388494	929789	42.680	45.633
	Target Compounds						
3)	Tri-n-butyltin	7.52	6.81	533882	406100	14.143	16.951
4)	Di-n-butyltin	8.52	7.77	4031338	2429838	78.919	74.802
5)	n-Butyltin	9.52	8.72	2762916	1795085	47.314	48.358

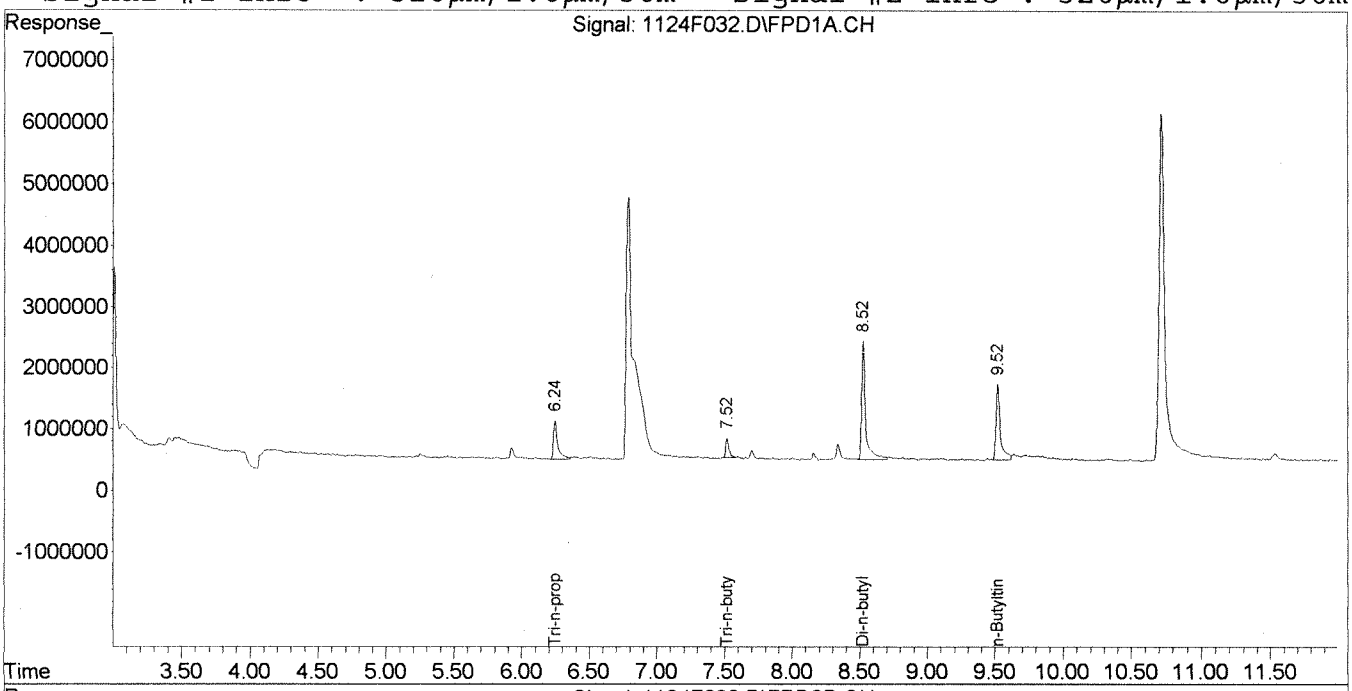
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

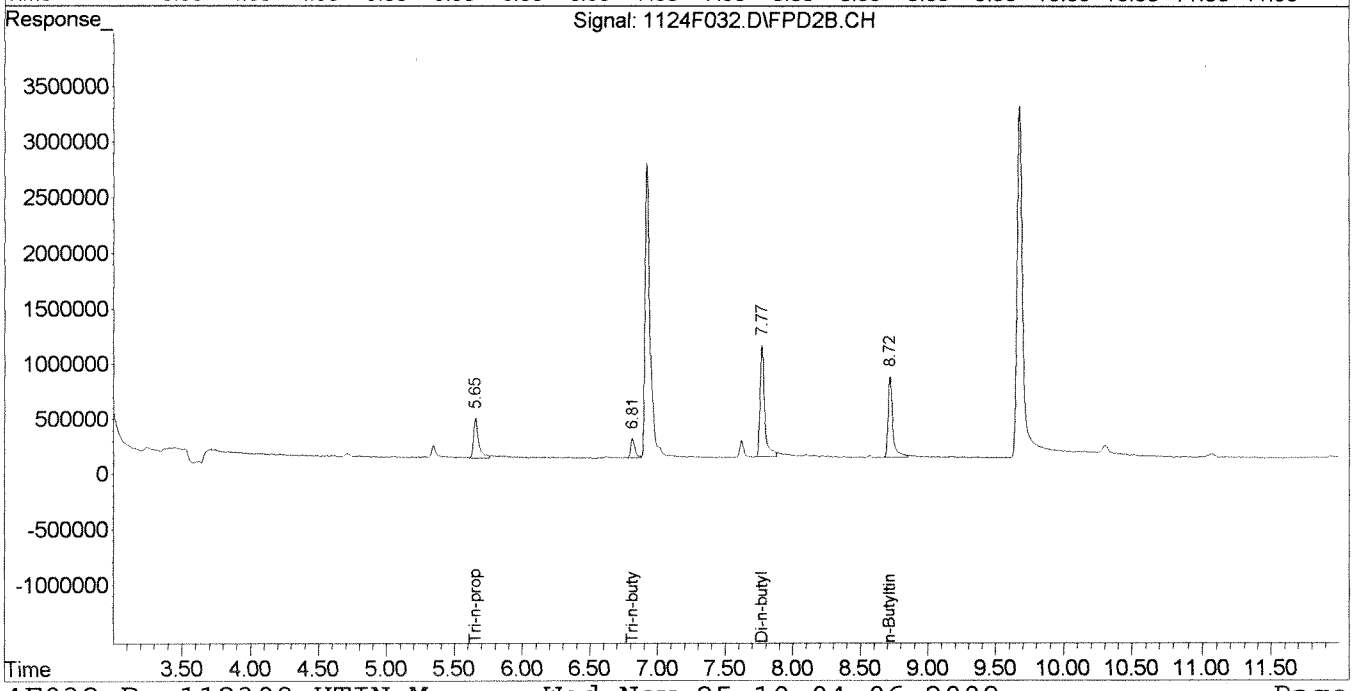
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F032.D\FPD1A.CH Vial: 26
Signal #2 : J:\GC26\DATA\112409A\1124F032.D\FPD2B.CH
Acq On : 24 Nov 2009 7:40 pm Operator: CCotnam
Sample : K0911038-001 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT09H	**Units:**	ug/Kg
Lab Code:	K0911038-002	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F011.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.17 g	**Column2:**	RTX-35
% Solids:	82.5		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.3	U	1.3	
688-73-3	Tri-n-butyltin	1.3	U	1.3	
1002-53-5	Di-n-butyltin	**1.6**	P	1.3	
2406-65-7	n-Butyltin	1.3	U	1.3	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	77	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F011.D
Lab ID: K0911038-002
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 02:14
Date Quantitated: 11/24/2009 08:58
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Exception Report

Data File: J:\GC26\DATA\112309B\1123F011.D\1123F011C.D
Lab ID: K0911038-002
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 02:14
Date Quantitated: 11/24/2009 08:58
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-25.1	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/09/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866944	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112309B\1123F011.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F011.D\1123F011c.d			**Vial:**	13
Acqu Date:	11/24/2009 02:14	**Quant Date:**	11/24/2009 08:58	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-002				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24 +0.01	5.65 +0.01	2908653	1962354	89.41	96.31			77OK
				%Recovery =	72OK	77OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000CCV	0.53U	0.53U	0.53U
Tri-n-butyltin	7.51	6.81 +0.01	172875	124515	4.58	5.20	1.1J	1.2J	1.2J
Di-n-butyltin	8.52 +0.01	7.77 +0.01	330956	352060m	6.48	10.84	1.6	2.6	2.6P
n-Butyltin	9.51 +0.01	8.71 +0.01	251600	169180	4.31	4.56	1.0J	1.1J	1.1J

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.17 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	82.5 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F011.D\FPD1A.CH Vial: 13
Signal #2 : J:\GC26\DATA\112309B\1123F011.D\FPD2B.CH
Acq On : 24 Nov 2009 2:14 am Operator: CCotnam
Sample : K0911038-002 | LPRT09H Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:59 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.24	5.65f	2908653	1962354	89.407	96.311
		Target Compounds						
3)		Tri-n-butyltin	7.51	6.81	172875	124515	4.580	5.197
4)		Di-n-butyltin	8.52	7.77	330956	352060	6.479	10.838m#
5)		n-Butyltin	9.51	8.71	251600	169180	4.309	4.558

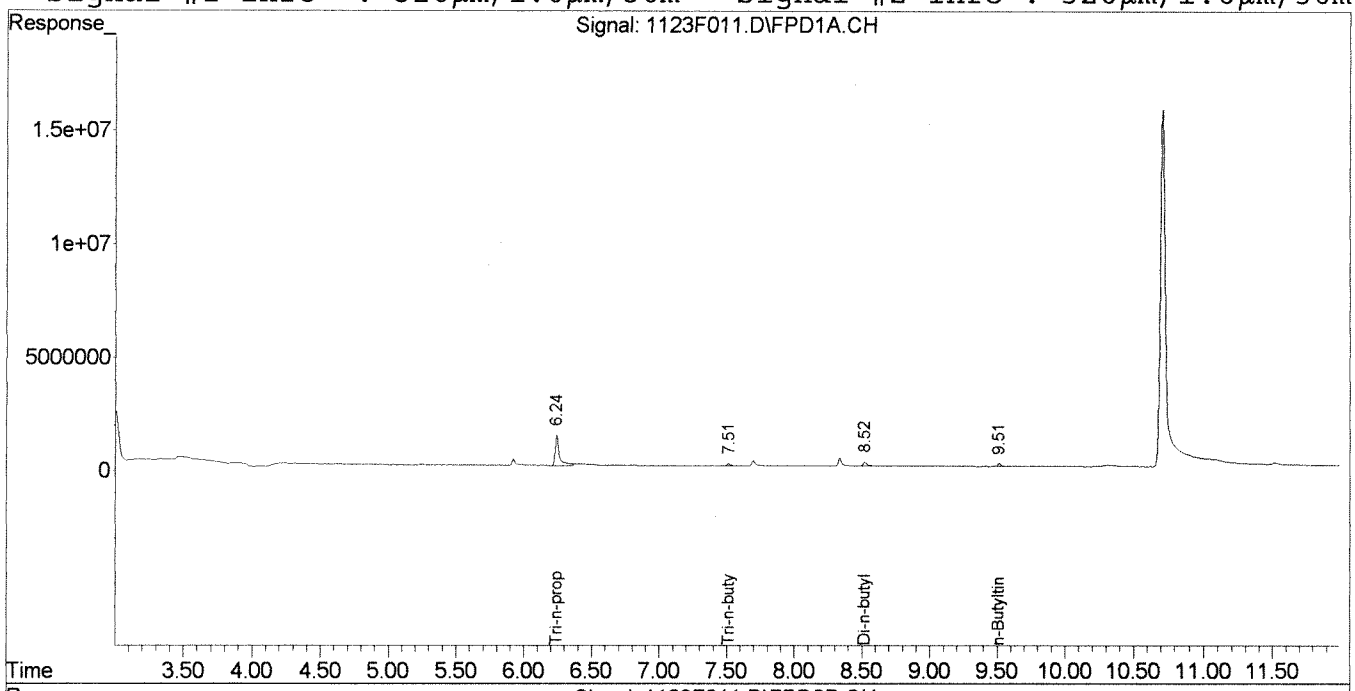
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

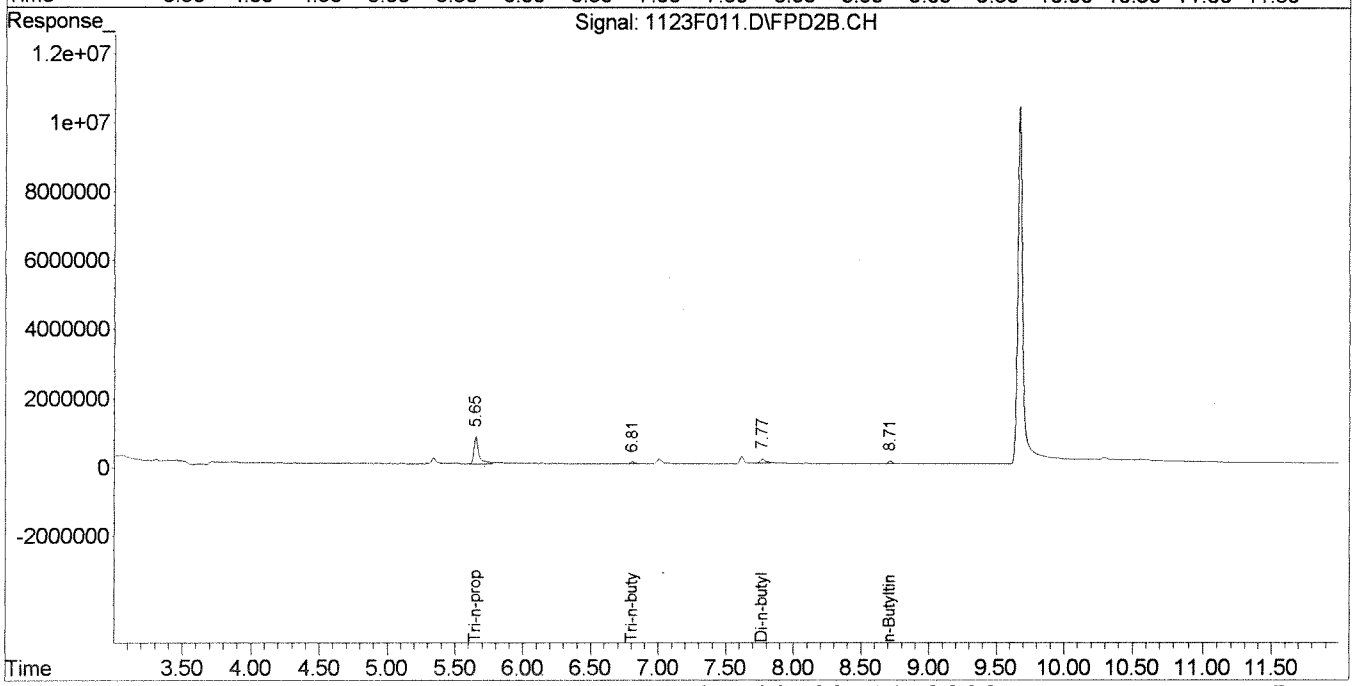
Quantitation Report (Not Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F011.D\FPD1A.CH Vial: 13
Signal #2 : J:\GC26\DATA\112309B\1123F011.D\FPD2B.CH
Acq On : 24 Nov 2009 2:14 am Operator: CCotnam
Sample : K0911038-002 | LPRT09H Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:58 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

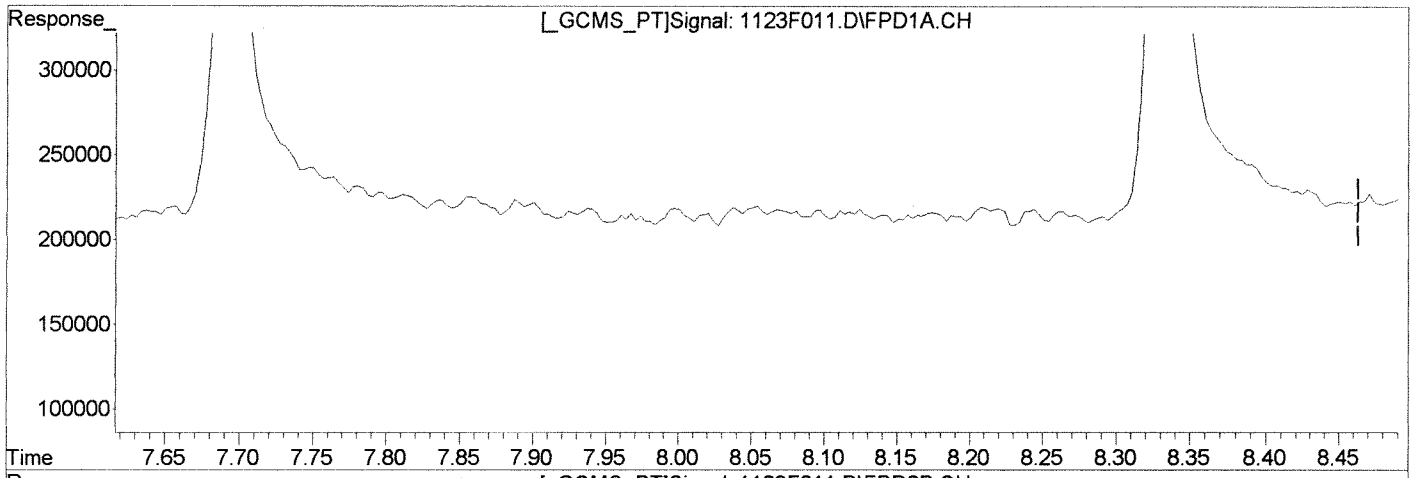


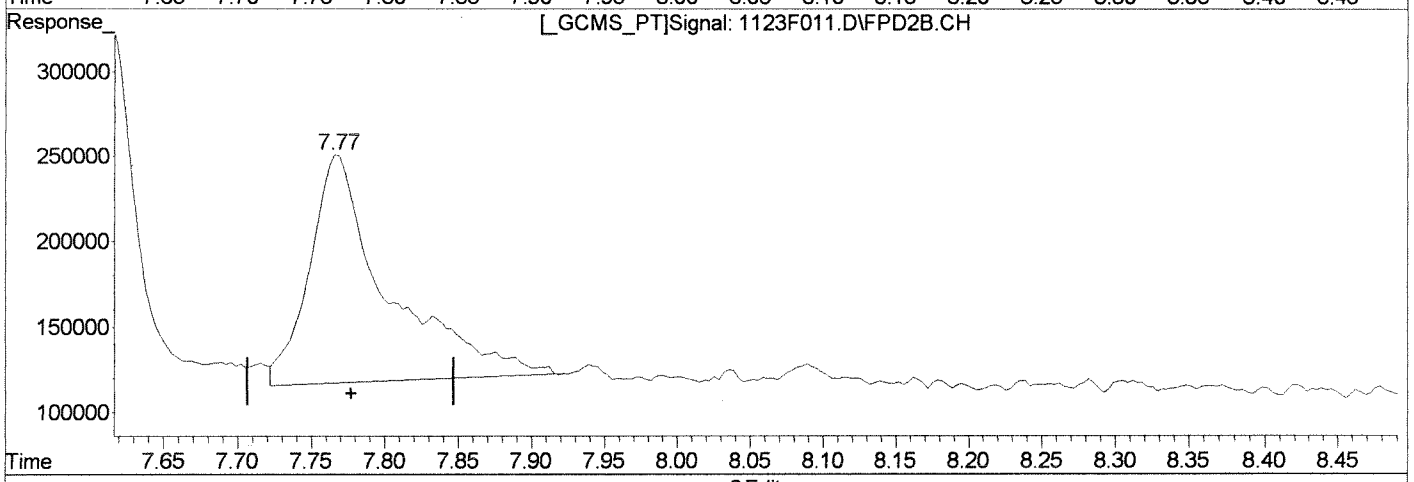


Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309B\1123F011.D\FPD1A.CH Vial: 13
Signal #2 : J:\GC26\DATA\112309B\1123F011.D\FPD2B.CH
Acq On : 24 Nov 2009 2:14 am Operator: CCotnam
Sample : K0911038-002 | LPRT09H Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:17 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.52min 6.479ng/mL

response 330956

(4) Di-n-butyltin #2

7.77min 15.136ng/mL

response 491680

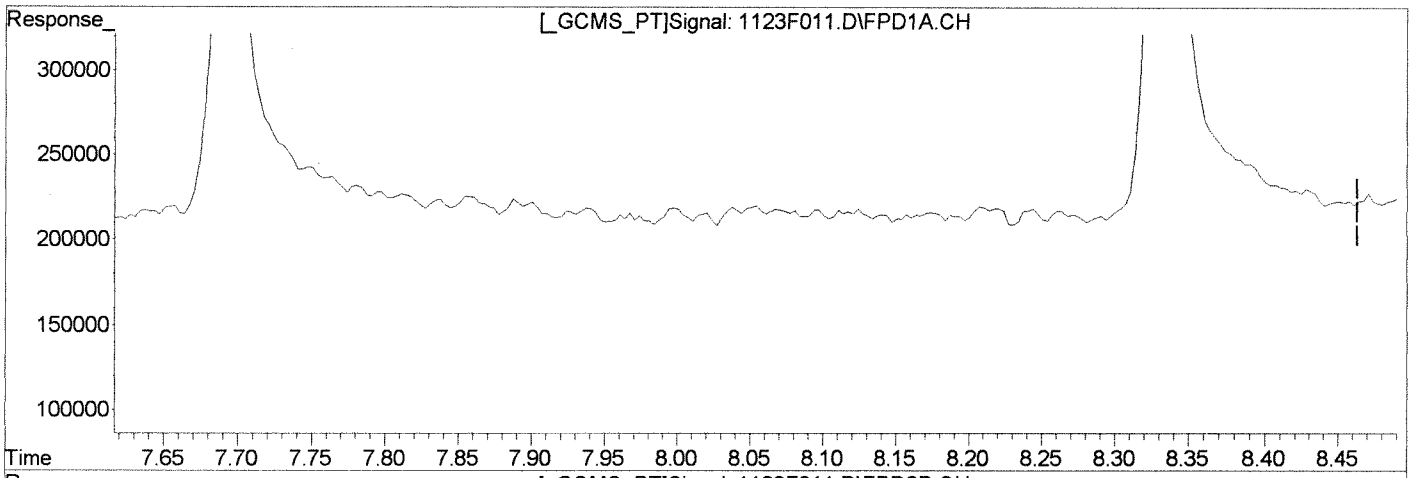
(+) = Expected Retention Time

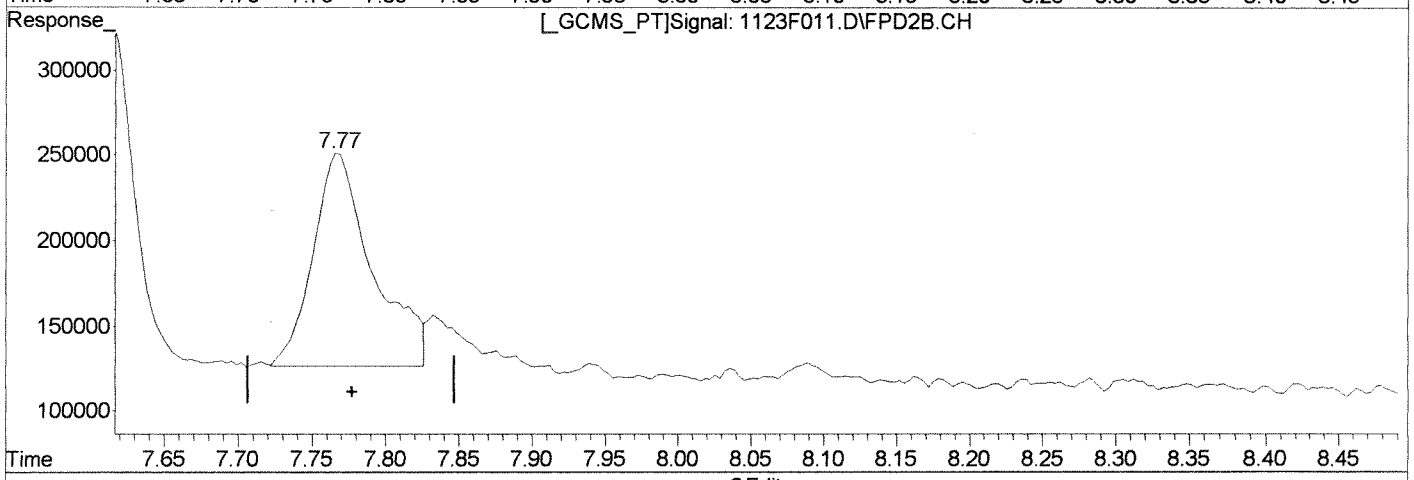
1123F011.D 112309-HTIN.M Tue Nov 24 08:58:55 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309B\1123F011.D\FPD1A.CH Vial: 13
Signal #2 : J:\GC26\DATA\112309B\1123F011.D\FPD2B.CH
Acq On : 24 Nov 2009 2:14 am Operator: CCotnam
Sample : K0911038-002 | LPRT09H Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:17 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





(4) Di-n-butyltin

8.52min 6.479ng/mL

response 330956

(4) Di-n-butyltin #2

7.77min 10.838ng/mL m

response 352060

Amer
Resume
[illegible]

(+) = Expected Retention Time

1123F011.D 112309-HTIN.M Tue Nov 24 08:59:01 2009

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT02C	**Units:**	ug/Kg
Lab Code:	K0911038-003	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F012.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.03 g	**Column2:**	RTX-35
% Solids:	34.1		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	3.0	U	3.0	
688-73-3	Tri-n-butyltin	**31**		3.0	
1002-53-5	Di-n-butyltin	**49**		3.0	
2406-65-7	n-Butyltin	**12**		3.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	62	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F012.D
Lab ID: K0911038-003
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 02:30
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: [illegible]

Exception Report

Data File: J:\GC26\DATA\112309B\1123F012.D\1123F012C.D
Lab ID: K0911038-003
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 02:30
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	NO
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-25.1	NA	25	NO

Primary Review: [signature]

Secondary Review: [signature]

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/09/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866945	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112309B\1123F012.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F012.D\1123F012c.d			**Vial:**	14
Acqu Date:	11/24/2009 02:30	**Quant Date:**	11/24/2009 08:18	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-003				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24 +0.01	5.65 +0.01	2411970	1586271	74.14	77.85			62OK
				%Recovery =	59OK	62OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000CCV	1.3U	1.3U	1.3U
Tri-n-butyltin	7.51	6.81 +0.01	1811782	1267861	48.00	52.92	28	31	31
Di-n-butyltin	8.52 +0.01	7.77 +0.01	4147240	2727900	81.19	83.98	48	49	49
n-Butyltin	9.51 +0.01	8.72 +0.02	1069203	755341	18.31	20.35	11	12	12

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.03 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	34.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F012.D\FPD1A.CH Vial: 14
Signal #2 : J:\GC26\DATA\112309B\1123F012.D\FPD2B.CH
Acq On : 24 Nov 2009 2:30 am Operator: CCotnam
Sample : K0911038-003 | LPRT02C Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:00 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.24	5.65	2411970	1586271	74.140	77.853
		Target Compounds						
3)		Tri-n-butyltin	7.51	6.81	1811782	1267861	47.997	52.923
4)		Di-n-butyltin	8.52	7.77	4147240	2727900	81.188	83.978
5)		n-Butyltin	9.51	8.72	1069203	755341	18.310	20.348

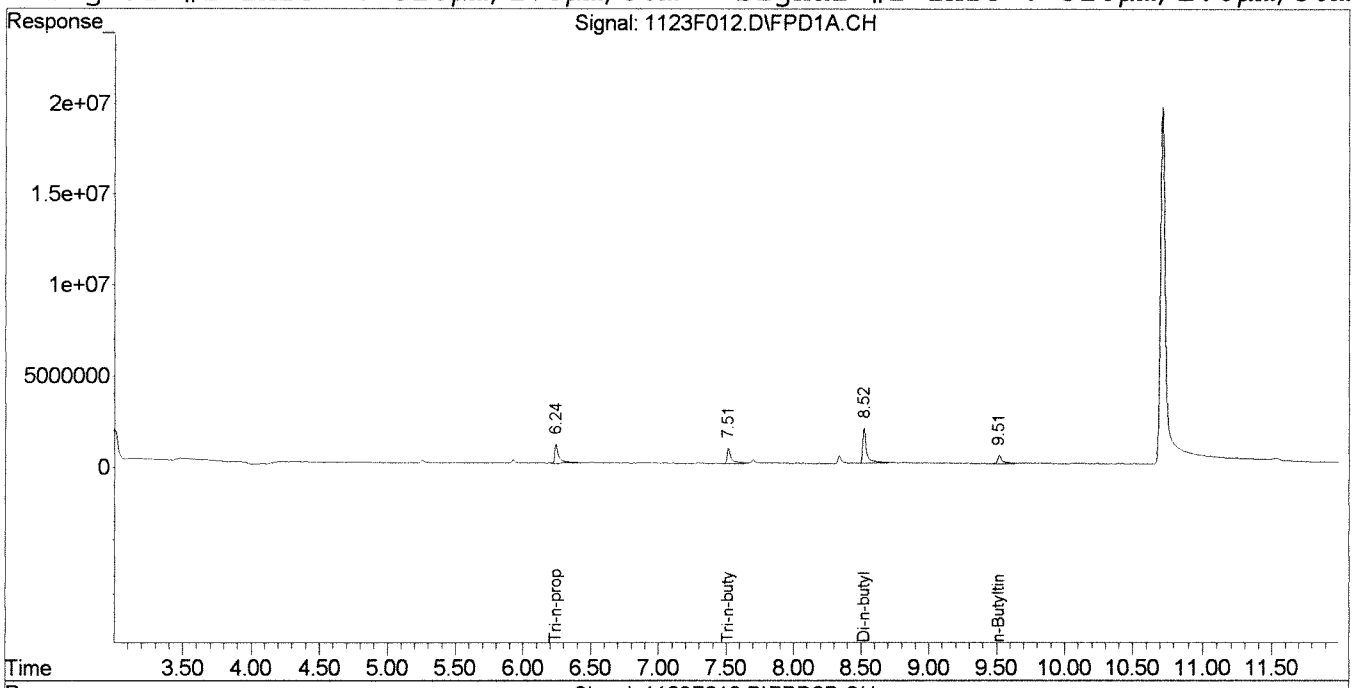
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

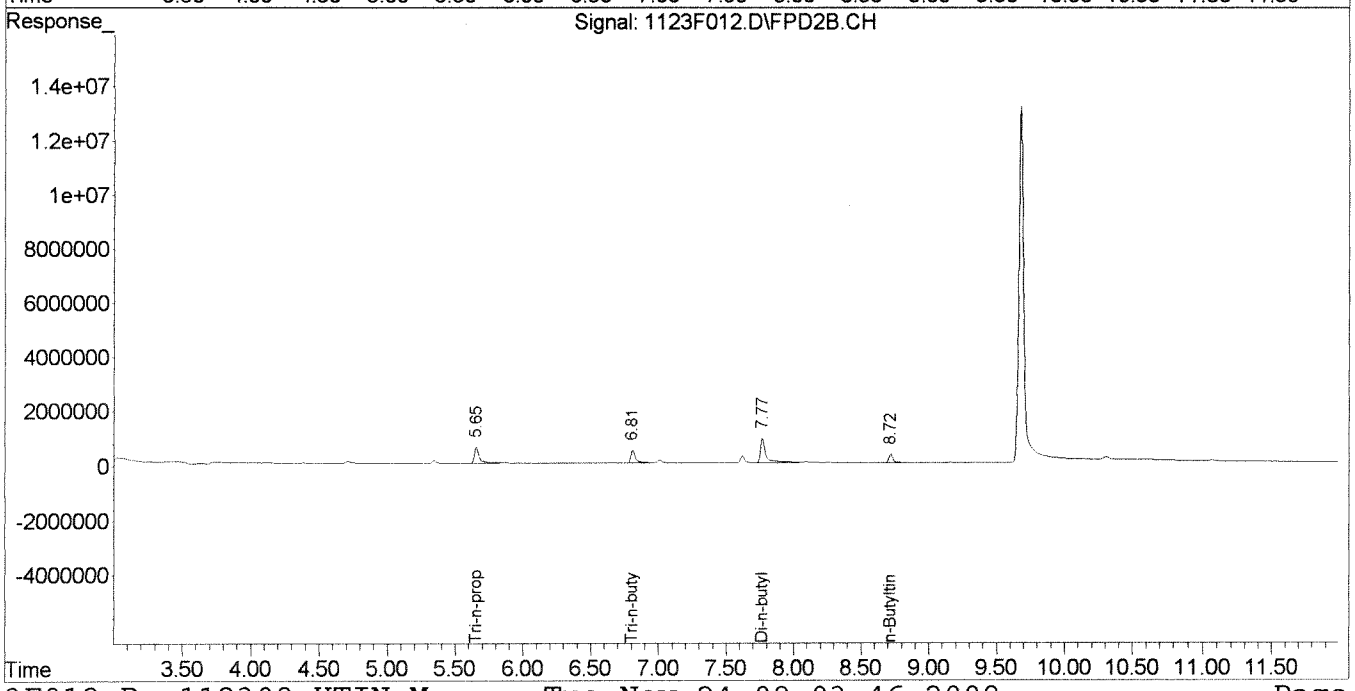
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F012.D\FPD1A.CH Vial: 14
Signal #2 : J:\GC26\DATA\112309B\1123F012.D\FPD2B.CH
Acq On : 24 Nov 2009 2:30 am Operator: CCotnam
Sample : K0911038-003 | LPRT02C Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT01E	**Units:**	ug/Kg
Lab Code:	K0911038-004	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F013.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.01 g	**Column2:**	RTX-35
% Solids:	64.4		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.6	U	1.6	
688-73-3	Tri-n-butyltin	**8.2**		1.6	
1002-53-5	Di-n-butyltin	**14**		1.6	
2406-65-7	n-Butyltin	**5.9**		1.6	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	73	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F013.D
Lab ID: K0911038-004
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 02:46
Date Quantitated: 11/24/2009 08:59
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: [illegible]

Exception Report

Data File: J:\GC26\DATA\112309B\1123F013.D\1123F013C.D
Lab ID: K0911038-004
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 02:46
Date Quantitated: 11/24/2009 08:59
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	NA
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-25.1	NA	25	NA

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/09/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866946	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112309B\1123F013.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F013.D\1123F013c.d			**Vial:**	15
Acqu Date:	11/24/2009 02:46	**Quant Date:**	11/24/2009 08:59	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-004				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	+0.01	5.65	+0.01	2930668	1849944	90.08	90.79			73OK
						%Recovery =	72OK	73OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin					0	0	0.0000	0.0000CCV	0.69U	0.69U	0.69U
Tri-n-butyltin	7.51		6.81	+0.01	870454	632959	23.06	26.42	7.2	8.2	8.2
Di-n-butyltin	8.52	+0.01	7.77	+0.01	2108258	1457134	41.27	44.86	13	14	14
n-Butyltin	9.52	+0.02	8.71	+0.01	996059m	701012	17.06	18.89	5.3	5.9	5.9

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.01 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	64.4 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F013.D\FPD1A.CH Vial: 15
Signal #2 : J:\GC26\DATA\112309B\1123F013.D\FPD2B.CH
Acq On : 24 Nov 2009 2:46 am Operator: CCotnam
Sample : K0911038-004 | LPRT01E Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:00 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.24	5.65	2930668	1849944	90.084	90.794
		Target Compounds						
3)		Tri-n-butyltin	7.51	6.81	870454	632959	23.060	26.421
4)		Di-n-butyltin	8.52	7.77	2108258	1457134	41.272	44.858
5)		n-Butyltin	9.52	8.71	996059	701012	17.057m	18.885

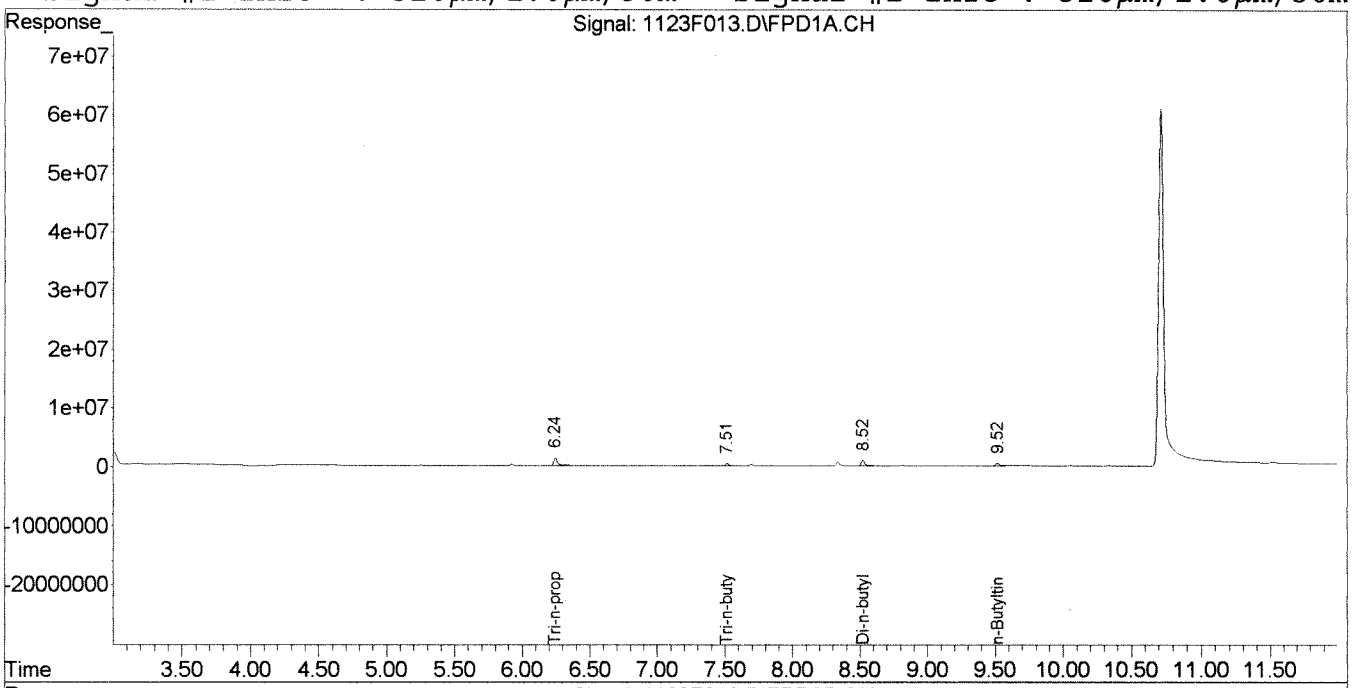
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

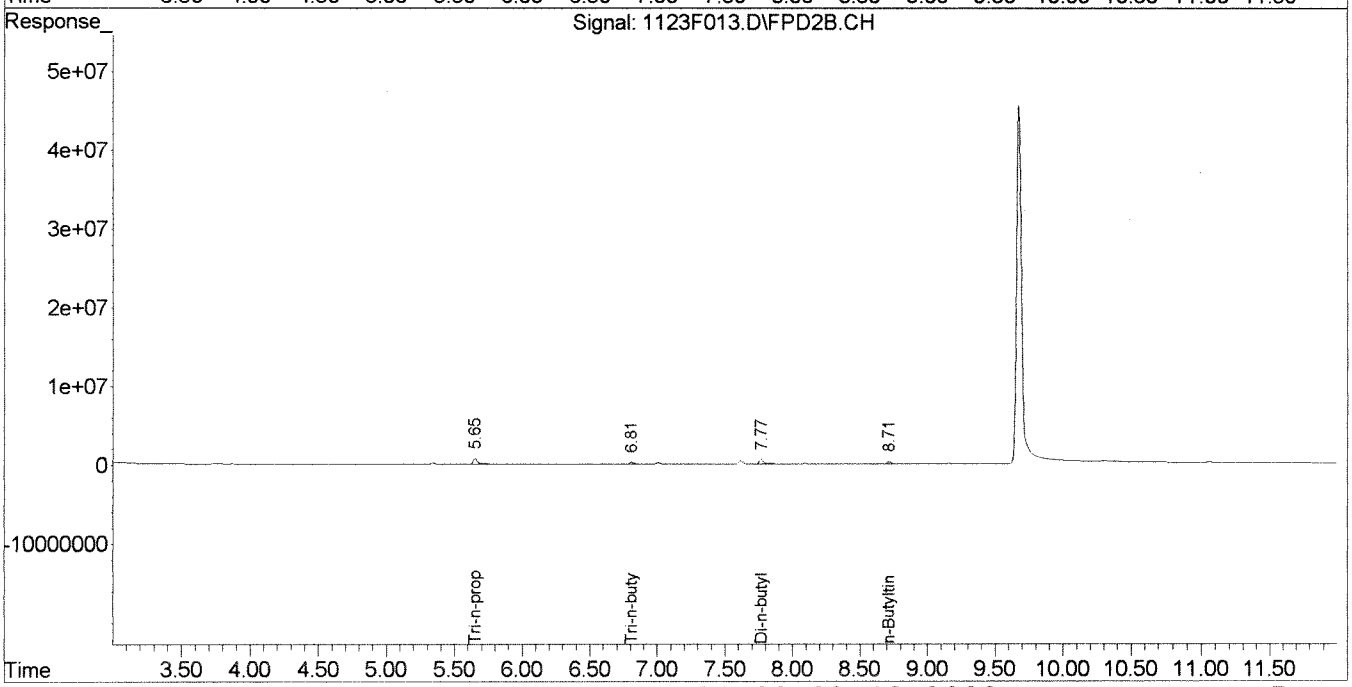
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F013.D\FPD1A.CH Vial: 15
Signal #2 : J:\GC26\DATA\112309B\1123F013.D\FPD2B.CH
Acq On : 24 Nov 2009 2:46 am Operator: CCotnam
Sample : K0911038-004 | LPRT01E Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:59 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 μL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320μm/1.0μm/30m Signal #2 Info : 320μm/1.0μm/30m

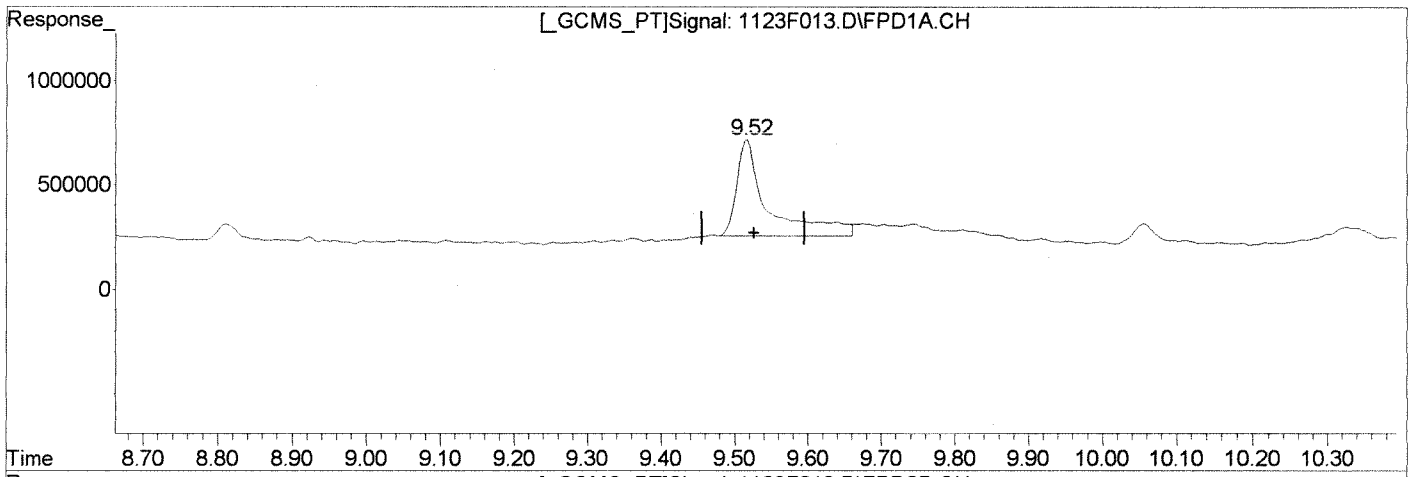


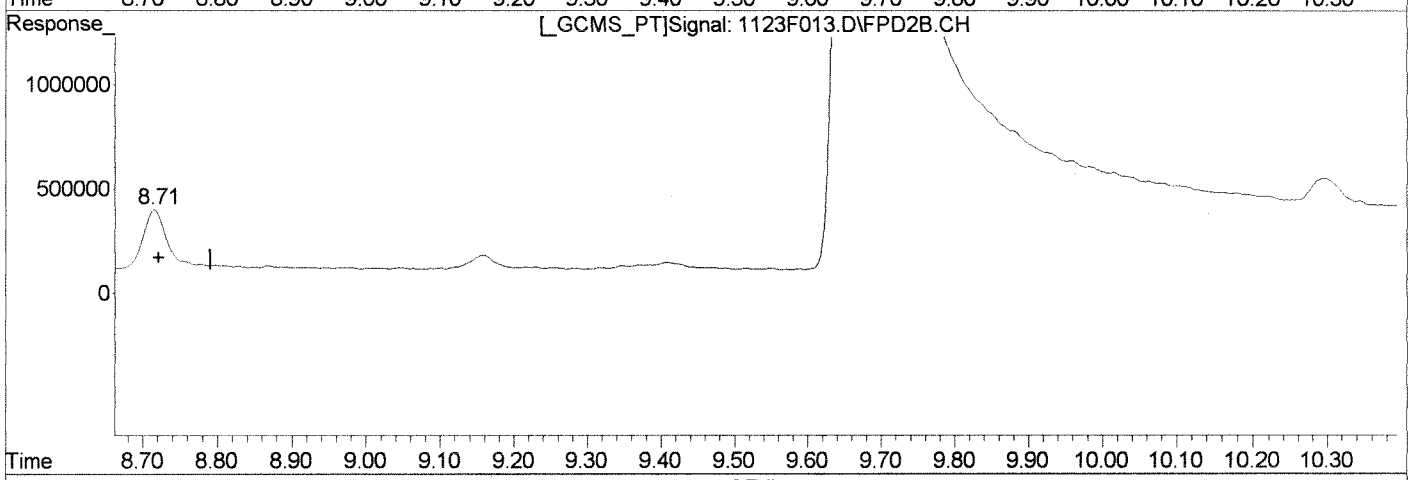


Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309B\1123F013.D\FPD1A.CH Vial: 15
Signal #2 : J:\GC26\DATA\112309B\1123F013.D\FPD2B.CH
Acq On : 24 Nov 2009 2:46 am Operator: CCotnam
Sample : K0911038-004 | LPRT01E Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(5) n-Butyltin

9.52min 23.556ng/mL

response 1375560

(5) n-Butyltin #2

8.71min 18.885ng/mL

response 701012

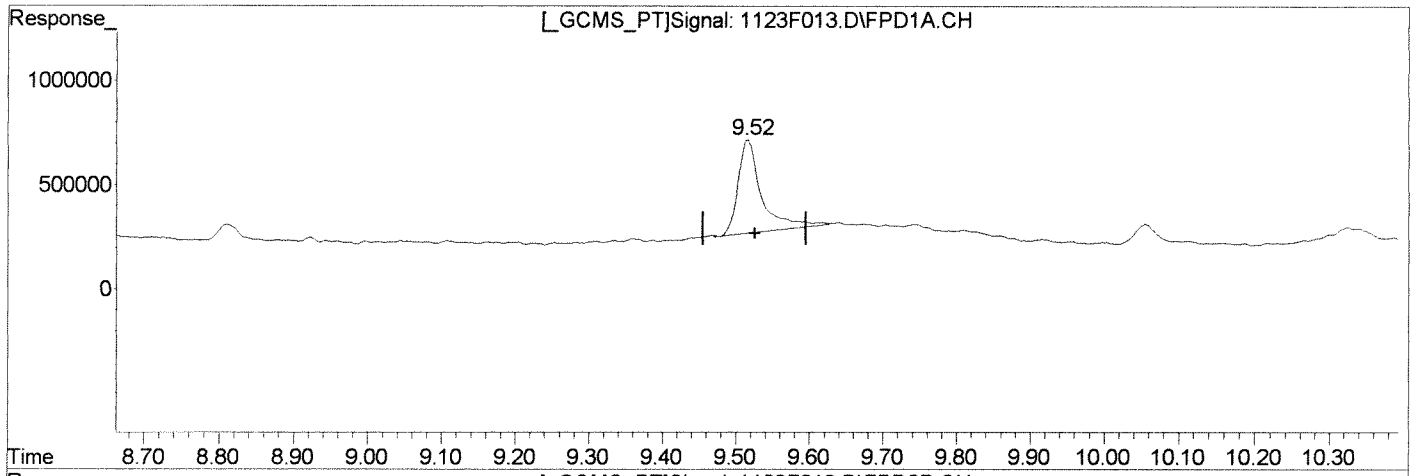
(+) = Expected Retention Time

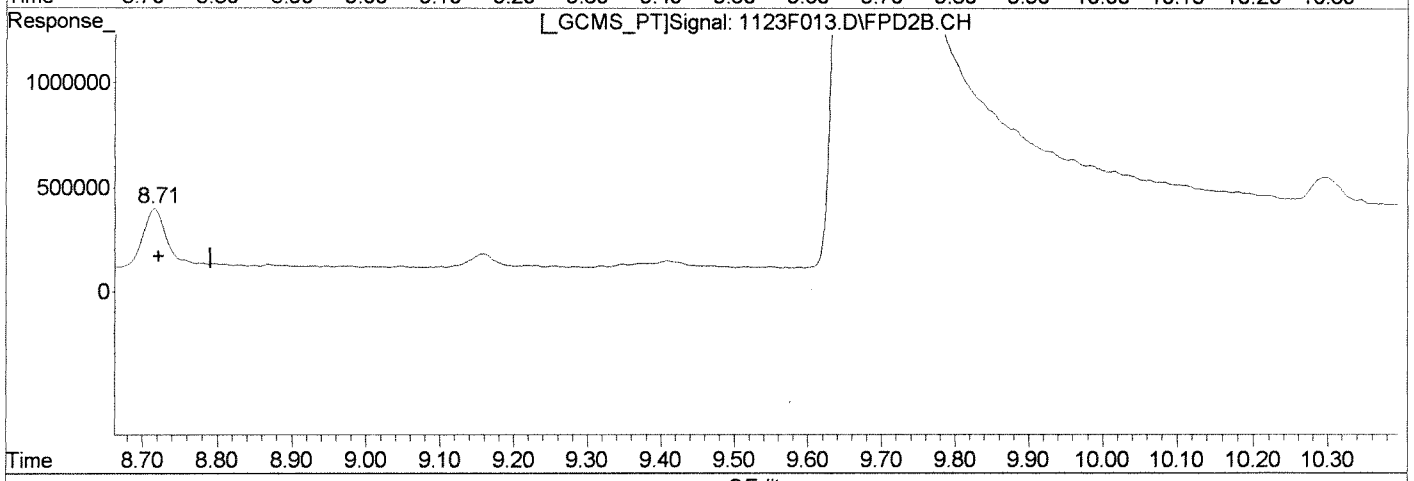
1123F013.D 112309-HTIN.M Tue Nov 24 08:59:42 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309B\1123F013.D\FPD1A.CH Vial: 15
Signal #2 : J:\GC26\DATA\112309B\1123F013.D\FPD2B.CH
Acq On : 24 Nov 2009 2:46 am Operator: CCotnam
Sample : K0911038-004 | LPRT01E Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(5) n-Butyltin

9.52min 17.057ng/mL m

response 996059

(5) n-Butyltin #2

8.71min 18.885ng/mL

response 701012

(+) = Expected Retention Time

1123F013.D 112309-HTIN.M Tue Nov 24 08:59:49 2009

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT06C	**Units:**	ug/Kg
Lab Code:	K0911038-005	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F033.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.12 g	**Column2:**	RTX-35
% Solids:	46.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.2	U	2.2	*
688-73-3	Tri-n-butyltin	**7.8**		2.2	
1002-53-5	Di-n-butyltin	**20**		2.2	
2406-65-7	n-Butyltin	**16**		2.2	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	28	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112409A\1124F033.D
Lab ID: K0911038-005
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 19:57
Date Quantitated: 11/25/2009 10:00
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-27.3	NA	25	RO

Primary Review: Williston

Secondary Review: 11/25/09

Exception Report

Data File: J:\GC26\DATA\112409A\1124F033.D\1124F033C.D
Lab ID: K0911038-005
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 19:57
Date Quantitated: 11/25/2009 10:00
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	JW

Primary Review: 11/25/09

Secondary Review: 11/25/09

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/09/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911153	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866947	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112409A\1124F033.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F033.D\1124F033c.d			**Vial:**	27
Acqu Date:	11/24/2009 19:57	**Quant Date:**	11/25/2009 10:00	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-005				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.25 +0.01	5.65	1154433	721921	35.49	35.43			28OK
				%Recovery =	28OK	28OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000CCV	0.0000	0.94U	0.94U	0.94U
Tri-n-butyltin	7.52 +0.01	6.81	697856	438795	18.49	18.32	7.8	7.8	7.8
Di-n-butyltin	8.53 +0.01	7.77	2354207	1472319m	46.09	45.33	20	19	20
n-Butyltin	9.52 +0.01	8.72 +0.01	2032951	1384909	34.81	37.31	15	16	16

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.12 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	46.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F033.D\FPD1A.CH Vial: 27
Signal #2 : J:\GC26\DATA\112409A\1124F033.D\FPD2B.CH
Acq On : 24 Nov 2009 7:57 pm Operator: CCotnam
Sample : K0911038-005 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:27:02 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.25	5.65	1154433	721921	35.485	35.431
		Target Compounds						
3)		Tri-n-butyltin	7.52	6.81	697856	438795	18.487	18.316
4)		Di-n-butyltin	8.53	7.77	2354207	1472319	46.087	45.325m
5)		n-Butyltin	9.52	8.72	2032951	1384909	34.814	37.309

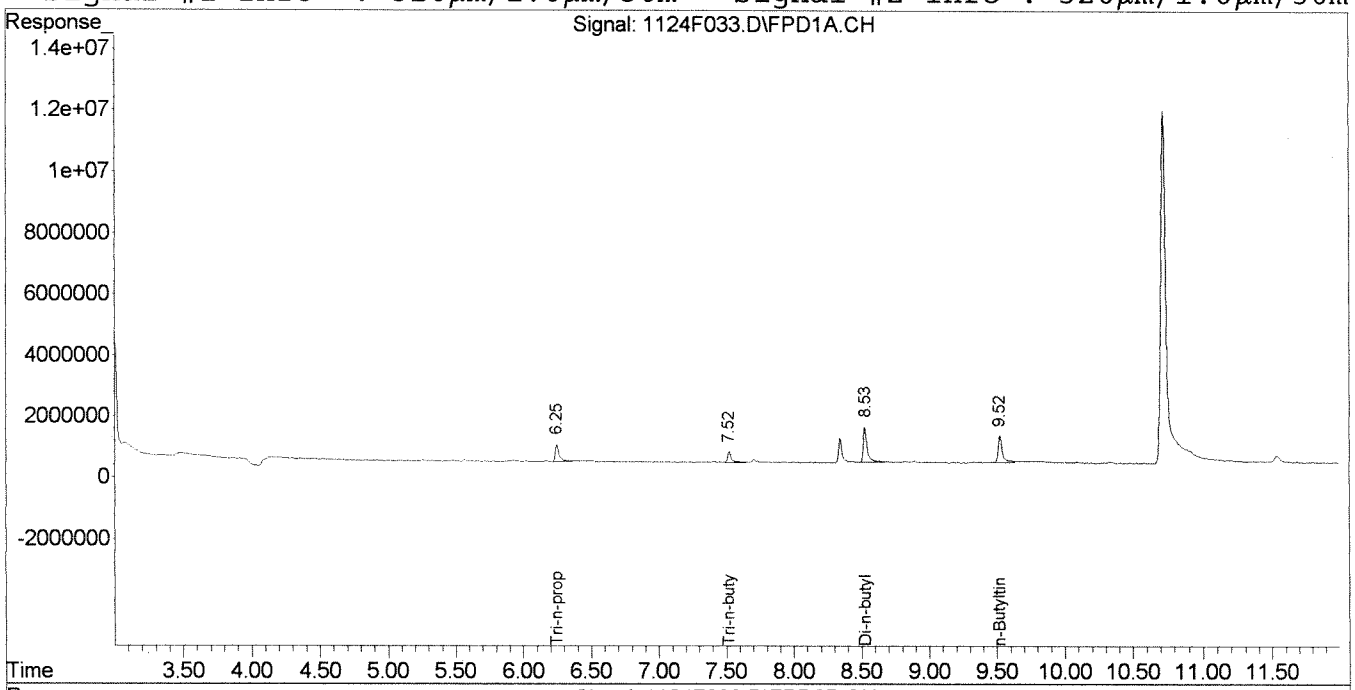
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

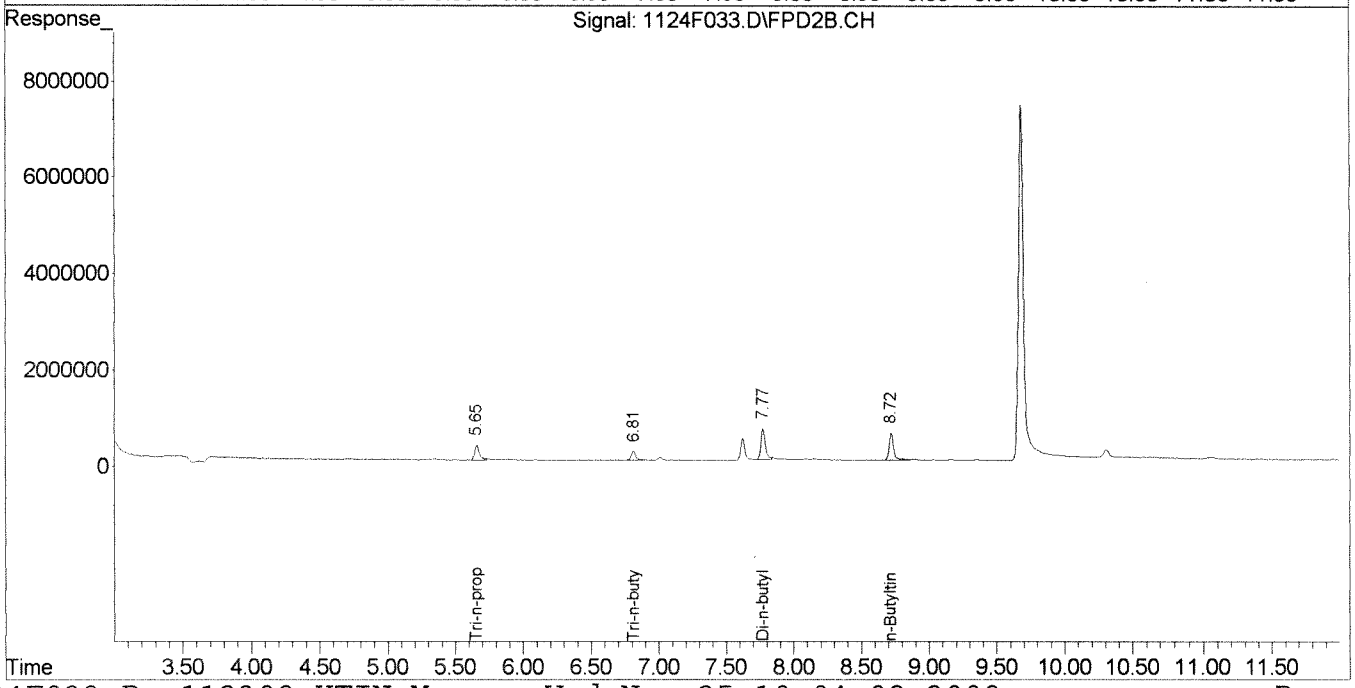
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F033.D\FPD1A.CH Vial: 27
Signal #2 : J:\GC26\DATA\112409A\1124F033.D\FPD2B.CH
Acq On : 24 Nov 2009 7:57 pm Operator: CCotnam
Sample : K0911038-005 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 10:00 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 μL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320μm/1.0μm/30m Signal #2 Info : 320μm/1.0μm/30m

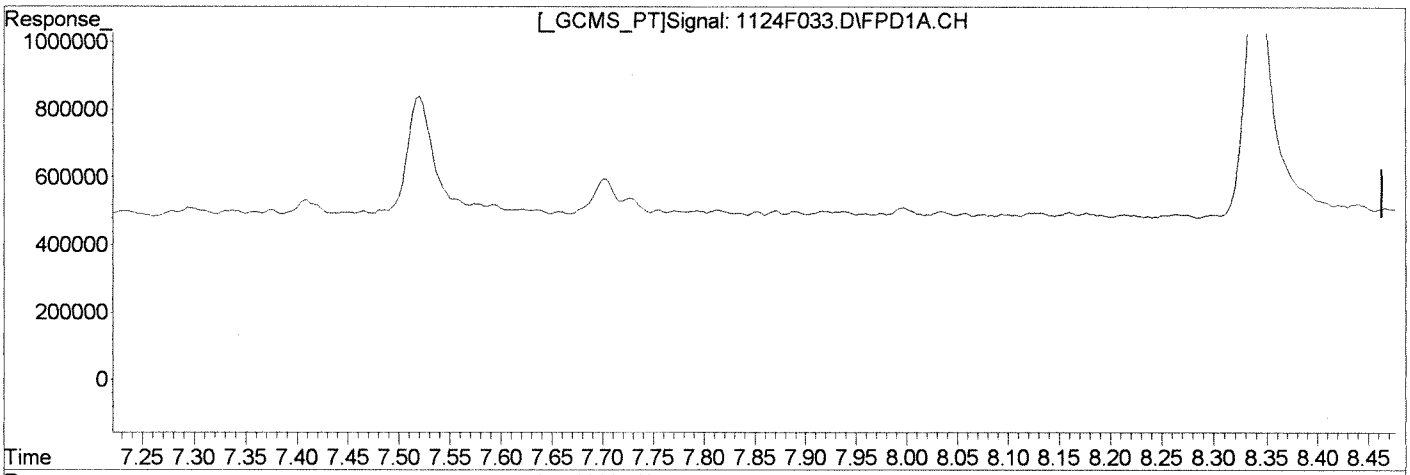


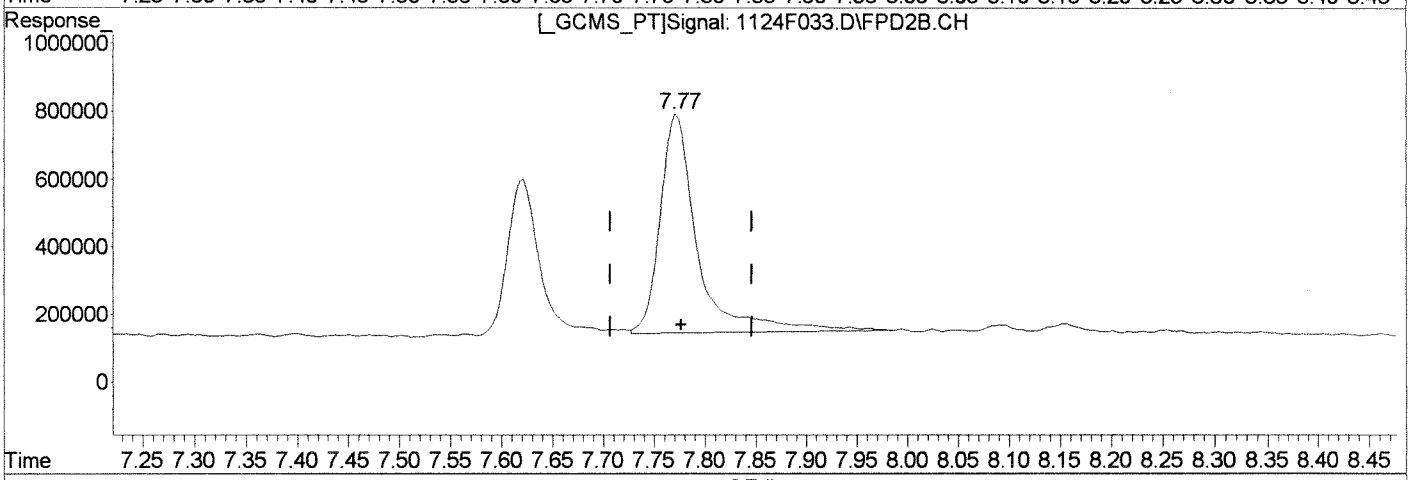


Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112409A\1124F033.D\FPD1A.CH Vial: 27
Signal #2 : J:\GC26\DATA\112409A\1124F033.D\FPD2B.CH
Acq On : 24 Nov 2009 7:57 pm Operator: CCotnam
Sample : K0911038-005 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.53min 46.087ng/mL

response 2354207

(4) Di-n-butyltin #2

7.77min 51.520ng/mL

response 1673551

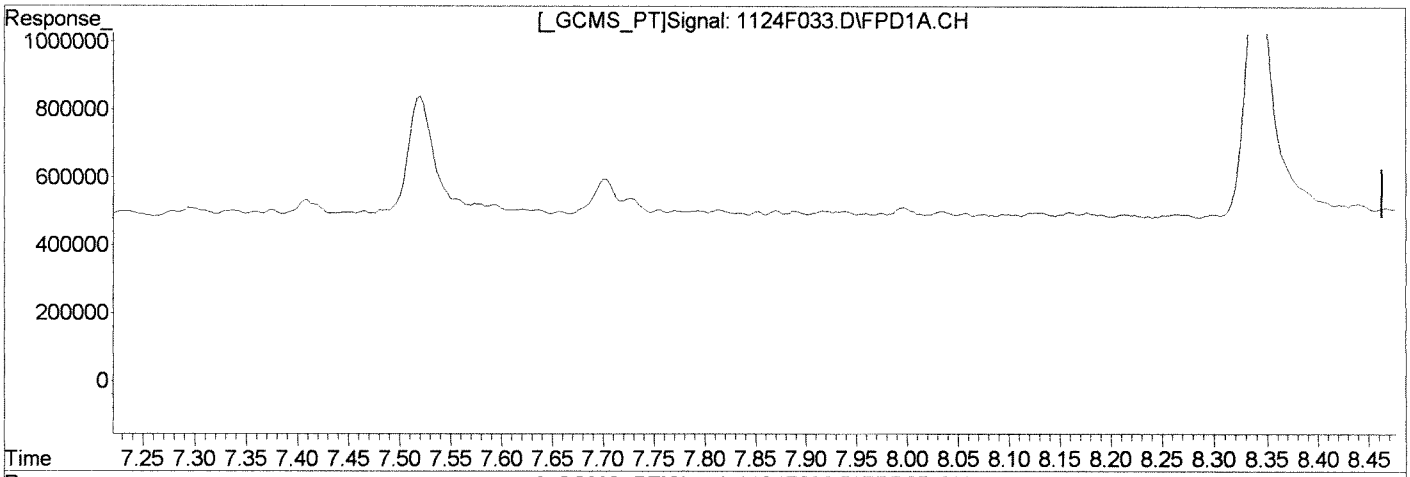
(+) = Expected Retention Time

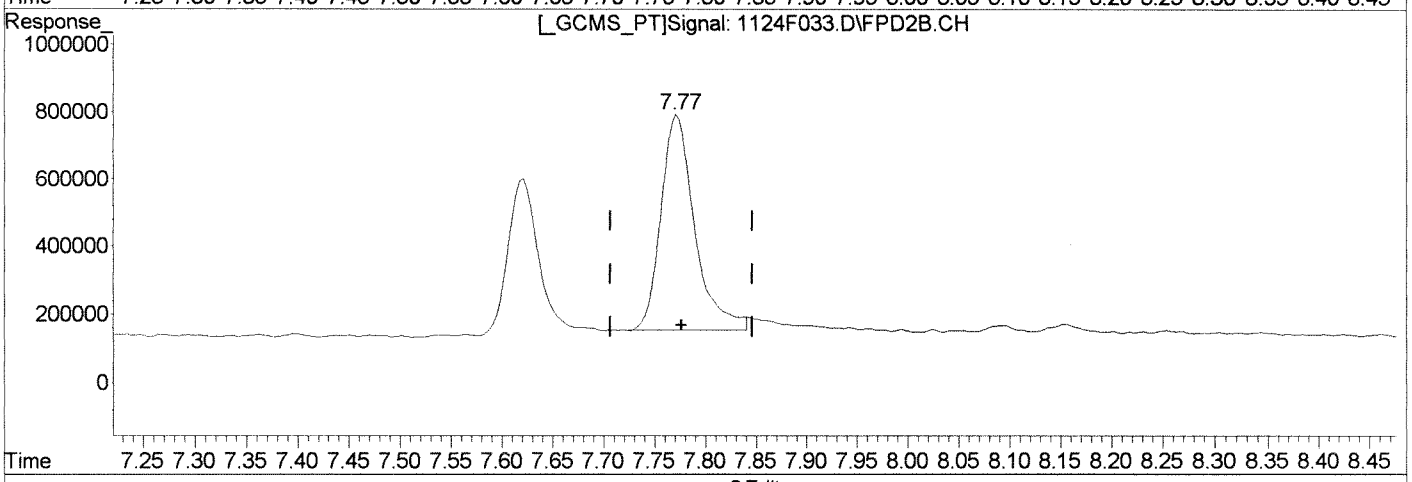
1124F033.D 112309-HTIN.M Wed Nov 25 10:00:37 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112409A\1124F033.D\FPD1A.CH Vial: 27
Signal #2 : J:\GC26\DATA\112409A\1124F033.D\FPD2B.CH
Acq On : 24 Nov 2009 7:57 pm Operator: CCotnam
Sample : K0911038-005 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.53min 46.087ng/mL

response 2354207

(4) Di-n-butyltin #2

7.77min 45.325ng/mL m

response 1472319

(+) = Expected Retention Time
1124F033.D 112309-HTIN.M Wed Nov 25 10:00:47 2009

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911038
Date Collected: 11/09/2009
Date Received: 11/12/2009
Date Extracted: 11/17/2009
Date Analyzed: 11/24/2009

Butyltins (as cation)

Sample Name: LPRT06C-FD
Lab Code: K0911038-006
File ID: J:\GC26\DATA\112309B\1123F019.D
Instrument ID: GC26

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Method: METHOD
Analysis Method: Krone

Extraction Lot: KWG0910708
Calibration ID: CAL9045

Column1: RTX-1
Column2: RTX-35

Sample Amount: 20.06 g
% Solids: 45.9
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.2	U	2.2	
688-73-3	Tri-n-butyltin	**13**		2.2	
1002-53-5	Di-n-butyltin	**38**		2.2	
2406-65-7	n-Butyltin	**13**		2.2	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	62	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F019.D
Lab ID: K0911038-006
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 04:56
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: 11/27/09

Secondary Review: 11/27/09

Exception Report

Data File: J:\GC26\DATA\112309B\1123F019.D\1123F019C.D
Lab ID: K0911038-006
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 04:56
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	NW
Continuing Calibration Recovery	Tetra-n-butyltin	-25.1	NA	25	NO

Primary Review: [illegible]

Secondary Review: [illegible] 12/24/09

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/09/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866948	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112309B\1123F019.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F019.D\1123F019c.d			**Vial:**	17
Acqu Date:	11/24/2009 04:56	**Quant Date:**	11/24/2009 08:18	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-006				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	+0.01	2263703	1573194	69.58	77.21			62OK
					%Recovery =	56OK	62OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin				0	0	0.0000	0.0000CCV	0.96U	0.96U	0.96U
Tri-n-butyltin	7.51	6.81	+0.01	1054381	732850	27.93	30.59	12	13	13
Di-n-butyltin	8.52	7.76		4447741	2665642	87.07	82.06	38	36	38
n-Butyltin	9.51	8.71		1780188	1129453	30.49	30.43	13	13	13

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.06 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	45.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F019.D\FPD1A.CH Vial: 17
Signal #2 : J:\GC26\DATA\112309B\1123F019.D\FPD2B.CH
Acq On : 24 Nov 2009 4:56 am Operator: CCotnam
Sample : K0911038-006 | LPRT06C-FD Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:04 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.24	5.65	2263703	1573194	69.583	77.211
		Target Compounds						
3)		Tri-n-butyltin	7.51	6.81	1054381	732850	27.932	30.590
4)		Di-n-butyltin	8.52	7.76	4447741	2665642	87.071	82.061
5)		n-Butyltin	9.51	8.71	1780188	1129453	30.485	30.427

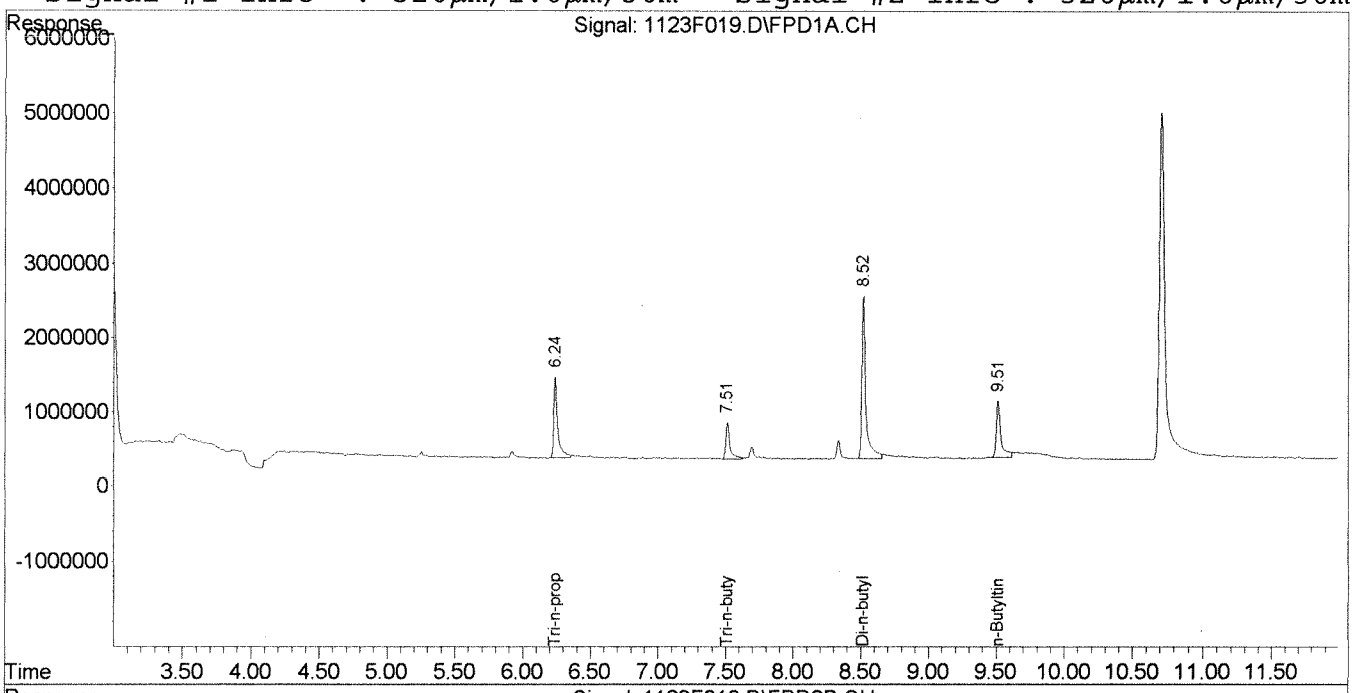
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

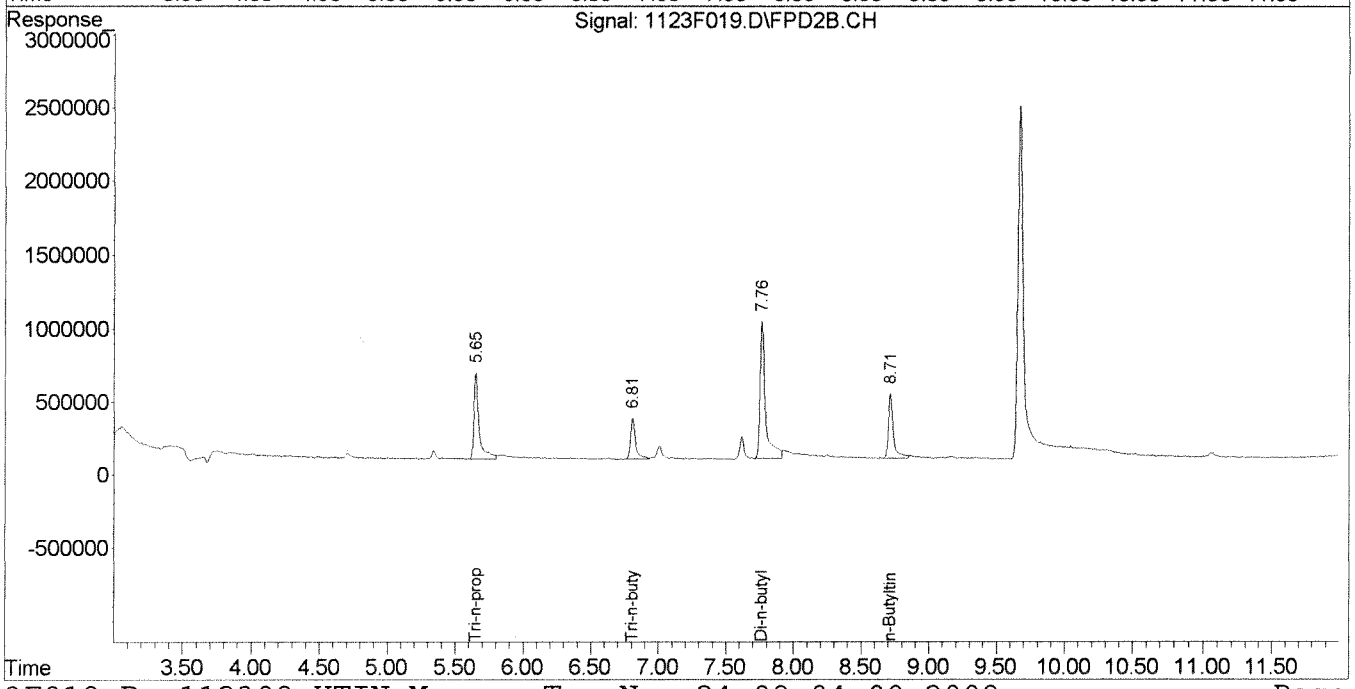
Quantitation Report (Not Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F019.D\FPD1A.CH Vial: 17
Signal #2 : J:\GC26\DATA\112309B\1123F019.D\FPD2B.CH
Acq On : 24 Nov 2009 4:56 am Operator: CCotnam
Sample : K0911038-006 | LPRT06C-FD Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT02D	**Units:**	ug/Kg
Lab Code:	K0911038-007	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F034.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.07 g	**Column2:**	RTX-35
% Solids:	31.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	3.2	U	3.2	*
688-73-3	Tri-n-butyltin	**8.2**		3.2	
1002-53-5	Di-n-butyltin	**18**		3.2	
2406-65-7	n-Butyltin	**7.3**		3.2	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	29	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112409A\1124F034.D
Lab ID: K0911038-007
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 20:15
Date Quantitated: 11/25/2009 08:27
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-27.3	NA	25	No

Primary Review: [illegible]

Secondary Review: [illegible]

Exception Report

Data File: J:\GC26\DATA\112409A\1124F034.D\1124F034C.D
Lab ID: K0911038-007
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 20:15
Date Quantitated: 11/25/2009 08:27
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/10/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911153	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866949	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112409A\1124F034.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F034.D\1124F034c.d			**Vial:**	28
Acqu Date:	11/24/2009 20:15	**Quant Date:**	11/25/2009 08:27	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-007				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.66 +0.01	1123253	731562	34.53	35.90			29OK
				%Recovery =	28OK	29OK	**Limits =**	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000CCV	0.0000	1.4U	1.4U	1.4U
Tri-n-butyltin	7.52 +0.01	6.83 +0.02	394091	314937	10.44	13.15	6.5	8.2	**8.2**
Di-n-butyltin	8.52	7.77	1198175	914815	23.46	28.16	15	18	**18**
n-Butyltin	9.52 +0.01	8.72 +0.01	606485	436361	10.39	11.76	6.5	7.3	**7.3**

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.07 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	31.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F034.D\FPD1A.CH Vial: 28
Signal #2 : J:\GC26\DATA\112409A\1124F034.D\FPD2B.CH
Acq On : 24 Nov 2009 8:15 pm Operator: CCotnam
Sample : K0911038-007 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:27:02 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.24	5.66	1123253	731562	34.527	35.904
		Target Compounds						
3)		Tri-n-butyltin	7.52	6.83	394091	314937	10.440	13.146 #
4)		Di-n-butyltin	8.52	7.77	1198175	914815	23.456	28.162
5)		n-Butyltin	9.52	8.72	606485	436361	10.386	11.755

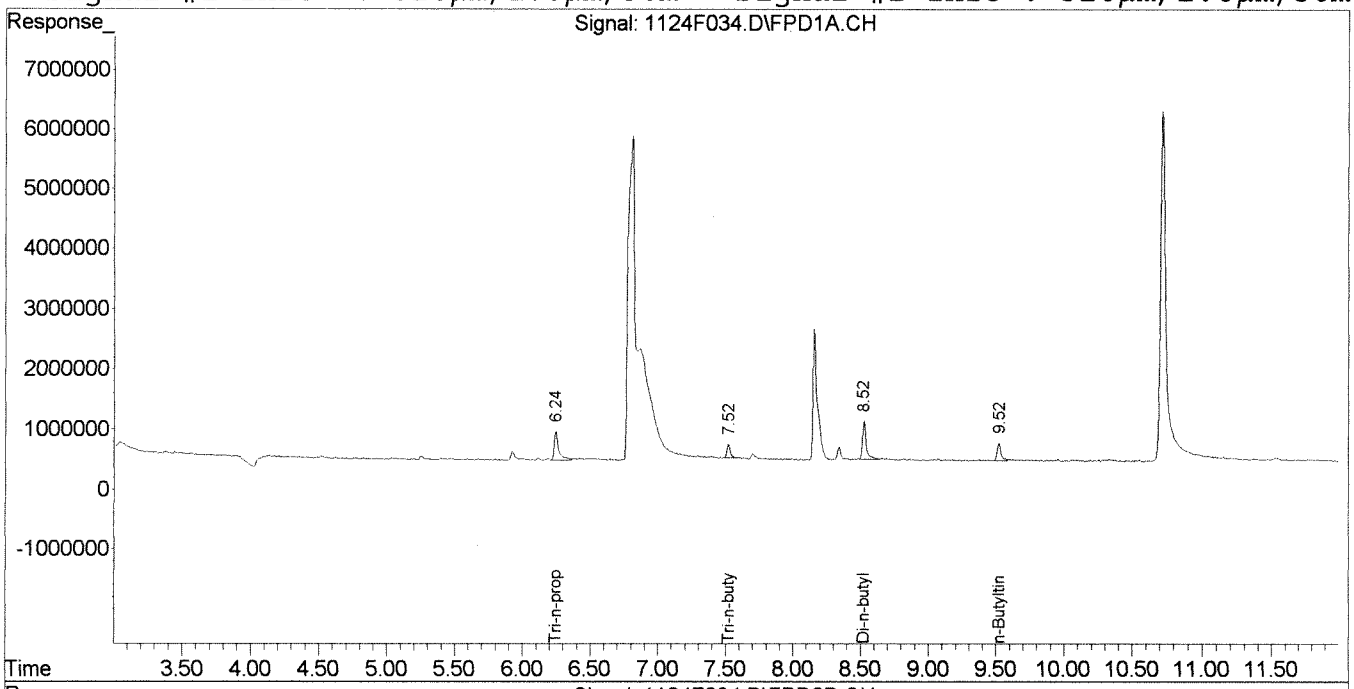
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

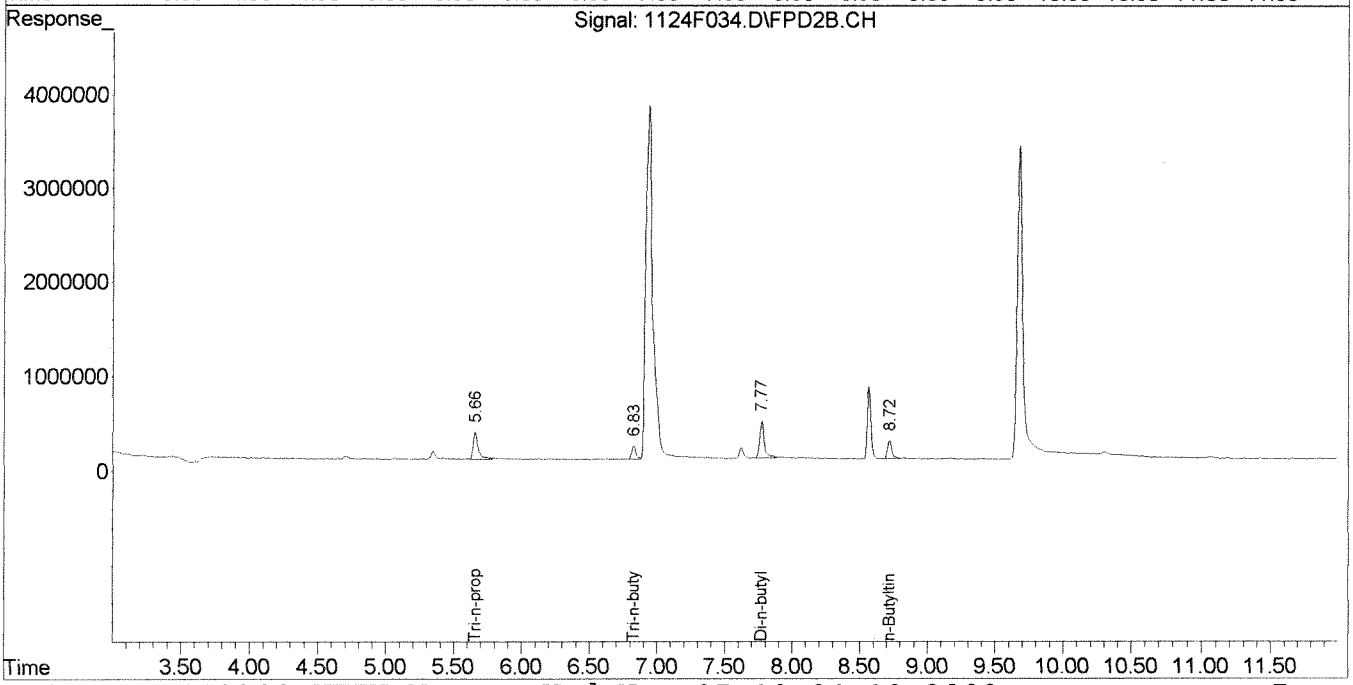
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F034.D\FPD1A.CH Vial: 28
Signal #2 : J:\GC26\DATA\112409A\1124F034.D\FPD2B.CH
Acq On : 24 Nov 2009 8:15 pm Operator: CCotnam
Sample : K0911038-007 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT03C	**Units:**	ug/Kg
Lab Code:	K0911038-008	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F021.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.08 g	**Column2:**	RTX-35
% Solids:	35.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	2.8	U	2.8	
688-73-3	Tri-n-butyltin	**13**		2.8	
1002-53-5	Di-n-butyltin	**29**		2.8	
2406-65-7	n-Butyltin	**21**		2.8	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	57	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F021.D
Lab ID: K0911038-008
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 05:28
Date Quantitated: 11/24/2009 09:00
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: [illegible]
Secondary Review: [illegible]

Exception Report

Data File: J:\GC26\DATA\112309B\1123F021.D\1123F021C.D
Lab ID: K0911038-008
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 05:28
Date Quantitated: 11/24/2009 09:00
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	
Continuing Calibration Recovery	Tetra-n-butyltin	-25.1	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/10/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866950	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112309B\1123F021.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F021.D\1123F021c.d			**Vial:**	19
Acqu Date:	11/24/2009 05:28	**Quant Date:**	11/24/2009 09:00	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-008				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65 +0.01	2024489	1439208	62.23	70.64			57OK
			%Recovery =		50OK	57OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000CCV	1.3U	1.3U	1.3U
Tri-n-butyltin	7.52 +0.01	6.81 +0.01	764631	565951	20.26	23.62	11	13	13
Di-n-butyltin	8.52	7.77 +0.01	2577580	1689916m	50.46	52.02	28	29	29
n-Butyltin	9.52 +0.01	8.72 +0.01	1945687	1400951	33.32	37.74	18	21	21

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.08 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	35.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F021.D\FPD1A.CH Vial: 19
Signal #2 : J:\GC26\DATA\112309B\1123F021.D\FPD2B.CH
Acq On : 24 Nov 2009 5:28 am Operator: CCotnam
Sample : K0911038-008 | LPRT03C Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:06 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.24	5.65	2024489	1439208	62.230	70.635
		Target Compounds						
3)		Tri-n-butyltin	7.52	6.81	764631	565951	20.256	23.624
4)		Di-n-butyltin	8.52	7.77	2577580	1689916	50.460	52.024m
5)		n-Butyltin	9.52	8.72	1945687	1400951	33.319	37.741

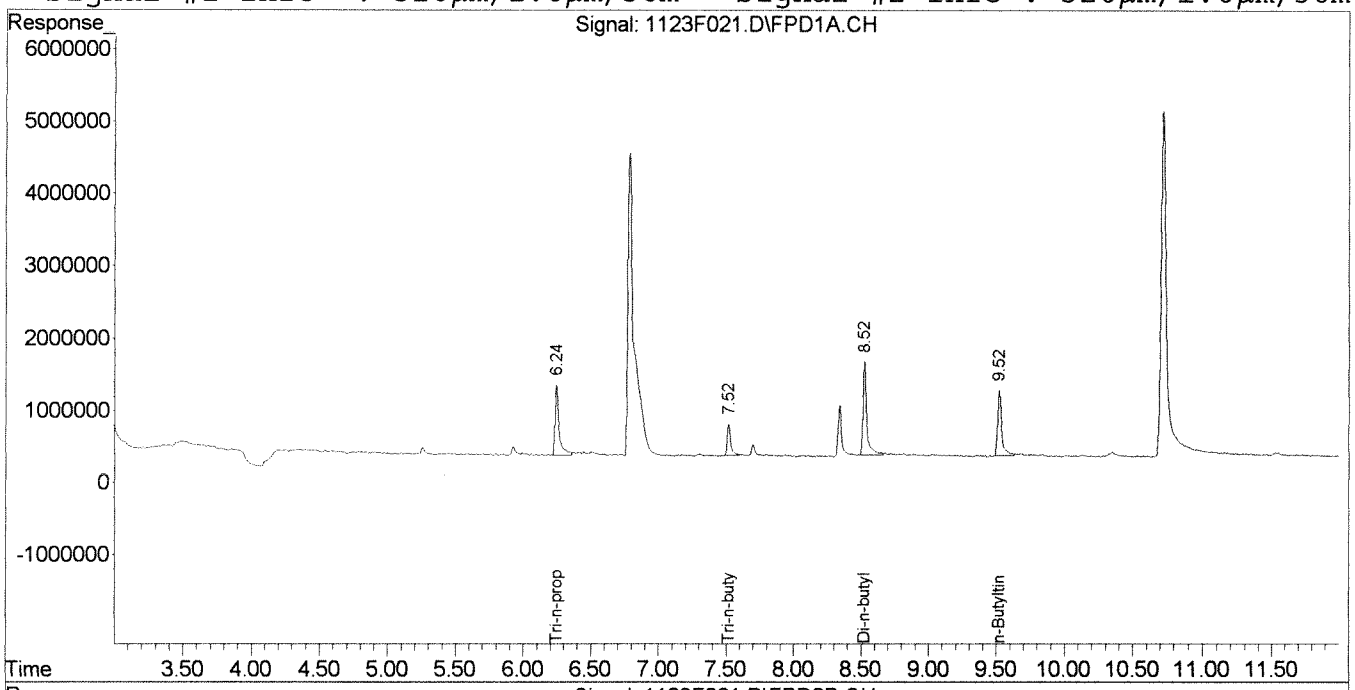
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

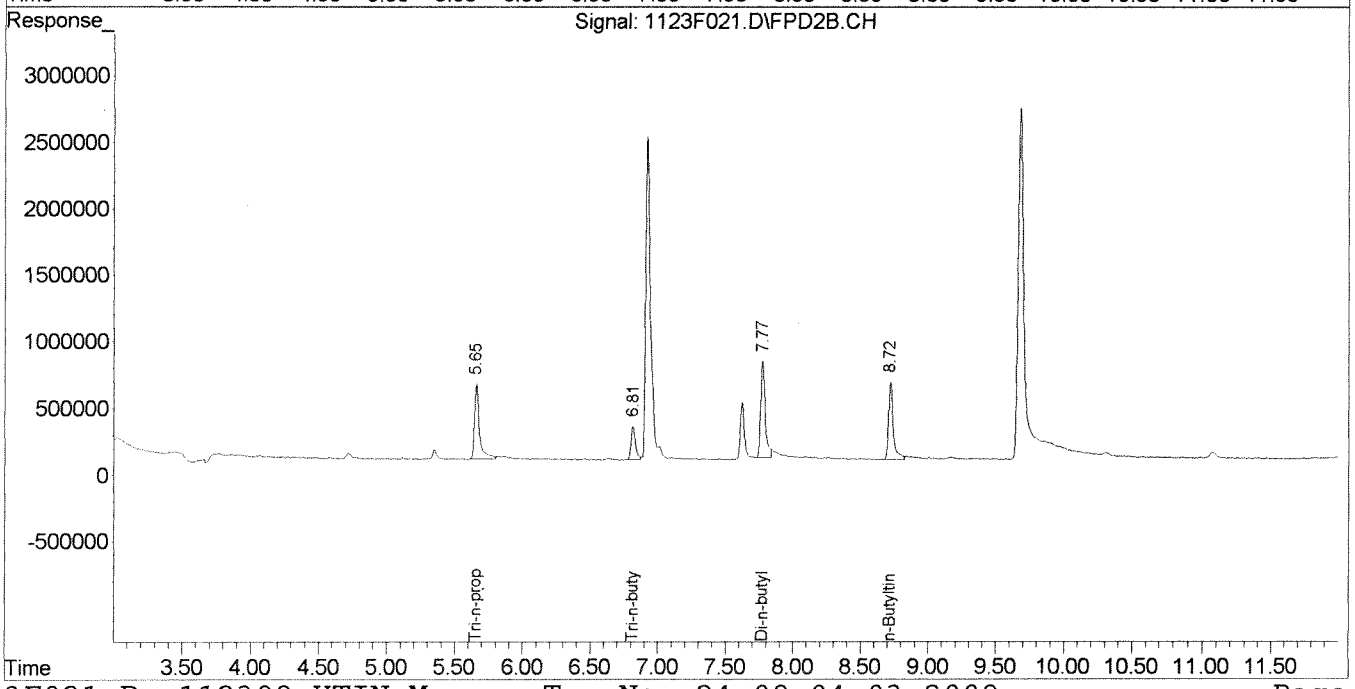
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F021.D\FPD1A.CH Vial: 19
Signal #2 : J:\GC26\DATA\112309B\1123F021.D\FPD2B.CH
Acq On : 24 Nov 2009 5:28 am Operator: CCotnam
Sample : K0911038-008 | LPRT03C Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 9:00 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

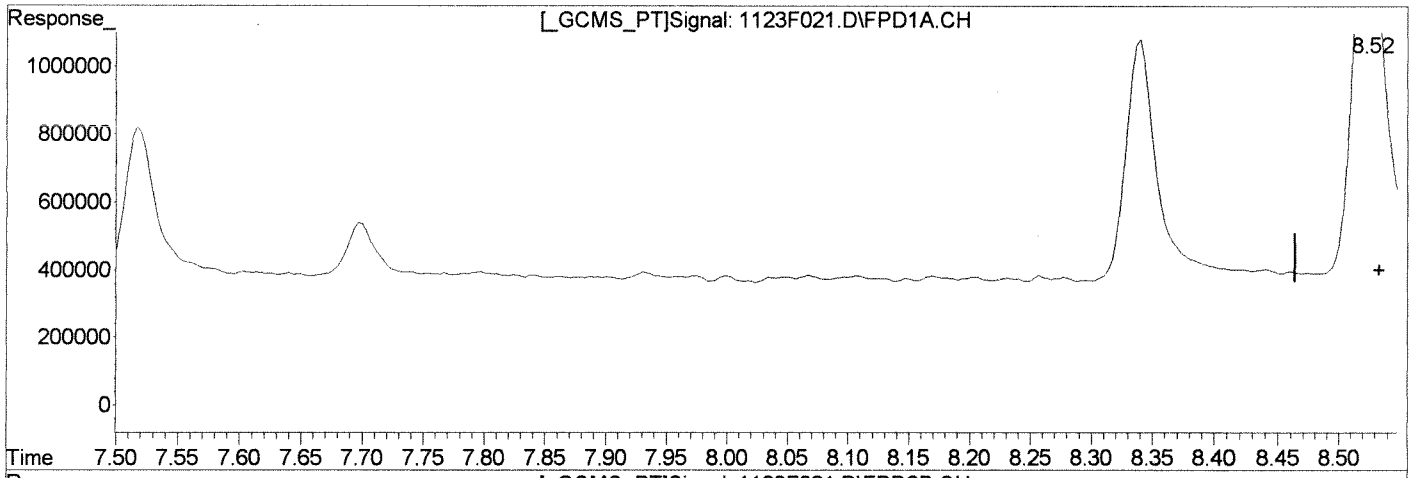


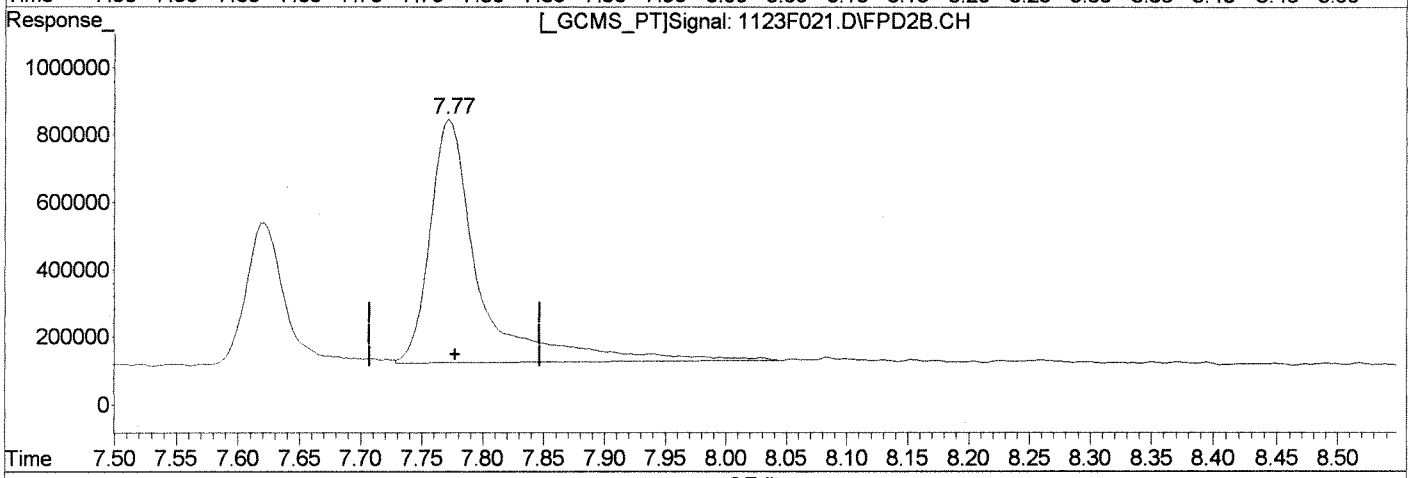


Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309B\1123F021.D\FPD1A.CH Vial: 19
Signal #2 : J:\GC26\DATA\112309B\1123F021.D\FPD2B.CH
Acq On : 24 Nov 2009 5:28 am Operator: CCotnam
Sample : K0911038-008 | LPRT03C Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.52min 50.460ng/mL

response 2577580

(4) Di-n-butyltin #2

7.77min 62.644ng/mL

response 2034911

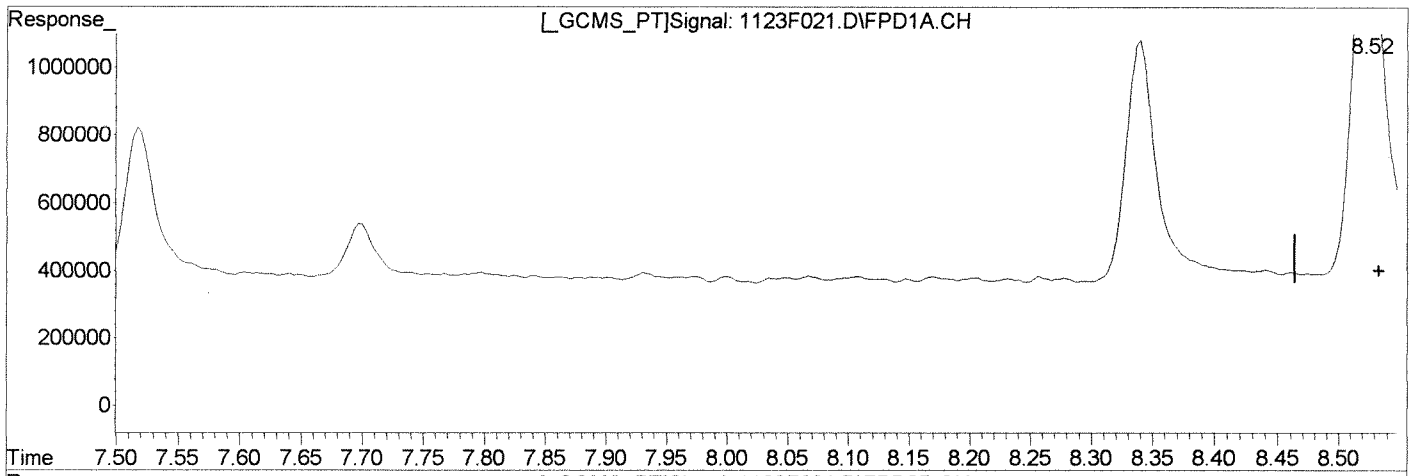
(+) = Expected Retention Time

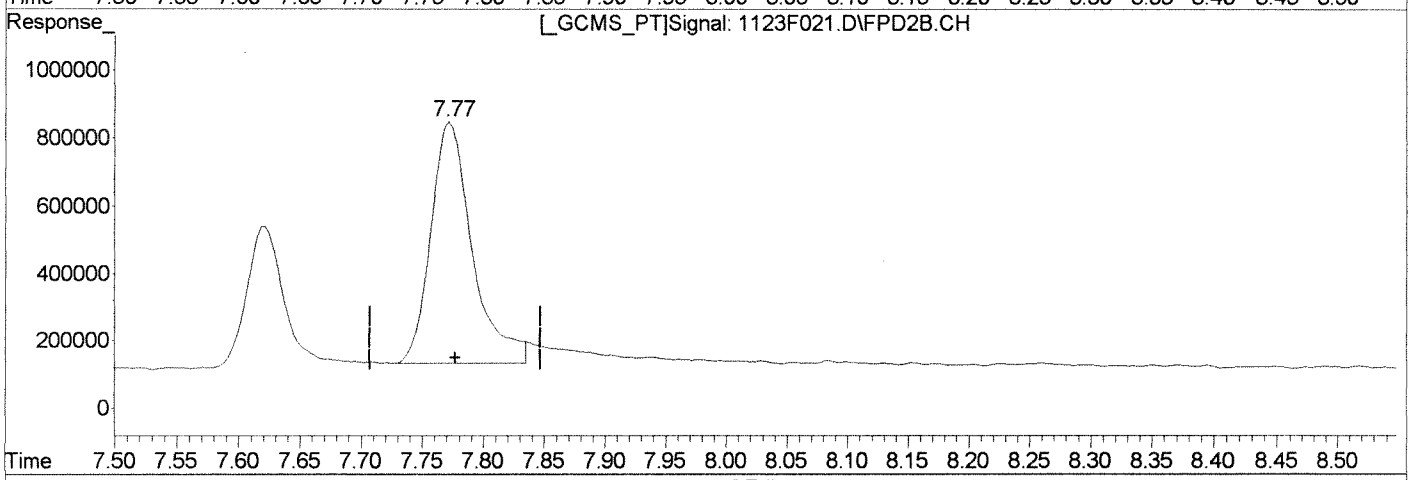
1123F021.D 112309-HTIN.M Tue Nov 24 09:00:46 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309B\1123F021.D\FPD1A.CH Vial: 19
Signal #2 : J:\GC26\DATA\112309B\1123F021.D\FPD2B.CH
Acq On : 24 Nov 2009 5:28 am Operator: CCotnam
Sample : K0911038-008 | LPRT03C Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.52min 50.460ng/mL

response 2577580

(4) Di-n-butyltin #2

7.77min 52.024ng/mL m

response 1689916

(+) = Expected Retention Time

1123F021.D 112309-HTIN.M Tue Nov 24 09:00:53 2009

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT09A	**Units:**	ug/Kg
Lab Code:	K0911038-009	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F035.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.39 g	**Column2:**	RTX-35
% Solids:	67.5		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.5	U	1.5	*
688-73-3	Tri-n-butyltin	**5.5**		1.5	
1002-53-5	Di-n-butyltin	**6.7**		1.5	
2406-65-7	n-Butyltin	1.5	U	1.5	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	32	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112409A\1124F035.D
Lab ID: K0911038-009
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 20:32
Date Quantitated: 11/25/2009 08:27
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-27.3	NA	25	ND

Primary Review: [illegible]

Secondary Review: [illegible]

Exception Report

Data File: J:\GC26\DATA\112409A\1124F035.D\1124F035C.D
Lab ID: K0911038-009
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 20:32
Date Quantitated: 11/25/2009 08:27
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/10/2009	**Receive Date:**	11/12/2009

Analysis Lot:	KWG0911153	**Prep Lot:**	KWG0910708	**Report Group:**	K0911038
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866951	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112409A\1124F035.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F035.D\1124F035c.d			**Vial:**	29
Acqu Date:	11/24/2009 20:32	**Quant Date:**	11/25/2009 08:27	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911038-009				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.25 +0.01	5.65	1199850	808455	36.88	39.68			32OK
				%Recovery =	30OK	32OK	**Limits =**	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000CCV	0.0000	0.64U	0.64U	0.64U
Tri-n-butyltin	7.52 +0.01	6.81	718863	456265	19.04	19.05	5.5	5.5	5.5
Di-n-butyltin	8.53 +0.01	7.77	1018572	744741	19.94	22.93	5.8	6.7	6.7
n-Butyltin	9.52 +0.01	8.72 +0.01	192115	146195	3.29	3.94	0.96J	1.1J	1.1J

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.39 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	67.5 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F035.D\FPD1A.CH Vial: 29
Signal #2 : J:\GC26\DATA\112409A\1124F035.D\FPD2B.CH
Acq On : 24 Nov 2009 8:32 pm Operator: CCotnam
Sample : K0911038-009 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:27:03 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.25	5.65	1199850	808455	36.881	39.678
		Target Compounds						
3)		Tri-n-butyltin	7.52	6.81	718863	456265	19.044	19.045
4)		Di-n-butyltin	8.53	7.77	1018572	744741	19.940	22.927
5)		n-Butyltin	9.52	8.72	192115	146195	3.290	3.938

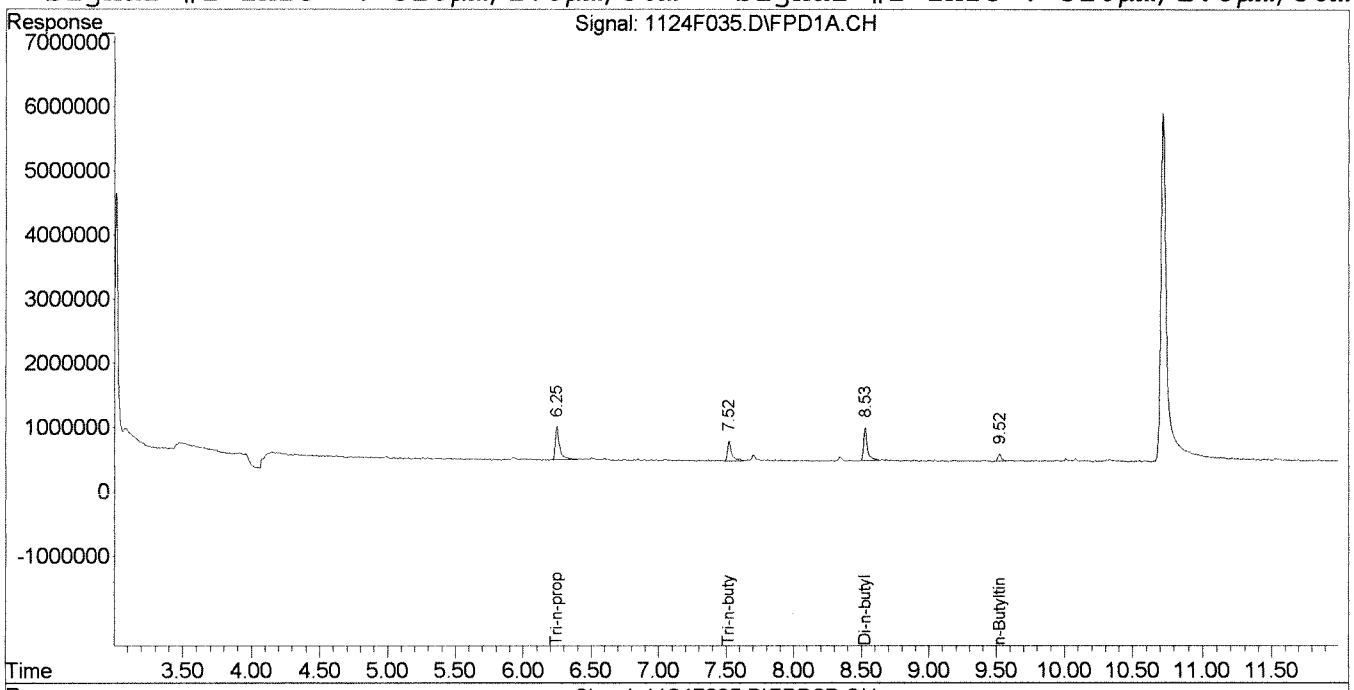
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

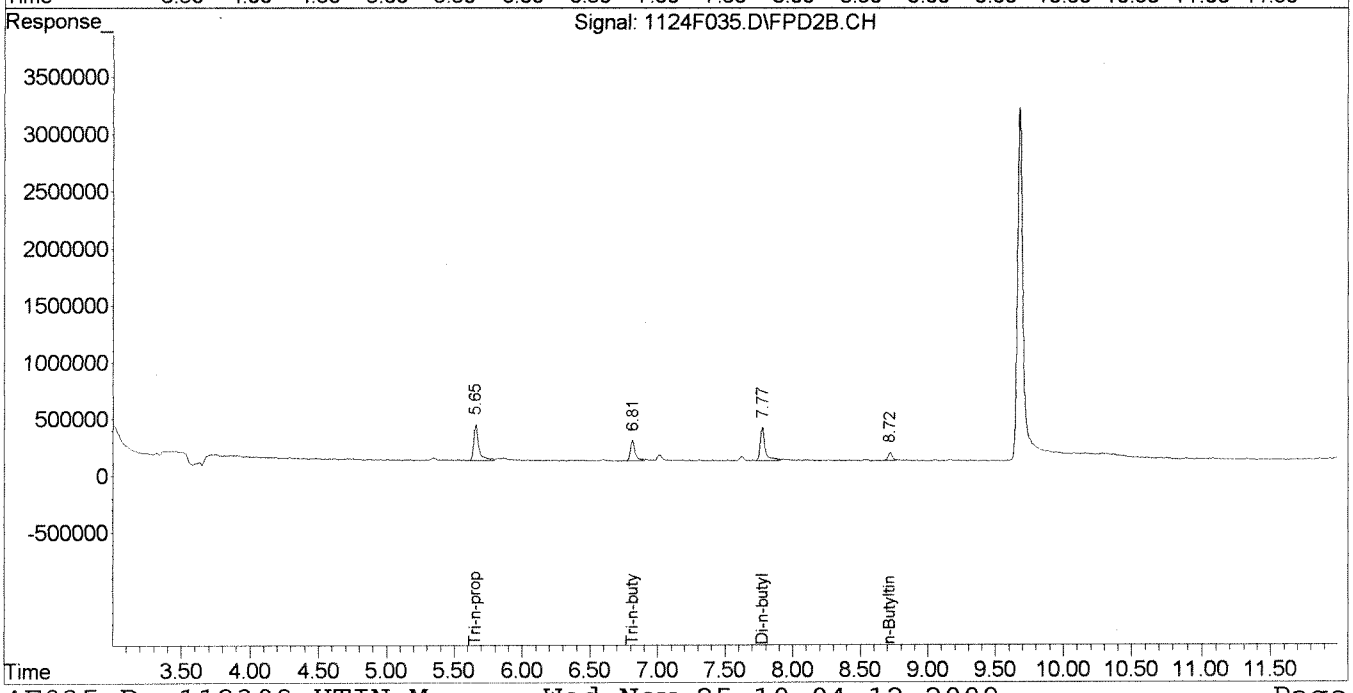
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F035.D\FPD1A.CH Vial: 29
Signal #2 : J:\GC26\DATA\112409A\1124F035.D\FPD2B.CH
Acq On : 24 Nov 2009 8:32 pm Operator: CCotnam
Sample : K0911038-009 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\111 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG0910708-4	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F007.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.39 g	**Column2:**	RTX-35
% Solids:	NA		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	0.99	U	0.99	
688-73-3	Tri-n-butyltin	0.99	U	0.99	
1002-53-5	Di-n-butyltin	0.99	U	0.99	
2406-65-7	n-Butyltin	0.99	U	0.99	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	61	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F007.D
Lab ID: KWG0910708-4
RunType: MB
Matrix: SEDIMENT

Date Acquired: 11/24/2009 01:09
Date Quantitated: 11/24/2009 08:58
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:21:10
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	J:\GC26\DATA\112309B\1123F007.D\1123F007C.D	**Date Acquired:**	11/24/2009 01:09
Lab ID:	KWG0910708-4	**Date Quantitated:**	11/24/2009 08:58
RunType:	MB	**Batch ID:**	KWG0911115
Matrix:	SEDIMENT	**Analysis Method:**	Krone
		MethodJoinID:	MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	NR
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-25.1	NA	25	RO

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/18/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866957	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F007.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F007.D\1123F007c.d			**Vial:**	9
Acqu Date:	11/24/2009 01:09	**Quant Date:**	11/24/2009 08:58	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0910708-4				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24 +0.01	5.64	2473097	1490846	76.02	73.17			61OK
				%Recovery =	61OK	59OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000ccv	0.44U	0.44U	0.44U
Tri-n-butyltin			0d	0	0.0000	0.0000	0.43U	0.43U	0.43U
Di-n-butyltin			0d	0	0.0000	0.0000	0.19U	0.19U	0.19U
n-Butyltin			0d	0	0.0000	0.0000	0.26U	0.26U	0.26U

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.39 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F007.D\FPD1A.CH Vial: 9
Signal #2 : J:\GC26\DATA\112309B\1123F007.D\FPD2B.CH
Acq On : 24 Nov 2009 1:09 am Operator: CCotnam
Sample : KWG0910708-4 | MB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0910708\4-MB.H | F=4 D=1 A=2 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:54 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

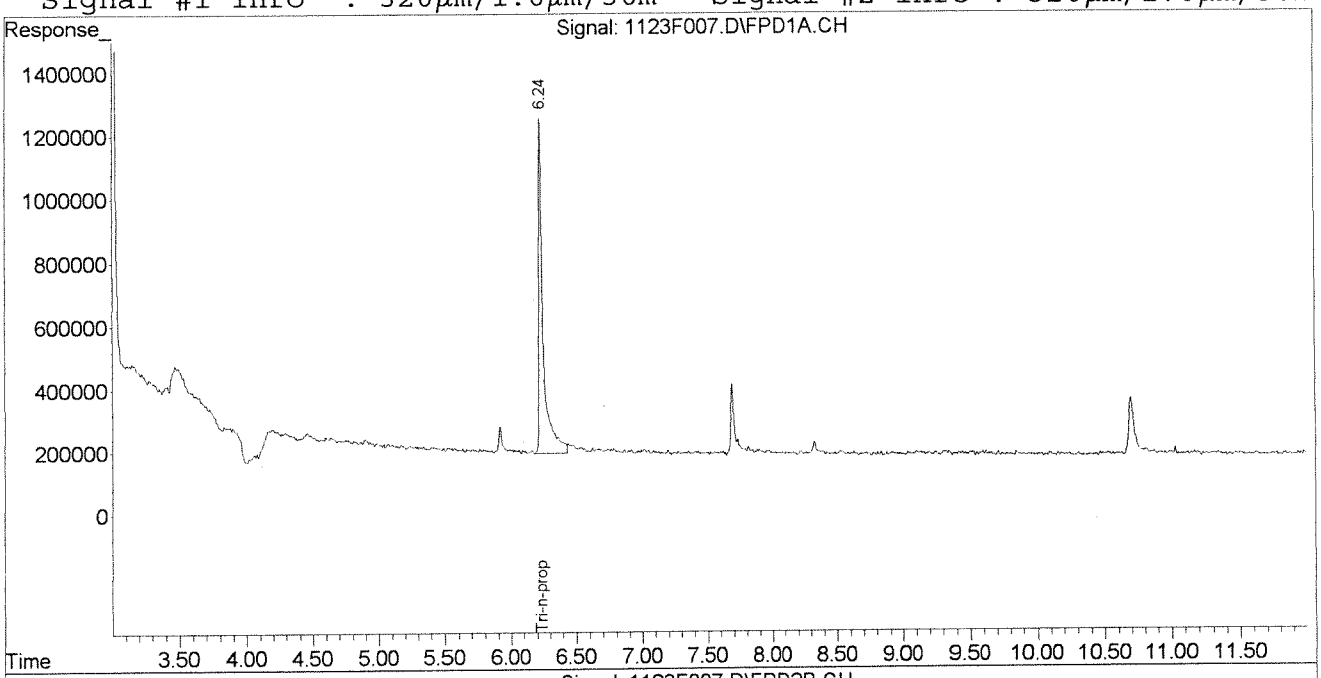
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.24	5.64f	2473097	1490846	76.019	73.169
	Target Compounds						

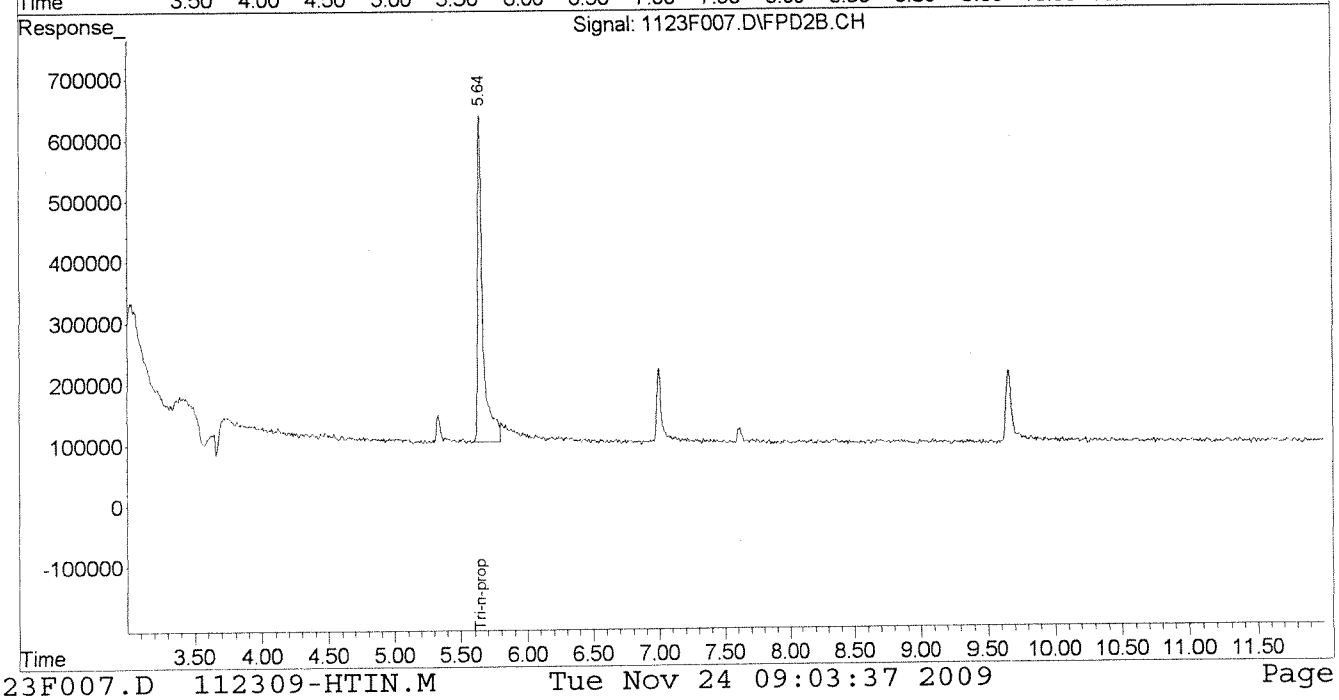
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F007.D\FPD1A.CH Vial: 9
Signal #2 : J:\GC26\DATA\112309B\1123F007.D\FPD2B.CH
Acq On : 24 Nov 2009 1:09 am Operator: CCotnam
Sample : KWG0910708-4 | MB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0910708\4-MB.H | F=4 D=1 A=2 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:58 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K0911048-002	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F024.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.02 g	**Column2:**	RTX-35
% Solids:	80.0		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	1.3	U	1.3	
688-73-3	Tri-n-butyltin	1.3	U	1.3	
1002-53-5	Di-n-butyltin	1.3	U	1.3	
2406-65-7	n-Butyltin	1.3	U	1.3	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	64	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F024.D
Lab ID: K0911048-002
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 06:17
Date Quantitated: 11/24/2009 09:01
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Printed: 11/24/2009 09:22:22
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123F024.D\1123F024C.D
Lab ID: K0911048-002
RunType: SMPL
Matrix: SEDIMENT

Date Acquired: 11/24/2009 06:17
Date Quantitated: 11/24/2009 09:01
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	
Continuing Calibration Recovery	Tetra-n-butyltin	-25.1	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:22:25
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Quantitation Report

Bottle ID:		**Tier:**	V	**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**	11/12/2009	**Receive Date:**	11/13/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	K0911048
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866953	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:	Butyltins (as cation)	**Report List ID:**	LJ4743
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Report List	

Data File #1:	J:\GC26\DATA\112309B\1123F024.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F024.D\1123F024c.d			**Vial:**	22
Acqu Date:	11/24/2009 06:17	**Quant Date:**	11/24/2009 09:01	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K0911048-002				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65 +0.01	2382241	1621080	73.23	79.56			64OK
			%Recovery =		59OK	64OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000CCV	0.55U	0.55U	0.55U
Tri-n-butyltin			0	0d	0.0000	0.0000	0.54U	0.54U	0.54U
Di-n-butyltin			0	0	0.0000	0.0000	0.24U	0.24U	0.24U
n-Butyltin			0	0	0.0000	0.0000	0.33U	0.33U	0.33U

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.02 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	80.0 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F024.D\FPD1A.CH Vial: 22
Signal #2 : J:\GC26\DATA\112309B\1123F024.D\FPD2B.CH
Acq On : 24 Nov 2009 6:17 am Operator: CCotnam
Sample : K0911048-002 | SR-01-01-121109 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:07 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

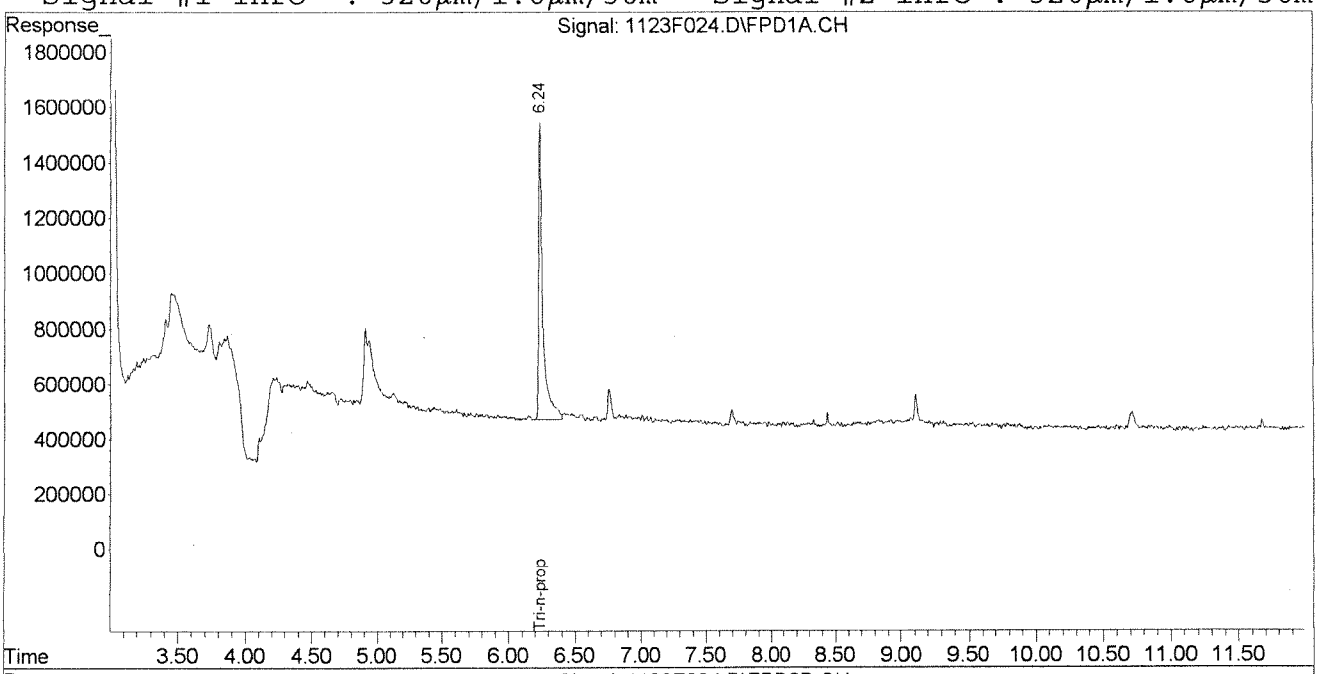
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.24	5.65	2382241	1621080	73.226	79.561
	Target Compounds						

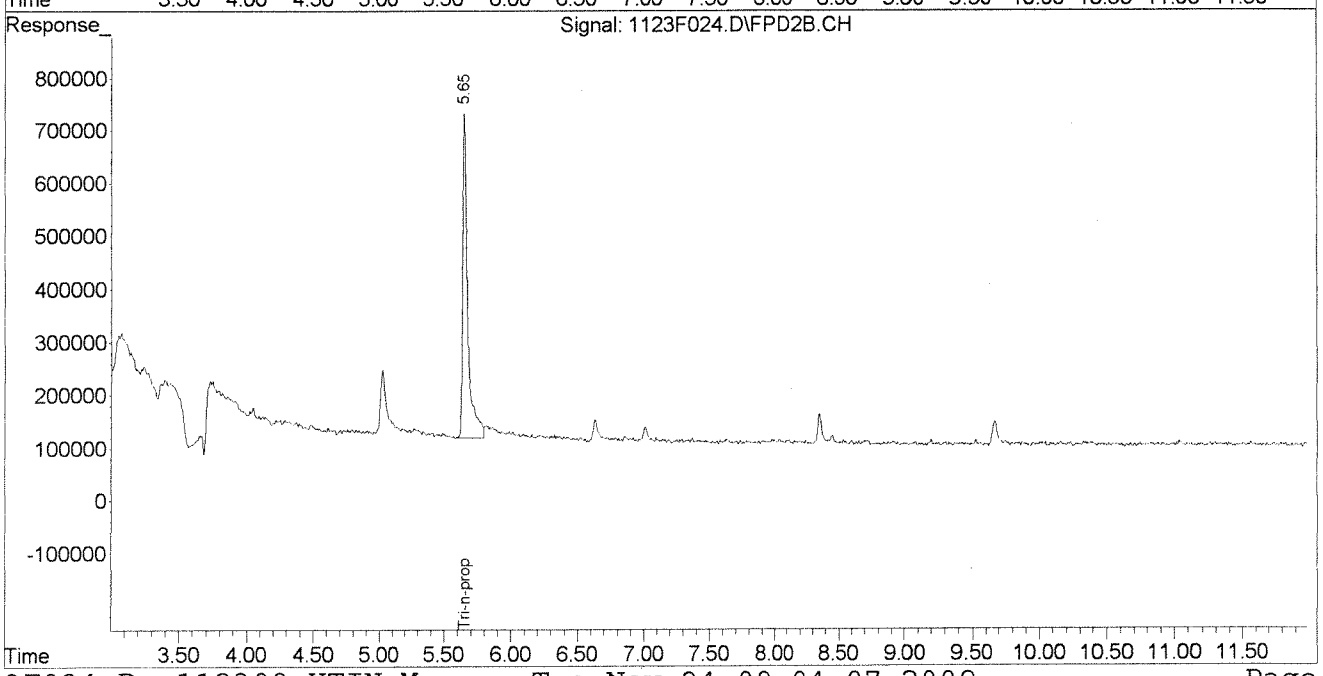
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F024.D\FPD1A.CH Vial: 22
Signal #2 : J:\GC26\DATA\112309B\1123F024.D\FPD2B.CH
Acq On : 24 Nov 2009 6:17 am Operator: CCotnam
Sample : K0911048-002 | SR-01-01-121109 Inst : GC26
Misc : KELSO\SEMIVOA GC\BUTYLTINS-BUTYLTINS\110 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 9:01 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Batch QCMS	**Units:**	ug/Kg
Lab Code:	KWG0910708-1	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123FX25.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.02 g	**Column2:**	RTX-35
% Solids:	80.0		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	**14.4**		1.3	
688-73-3	Tri-n-butyltin	**15.0**		1.3	
1002-53-5	Di-n-butyltin	**4.96**		1.3	
2406-65-7	n-Butyltin	**9.53**		1.3	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	51	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123FX25.D
Lab ID: KWG0910708-1 -- K0911048-002MS
RunType: MS
Matrix: SEDIMENT

Date Acquired: 11/24/2009 07:06
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: [illegible] 11/24/09

Printed: 11/24/2009 09:22:34
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123FX25.D\1123FX25C.D
Lab ID: KWG0910708-1 -- K0911048-002MS
RunType: MS
Matrix: SEDIMENT

Date Acquired: 11/24/2009 07:06
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	[illegible]
Continuing Calibration Recovery	Tetra-n-butyltin	-25.1	NA	25	[illegible]

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:22:37
u:\Stealth\Crystal rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/18/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866954	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123FX25.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123FX25.D\1123FX25c.d			**Vial:**	23
Acqu Date:	11/24/2009 07:06	**Quant Date:**	11/24/2009 08:18	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0910708-1 -- K0911048-002MS				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	+0.01	1896026	1305141	58.28	64.06			51OK
					%Recovery =	47OK	51OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50	5.86	+0.01	1675931	1095410	57.82	67.57CCV	14.4	16.9	16.9
Tri-n-butyltin	7.51	6.81	+0.01	1808148	1434608	47.90	59.88	12.0	15.0	15.0
Di-n-butyltin	8.52	7.77	+0.01	950355	645631	18.61	19.88	4.65	4.96	4.96
n-Butyltin	9.51	8.71		2171778	1417111	37.19	38.18	9.29	9.53	9.53

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.02 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	80.0 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solid$)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Matrix Spike Summary Report

ListJoinID : LJ4743

Matrix Spike Information

Data File:	J:\GC26\DATA\112309B\1123FX25.D\1123FX25C.D	**Instrument:**	GC26
Lab ID:	KWG0910708-1	**Dilution:**	1.00
Client ID:	Matrix Spike	**Units:**	ug/Kg
Prod Code:	Butyltins BUTYL	**Acqu Date:**	11/24/2009 07:06
Matrix:	SEDIMENT	**Quant Date:**	11/24/2009 08:18

Duplicate Matrix Spike Information

Data File:	J:\GC26\DATA\112309B\1123F026.D\1123F026C.D	**Instrument:**	GC26
Lab ID:	KWG0910708-2	**Dilution:**	1.00
Client ID:	Duplicate Matrix Spike	**Units:**	ug/Kg
Prod Code:	Butyltins BUTYL	**Acqu Date:**	11/24/2009 06:49
Matrix:	SEDIMENT	**Quant Date:**	11/24/2009 08:18

Sample Reference Information

Data File:	J:\GC26\DATA\112309B\1123F024.D	**Instrument:**	GC26
Lab ID:	K0911048-002	**Dilution:**	1.00
Client ID:	SR-01-01-121109	**Units:**	ug/Kg
Prod Code:	Butyltins BUTYL	**Acqu Date:**	11/24/2009 06:17
Matrix:	SEDIMENT	**Quant Date:**	11/24/2009 09:01

Parameter Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Tetra-n-butyltin	ND	16.9	31.2	54	21.4	31.2	69	10-120	24	40
Tri-n-butyltin	ND	15.0	27.7	54	17.9	27.7	65	10-118	18	40
Di-n-butyltin	ND	4.96	24.0	21	6.12	24.0	26	10-145	21	40
n-Butyltin	ND	9.53	19.5	49	11.2	19.5	58	10-126	16	40
Tri-n-propyltin				51			60	18-95		

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed: 11/24/2009 09:19:57

u:\Stealth\Crystal.rpt\dms1.rpt

Signal #1 : J:\GC26\DATA\112309B\1123FX25.D\FPD1A.CH Vial: 23
Signal #2 : J:\GC26\DATA\112309B\1123FX25.D\FPD2B.CH
Acq On : 24 Nov 2009 7:06 am Operator: CCotnam
Sample : KWG0910708-1 | K0911048-002MS | Butyltin Inst : GC26
Misc : SEMIVOA GC\W0910708\1-MS.H | F=4 D=1 A=2 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:11 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

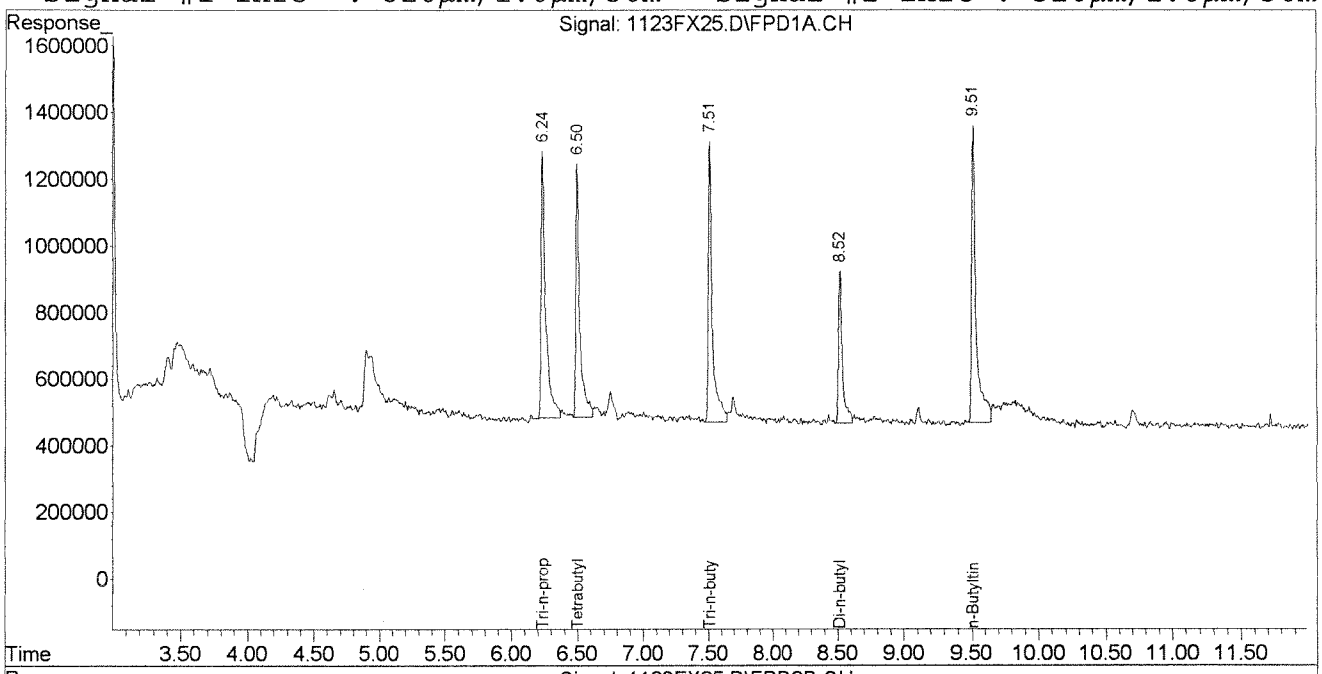
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	Tri-n-propyltin	6.24	5.65f	1896026	1305141	58.281	64.055	
		Target Compounds							
2)		Tetrabutyltin	6.50	5.86	1675931	1095410	57.818	67.574	
3)		Tri-n-butyltin	7.51	6.81	1808148	1434608	47.901	59.883	#
4)		Di-n-butyltin	8.52	7.77	950355	645631	18.605	19.876	
5)		n-Butyltin	9.51	8.71	2171778	1417111	37.191	38.176	

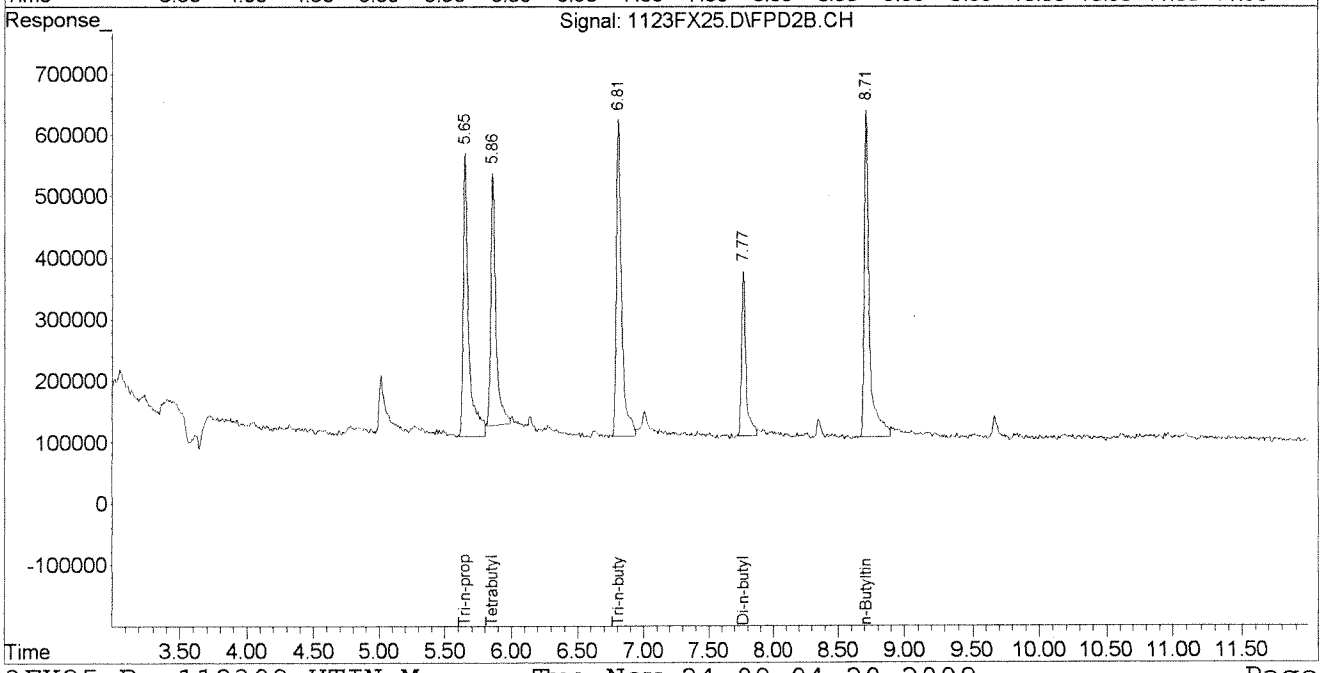
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
1123FX25.D 112309-HTIN.M Tue Nov 24 09:04:20 2009 Page 1

Signal #1 : J:\GC26\DATA\112309B\1123FX25.D\FPD1A.CH Vial: 23
Signal #2 : J:\GC26\DATA\112309B\1123FX25.D\FPD2B.CH
Acq On : 24 Nov 2009 7:06 am Operator: CCotnam
Sample : KWG0910708-1 | K0911048-002MS | Butyltin Inst : GC26
Misc : SEMIVOA GC\W0910708\1-MS.H | F=4 D=1 A=2 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 μL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320μm/1.0μm/30m Signal #2 Info : 320μm/1.0μm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Batch QCDMS	**Units:**	ug/Kg
Lab Code:	KWG0910708-2	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F026.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.02 g	**Column2:**	RTX-35
% Solids:	80.0		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	**16.6**		1.3	
688-73-3	Tri-n-butyltin	**17.9**		1.3	
1002-53-5	Di-n-butyltin	**6.12**		1.3	
2406-65-7	n-Butyltin	**11.2**		1.3	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	60	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F026.D
Lab ID: KWG0910708-2 -- K0911048-002DMS
RunType: DMS
Matrix: SEDIMENT

Date Acquired: 11/24/2009 06:49
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: 12/4/2009

Printed: 11/24/2009 09:22:28
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123F026.D\1123F026C.D
Lab ID: KWG0910708-2 -- K0911048-002DMS
RunType: DMS
Matrix: SEDIMENT

Date Acquired: 11/24/2009 06:49
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	NW
Continuing Calibration Recovery	Tetra-n-butyltin	-25.1	NA	25	NW

Primary Review: 11/24/09

Secondary Review: 11/24/09

Printed: 11/24/2009 09:22:31
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/18/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866955	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F026.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F026.D\1123F026c.d			**Vial:**	24
Acqu Date:	11/24/2009 06:49	**Quant Date:**	11/24/2009 08:18	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0910708-2 -- K0911048-002DMS				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	+0.01	2338051	1520029	71.87	74.60			60OK
					%Recovery =	57OK	60OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50	5.86	+0.01	1921712	1391201	66.30	85.82 CCV	16.6	21.4	21.4
Tri-n-butyltin	7.51	6.81	+0.01	2021626	1717541	53.56	71.69	13.4	17.9	17.9
Di-n-butyltin	8.52	7.77	+0.01	1110866	795525	21.75	24.49	5.43	6.12	6.12
n-Butyltin	9.51	8.71		2206324	1667611	37.78	44.92	9.44	11.2	11.2

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.02 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	80.0 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F026.D\FPD1A.CH Vial: 24
Signal #2 : J:\GC26\DATA\112309B\1123F026.D\FPD2B.CH
Acq On : 24 Nov 2009 6:49 am Operator: CCotnam
Sample : KWG0910708-2 | K0911048-002DMS | Butylti Inst : GC26
Misc : SEMIVOA GC\W0910708\2-DMS.H | F=4 D=1 A= Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:09 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

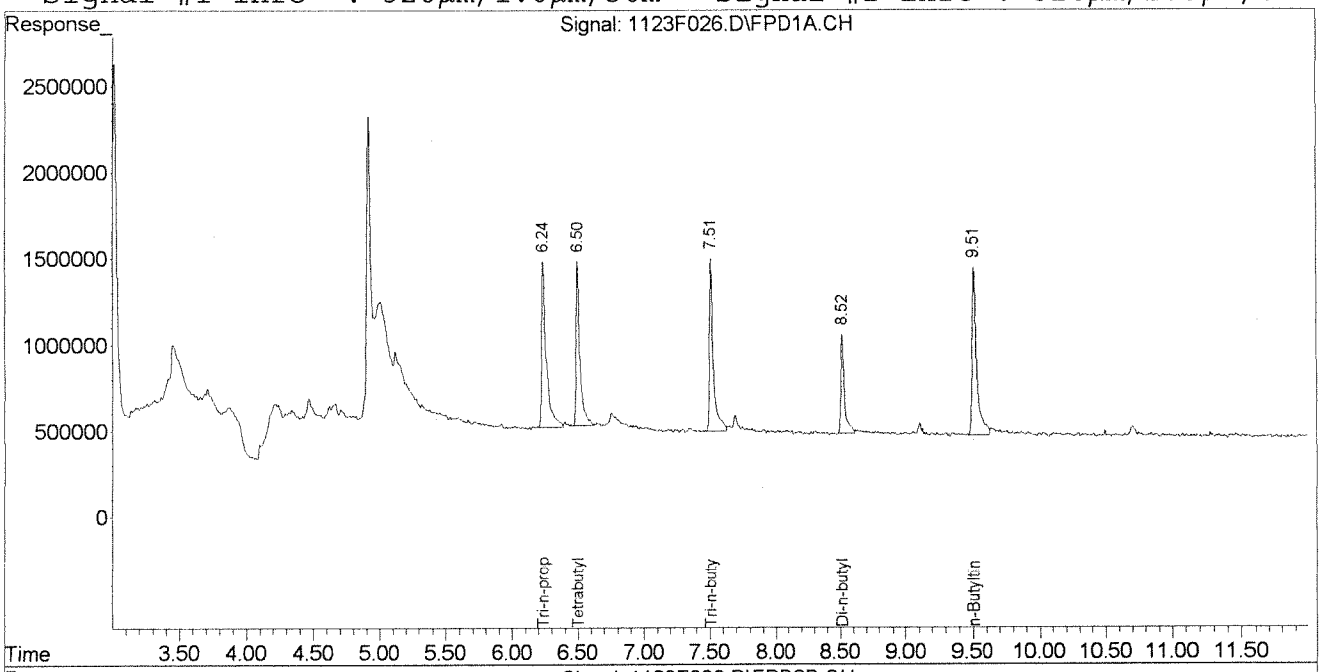
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	Tri-n-propyltin	6.24	5.65	2338051	1520029	71.868	74.602	
	Target Compounds							
2)	Tetrabutyltin	6.50	5.86	1921712	1391201	66.297	85.821	#
3)	Tri-n-butyltin	7.51	6.81	2021626	1717541	53.556	71.693	#
4)	Di-n-butyltin	8.52	7.77	1110866	795525	21.747	24.490	
5)	n-Butyltin	9.51	8.71	2206324	1667611	37.782	44.924	

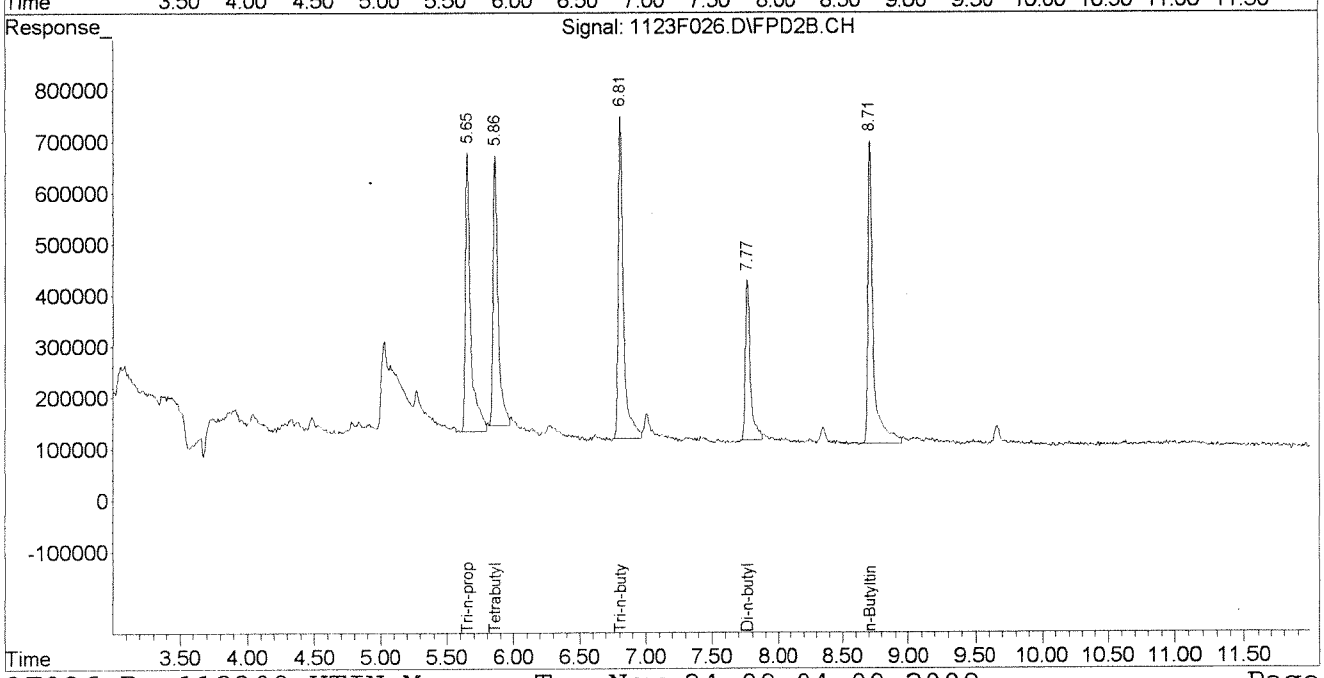
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
1123F026.D 112309-HTIN.M Tue Nov 24 09:04:09 2009 Page 1

Signal #1 : J:\GC26\DATA\112309B\1123F026.D\FPD1A.CH Vial: 24
Signal #2 : J:\GC26\DATA\112309B\1123F026.D\FPD2B.CH
Acq On : 24 Nov 2009 6:49 am Operator: CCotnam
Sample : KWG0910708-2 | K0911048-002DMS | Butylti Inst : GC26
Misc : SEMIVOA GC\W0910708\2-DMS.H | F=4 D=1 A= Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Lab Control Sample	**Units:**	ug/Kg
Lab Code:	KWG0910708-3	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F008.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.00 g	**Column2:**	RTX-35
% Solids:	NA		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	Note
1461-25-2	Tetra-n-butyltin	**14.1**		1.0	
688-73-3	Tri-n-butyltin	**13.2**		1.0	
1002-53-5	Di-n-butyltin	**12.7**		1.0	
2406-65-7	n-Butyltin	**9.76**		1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	59	18-95	11/24/09	Acceptable

Comments:

Exception Report

Data File: J:\GC26\DATA\112309B\1123F008.D
Lab ID: KWG0910708-3
RunType: LCS
Matrix: SEDIMENT

Date Acquired: 11/24/2009 01:25
Date Quantitated: 11/24/2009 08:17
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Printed: 11/24/2009 09:21:16
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	J:\GC26\DATA\112309B\1123F008.D\1123F008C.D	**Date Acquired:**	11/24/2009 01:25
Lab ID:	KWG0910708-3	**Date Quantitated:**	11/24/2009 08:17
RunType:	LCS	**Batch ID:**	KWG0911115
Matrix:	SEDIMENT	**Analysis Method:**	Krone
		MethodJoinID:	MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	fw
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-25.1	NA	25	fw

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:21:19

u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/18/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866956	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F008.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F008.D\1123F008c.d			**Vial:**	10
Acqu Date:	11/24/2009 01:25	**Quant Date:**	11/24/2009 08:17	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0910708-3				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.23	5.65 +0.01	2415152	1494084	74.24	73.33			59OK
			%Recovery =		59OK	59OK	Limits =	18-95	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50 +0.01	5.85	2036510	1239576	70.26	76.47 CCV	14.1	15.3	15.3
Tri-n-butyltin	7.51	6.80	2245054	1575511	59.48	65.77	11.9	13.2	13.2
Di-n-butyltin	8.51	7.76	3230996	1562658	63.25	48.11	12.7	9.62	12.7
n-Butyltin	9.51 +0.01	8.71 +0.01	2798150	1811271	47.92	48.79	9.58	9.76	9.76

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.00 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ4743

Data File:	J:\GC26\DATA\112309B\1123F008.D\1123F008C.D	**Instrument:**	GC26
Lab ID:	KWG0910708-3	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/Kg
Prod Code:	Butyltins BUTYL	**Acqu Date:**	11/24/2009 01:25
Matrix:	SEDIMENT	**Quant Date:**	11/24/2009 08:17

	Lab Control Spike			
Parameter Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Tetra-n-butyltin	15.3	25.0	61	30-110
Tri-n-butyltin	13.2	22.2	59	25-101
Di-n-butyltin	12.7	19.2	66	35-108
n-Butyltin	9.76	15.6	63	20-123

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed: 11/24/2009 09:17:58

Signal #1 : J:\GC26\DATA\112309B\1123F008.D\FPD1A.CH Vial: 10
Signal #2 : J:\GC26\DATA\112309B\1123F008.D\FPD2B.CH
Acq On : 24 Nov 2009 1:25 am Operator: CCotnam
Sample : KWG0910708-3 | LCS | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0910708\3-LCS.H | F=4 D=1 A= Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:55 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

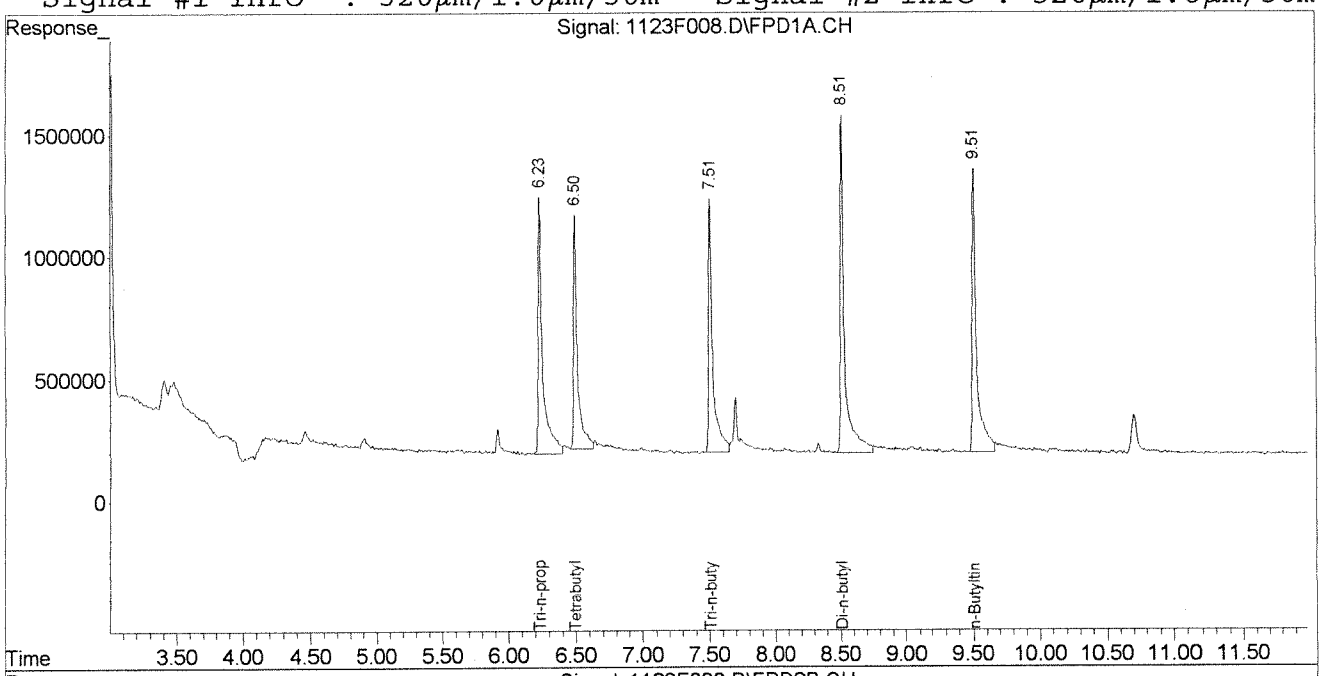
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.23f	5.65f	2415152	1494084	74.238	73.328
	Target Compounds						
2)	Tetrabutyltin	6.50	5.85	2036510	1239576	70.257	76.467
3)	Tri-n-butyltin	7.51	6.80	2245054	1575511	59.475	65.765
4)	Di-n-butyltin	8.51	7.76	3230996	1562658	63.251	48.106
5)	n-Butyltin	9.51	8.71	2798150	1811271	47.917	48.794

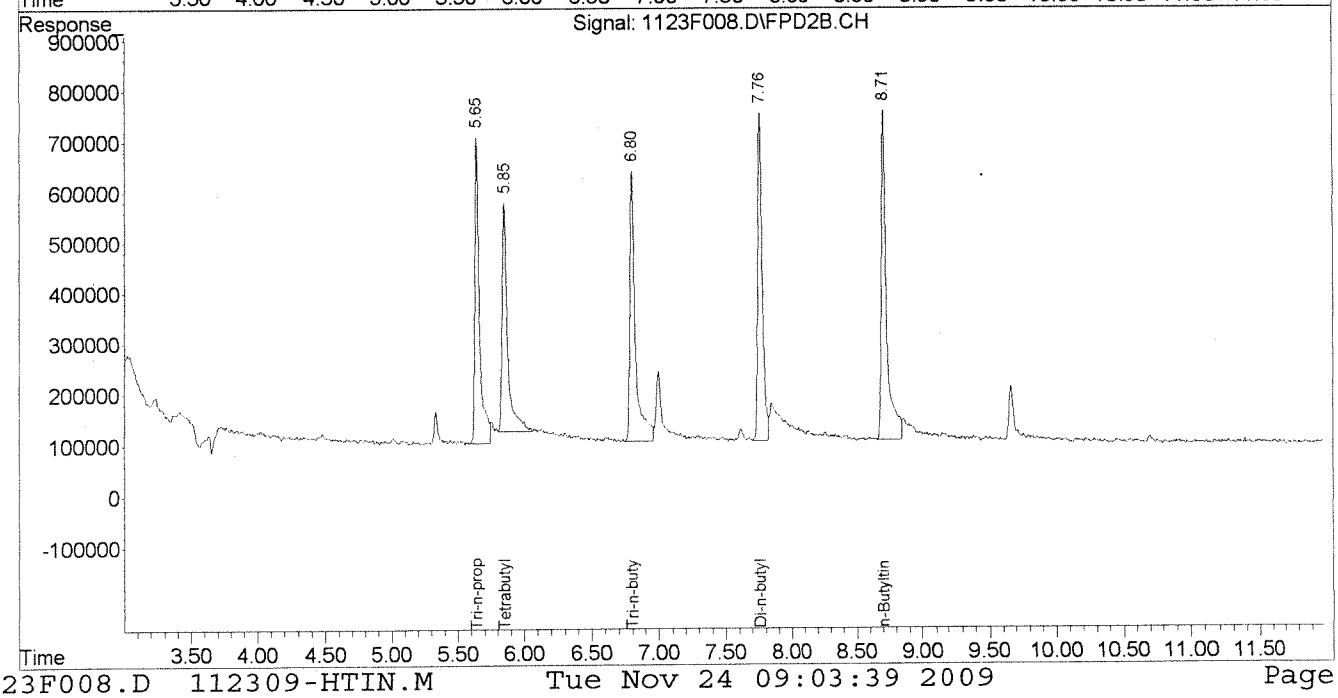
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
1123F008.D 112309-HTIN.M Tue Nov 24 09:03:38 2009 Page 1

Signal #1 : J:\GC26\DATA\112309B\1123F008.D\FPD1A.CH Vial: 10
Signal #2 : J:\GC26\DATA\112309B\1123F008.D\FPD2B.CH
Acq On : 24 Nov 2009 1:25 am Operator: CCotnam
Sample : KWG0910708-3 | LCS | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0910708\3-LCS.H | F=4 D=1 A= Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:17 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental	**Service Request:**	K0911048
Project:	Passaic RI/FS Sediment	**Date Collected:**	NA
Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Standard Reference Material
Butyltins

Sample Name:	NRC PACS-2	Units:	ug/Kg (ppb)
Lab Code:	KWG0910708-5	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Result Notes
Tri-n-butyltin Cation	Method	Krone	2400 ± 320	774	
Di-n-butyltin Cation	Method	Krone	2140 ± 290	1070	
n-Butyltin Cation	Method	Krone	670 ± 74	457	

Approved By: _____ Date: 112809

LCS (44)/091898p
K0911048svg.cc1 - srm 11/24/2009

Exception Report

Data File: J:\GC26\DATA\112309B\1123F009.D
Lab ID: KWG0910708-5
RunType: SOLN
Matrix: SEDIMENT

Date Acquired: 11/24/2009 01:41
Date Quantitated: 11/24/2009 08:17
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Exception Report

Data File: J:\GC26\DATA\112309B\1123F009.D\1123F009C.D
Lab ID: KWG0910708-5
RunType: SOLN
Matrix: SEDIMENT

Date Acquired: 11/24/2009 01:41
Date Quantitated: 11/24/2009 08:17
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	NC
Continuing Calibration Recovery (Closing)	Tetra-n-butyltin	-25.1	NA	25	NC

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:21:25
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SEDIMENT
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/18/2009

Analysis Lot:	KWG0911115	**Prep Lot:**	KWG0910708	**Report Group:**	
Analysis Method:	Krone	**Prep Method:**	METHOD		
Prep Ref:	866958	**Prep Date:**	11/17/2009		

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:	J:\GC26\DATA\112309B\1123F007.D	**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F009.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F009.D\1123F009c.d			**Vial:**	11
Acqu Date:	11/24/2009 01:41	**Quant Date:**	11/24/2009 08:17	**Dilution:**	1.0
Run Type:	SOLN			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0910708-5				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.23	5.64	2872271	1682765	88.29	82.59			71OK
			%Recovery =		71OK	66OK	**Limits =**	18-95	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000 CCV	8.8U	8.8U	8.8U
Tri-n-butyltin	7.51	6.80	7304607	4029212	193.51	168.19	774	673	774
Di-n-butyltin	8.51	7.76	13721835	7381548	268.62	227.24	1070	909	1070
n-Butyltin	9.51 +0.01	8.71 +0.01	6668950	3952019	114.20	106.47	457	426	457

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	1.00 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F009.D\FPD1A.CH Vial: 11
Signal #2 : J:\GC26\DATA\112309B\1123F009.D\FPD2B.CH
Acq On : 24 Nov 2009 1:41 am Operator: CCotnam
Sample : KWG0910708-5 SRM Inst : GC26
Misc : Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:57 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

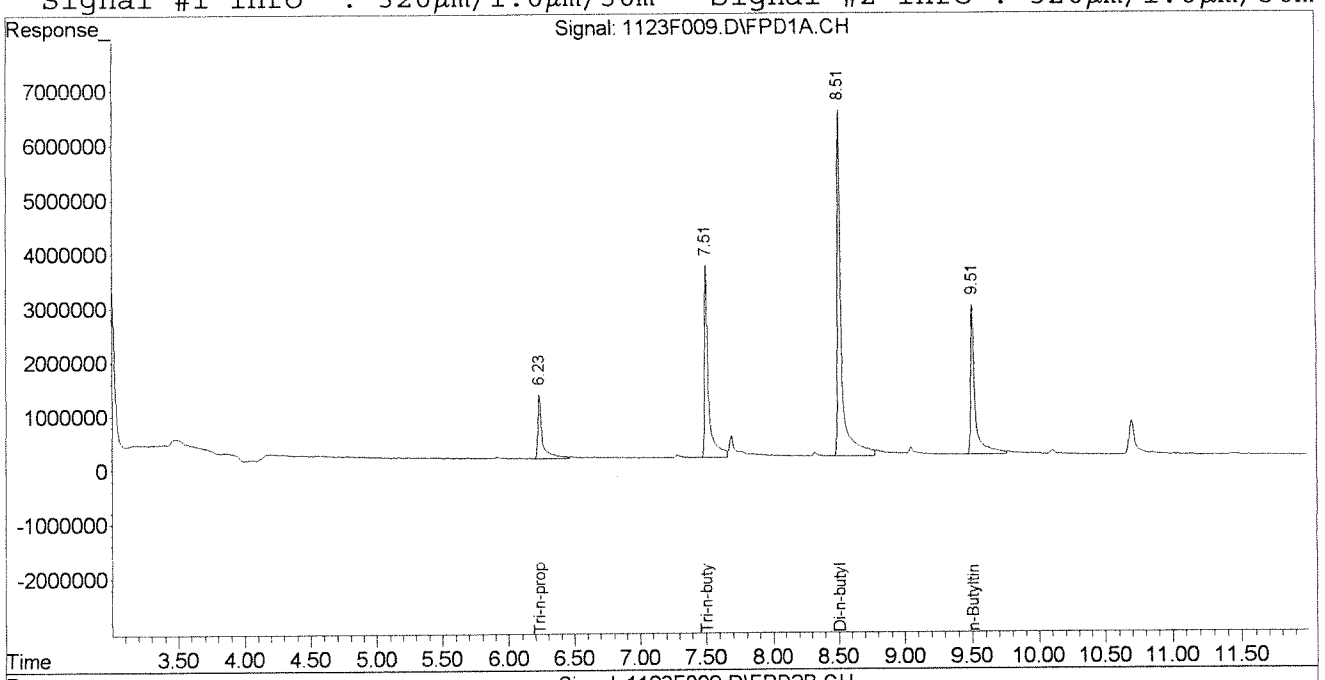
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.23f	5.64f	2872271	1682765	88.289	82.589
	Target Compounds						
3)	Tri-n-butyltin	7.51	6.80	7304607	4029212	193.510	168.186
4)	Di-n-butyltin	8.51	7.76	13721835	7381548	268.624	227.240
5)	n-Butyltin	9.51	8.71	6668950	3952019	114.203	106.465

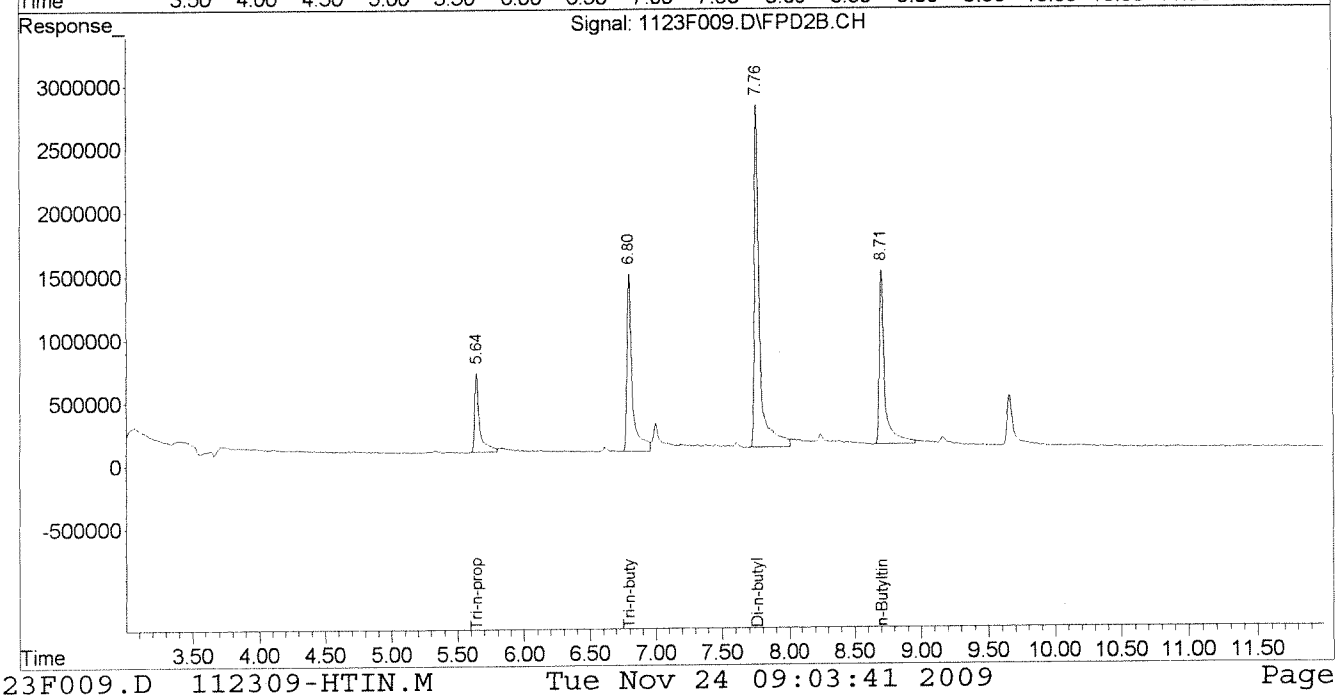
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F009.D\FPD1A.CH Vial: 11
Signal #2 : J:\GC26\DATA\112309B\1123F009.D\FPD2B.CH
Acq On : 24 Nov 2009 1:41 am Operator: CCotnam
Sample : KWG0910708-5 SRM Inst : GC26
Misc : Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:17 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Organic Analysis:
Butyltins (as cation)

Validation Package

Standards Data

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-1

Level ID	File ID	Level ID	File ID
A	J:\GC26\DATA\112309\1123FA14.D	E	J:\GC26\DATA\112309\1123FA18.D
B	J:\GC26\DATA\112309\1123FA15.D	F	J:\GC26\DATA\112309\1123FA19.D
C	J:\GC26\DATA\112309\1123FA16.D	G	J:\GC26\DATA\112309\1123FA20.D
D	J:\GC26\DATA\112309\1123FA17.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Tetra-n-butyltin				B	5.0	25200	C	20	26000	D	50	25800	E	200	28800
	F	500	31900	G	1000	36300									
Tri-n-butyltin	A	1.8	30100	B	4.5	32100	C	18	38400	D	45	38100	E	180	40700
	F	450	42800	G	890	42000									
Di-n-butyltin	A	1.5	43400	B	3.8	45000	C	15	47700	D	38	49500	E	150	54500
	F	380	60300	G	770	57200									
n-Butyltin	A	1.2	48600	B	3.1	50500	C	12	48600	D	31	57500	E	120	62900
	F	310	68900	G	620	71700									
Tri-n-propyltin				B	5.0	24500	C	20	30800	D	50	30300	E	200	35700
	F	500	36800	G	1000	37200									

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-1

Analyte Name	Compound Type	Calibration Evaluation					
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	
Tetra-n-butyltin	MS	AverageRF	% RSD	15.1		≤ 20	
Tri-n-butyltin	MS	AverageRF	% RSD	12.9		≤ 20	
Di-n-butyltin	MS	AverageRF	% RSD	12.4		≤ 20	
n-Butyltin	MS	AverageRF	% RSD	16.6		≤ 20	
Tri-n-propyltin	SURR	AverageRF	% RSD	15.2		≤ 20	

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009
Date Analyzed: 11/23/2009

Second Source Calibration Verification
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration ID: CAL9045
Units: ng/mL

File ID: J:\GC26\DATA\112309\1123FA21.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	54	29000	31200	8	NA	± 25 %	AverageRF
Tri-n-butyltin	45	43	37700	36700	-3	NA	± 25 %	AverageRF
Di-n-butyltin	38	38	51100	50800	-1	NA	± 25 %	AverageRF
n-Butyltin	31	32	58400	59100	1	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-35

Level ID	File ID	Level ID	File ID
A	J:\GC26\DATA\112309\1123FA14.D\1123FA14c.d	E	J:\GC26\DATA\112309\1123FA18.D\1123FA18c.d
B	J:\GC26\DATA\112309\1123FA15.D\1123FA15c.d	F	J:\GC26\DATA\112309\1123FA19.D\1123FA19c.d
C	J:\GC26\DATA\112309\1123FA16.D\1123FA16c.d	G	J:\GC26\DATA\112309\1123FA20.D\1123FA20c.d
D	J:\GC26\DATA\112309\1123FA17.D\1123FA17c.d		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Tetra-n-butyltin				B	5.0	16000	C	20	17900	D	50	12000	E	200	14200
	F	500	17400	G	1000	19800									
Tri-n-butyltin				B	4.5	17100	C	18	28000	D	45	21900	E	180	23300
	F	450	25700	G	890	27700									
Di-n-butyltin				B	3.8	32500	C	15	32800	D	38	29000	E	150	30000
	F	380	34400	G	770	36200									
n-Butyltin				B	3.1	29800	C	12	39300	D	31	34300	E	120	37000
	F	310	39800	G	620	42600									
Tri-n-propyltin				B	5.0	22700	C	20	20100	D	50	19200	E	200	18200
	F	500	19600	G	1000	22500									

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009

Initial Calibration Summary
Butyltins (as cation)

Calibration ID: CAL9045
Instrument ID: GC26

Column: RTX-35

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Tetra-n-butyltin	MS	AverageRF	% RSD	17.3		≤ 20
Tri-n-butyltin	MS	AverageRF	% RSD	17.2		≤ 20
Di-n-butyltin	MS	AverageRF	% RSD	8.3		≤ 20
n-Butyltin	MS	AverageRF	% RSD	12.2		≤ 20
Tri-n-propyltin	SURR	AverageRF	% RSD	9.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Calibration Date: 11/23/2009
Date Analyzed: 11/23/2009

Second Source Calibration Verification
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration ID: CAL9045
Units: ng/mL

File ID: J:\GC26\DATA\112309\1123FA21.D\1123FA21c.d

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	SSV RF	%D		%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	66	16200	21500	32	*	NA	± 25 %	AverageRF
Tri-n-butyltin	45	48	24000	25700	7		NA	± 25 %	AverageRF
Di-n-butyltin	38	45	32500	38400	18		NA	± 25 %	AverageRF
n-Butyltin	31	37	37100	44600	20		NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Sequence Name: C:\GC26\SEQUENCE\112309.S
Comment:
Operator: CCotnam
Data Path: C:\GC26\DATA\112309\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	100	1123FA01	TINS2	PRIMER
2	SOLN	100	1123FA02	TINS2	PRIMER
3	SOLN	100	1123FA03	TINS2	PRIMER
4	SOLN	100	1123FA04	TINS2	PRIMER
5	SOLN	100	1123FA05	TINS2	PRIMER
6	SOLN	100	1123FA06	TINS2	PRIMER
7	SOLN	100	1123FA07	TINS2	PRIMER
8	SOLN	100	1123FA08	TINS2	PRIMER
9	SOLN	100	1123FA09	TINS2	PRIMER
10	SOLN	100	1123FA10	TINS2	PRIMER
11	SOLN	100	1123FA11	TINS2	PRIMER
12	IB	76	1123FA12	TINS2	HEX
13	IB	77	1123FA13	TINS2	HEX
14	ICAL	78	1123FA14	TINS2	HTINS@ 2PPB OT4-26G
15	ICAL	79	1123FA15	TINS2	HTINS@ 5PPB OT4-26H
16	ICAL	80	1123FA16	TINS2	HTINS@ 20PPB OT4-26I
17	ICAL	81	1123FA17	TINS2	HTINS@ 50PPB OT4-27a
18	ICAL	82	1123FA18	TINS2	HTINS@ 200PPB OT4-26R
19	ICAL	83	1123FA19	TINS2	HTINS@ 500PPB OT4-26K
20	ICAL	84	1123FA20	TINS2	HTINS@ 1000PPB OT4-26L
21	ICV	85	1123FA21	TINS2	HTINS @ 50PPB OT4-26E

JCAL 9645

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA13.D\FPD1A.CH Vial: 77
Signal #2 : J:\GC26\DATA\112309\1123FA13.D\FPD2B.CH
Acq On : 23 Nov 2009 9:05 pm Operator: CCotnam
Sample : HEX Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:54:39 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 06:50:48 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

Target Compounds

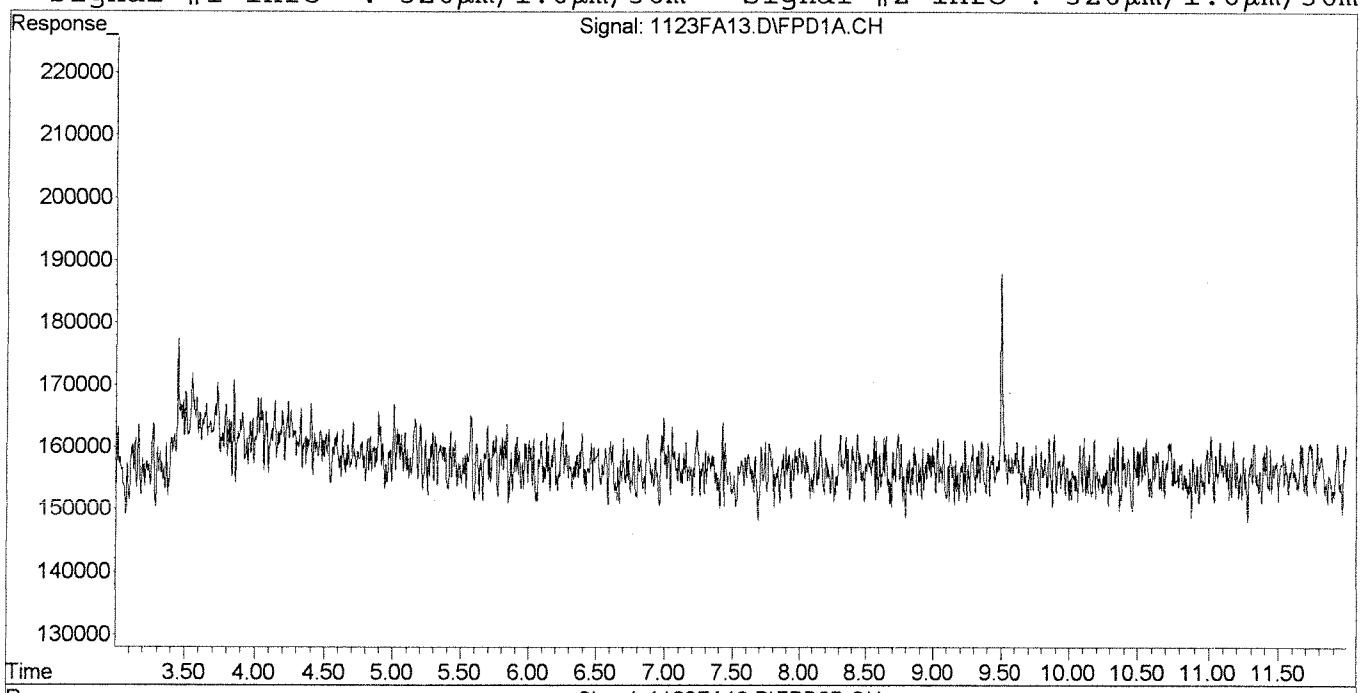
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

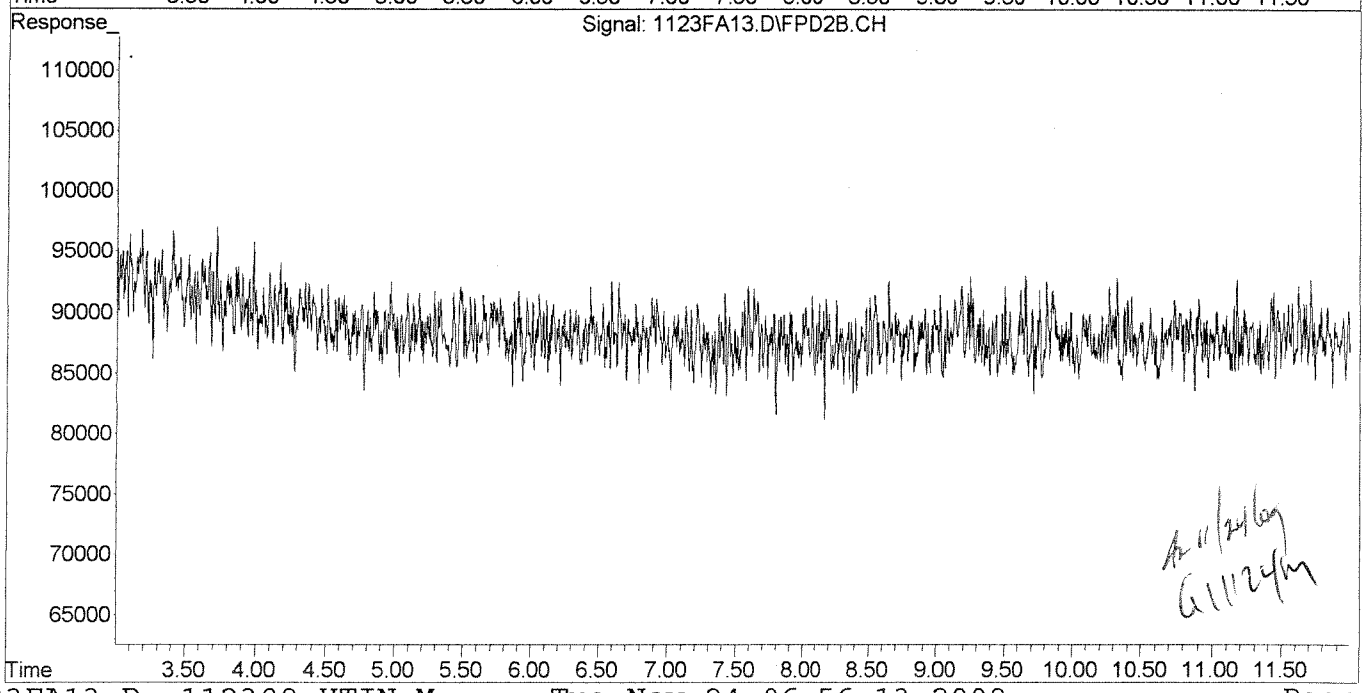
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA13.D\FPD1A.CH Vial: 77
Signal #2 : J:\GC26\DATA\112309\1123FA13.D\FPD2B.CH
Acq On : 23 Nov 2009 9:05 pm Operator: CCotnam
Sample : HEX Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:55 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 06:50:48 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Quantitation Report (Not Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA14.D\FPD1A.CH Vial: 78
Signal #2 : J:\GC26\DATA\112309\1123FA14.D\FPD2B.CH
Acq On : 23 Nov 2009 9:21 pm Operator: CCotnam
Sample : HTINS@ 2PPB OT4-26G Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:43:58 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
	Target Compounds							
3)	Tri-n-butyltin	7.51	0.00	53648	0	0.912	N.D.	d#
4)	Di-n-butyltin	8.52	0.00	66527	0	0.884	N.D.	d#
5)	n-Butyltin	9.50	0.00	60595	0	0.708	N.D.	d#

A 11/24/09
A 11/24/09

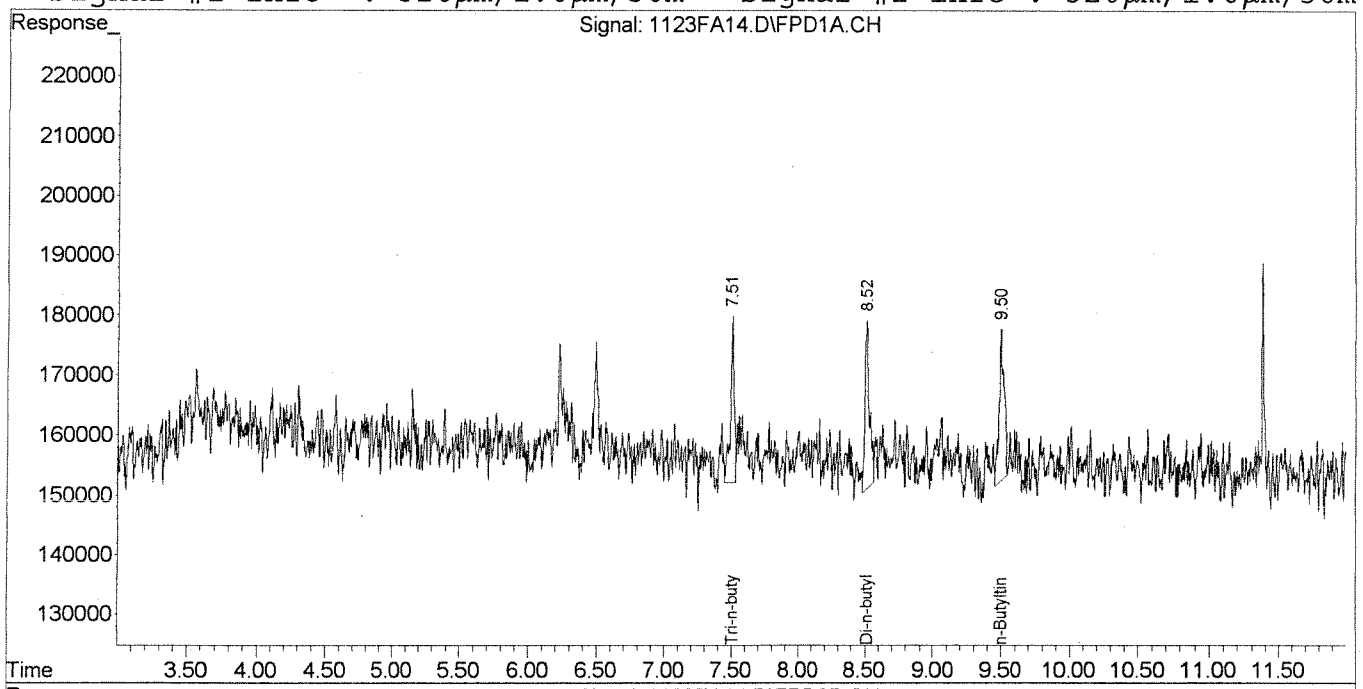
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

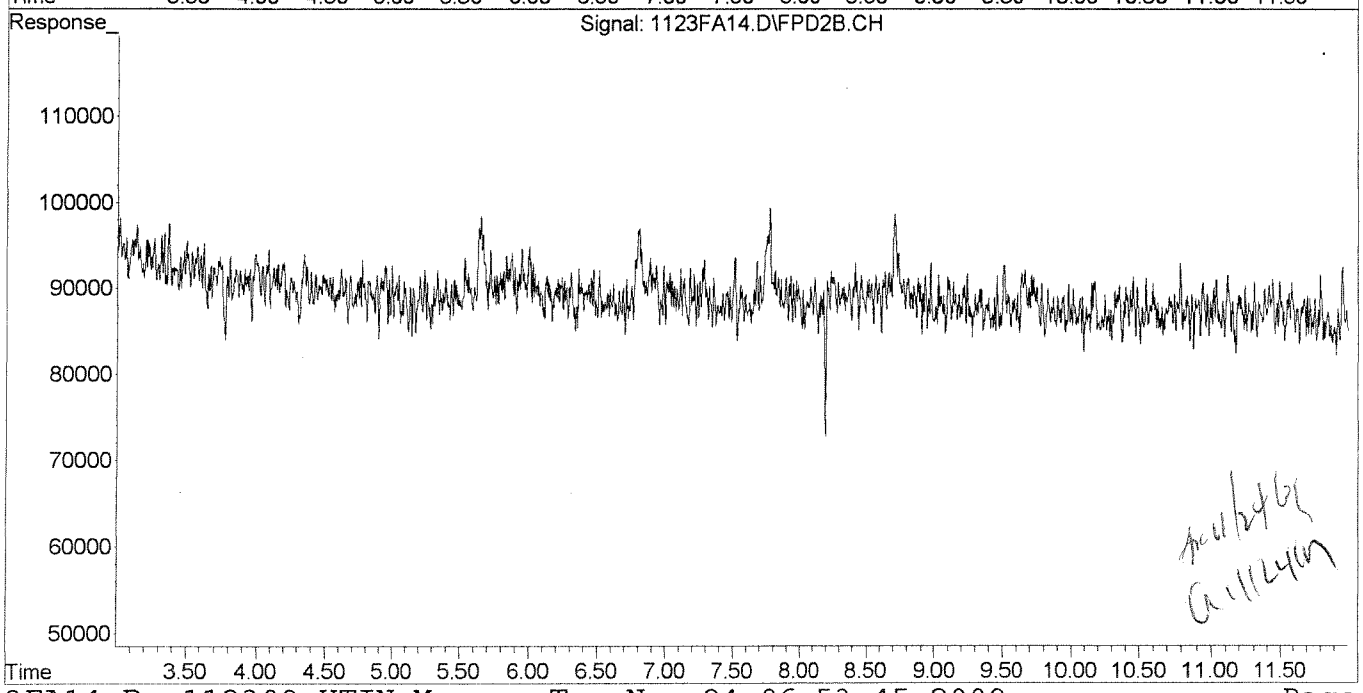
Quantitation Report (Not Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA14.D\FPD1A.CH Vial: 78
Signal #2 : J:\GC26\DATA\112309\1123FA14.D\FPD2B.CH
Acq On : 23 Nov 2009 9:21 pm Operator: CCotnam
Sample : HTINS@ 2PPB OT4-26G Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:44 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA15.D\FPD1A.CH Vial: 79
Signal #2 : J:\GC26\DATA\112309\1123FA15.D\FPD2B.CH
Acq On : 23 Nov 2009 9:38 pm Operator: CCotnam
Sample : HTINS@ 5PPB OT4-26H Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:43:58 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.23f	5.64f	122329	113619	2.465	4.249 #
		Target Compounds						
2)		Tetrabutyltin	6.49f	5.86	126145	80087	2.945	3.484m
3)		Tri-n-butyltin	7.51	6.80	142996	76170	2.431	2.335m
4)		Di-n-butyltin	8.51	7.76	172573	124442	2.294	3.076 #
5)		n-Butyltin	9.51	8.71	157312	92928	1.838	1.924

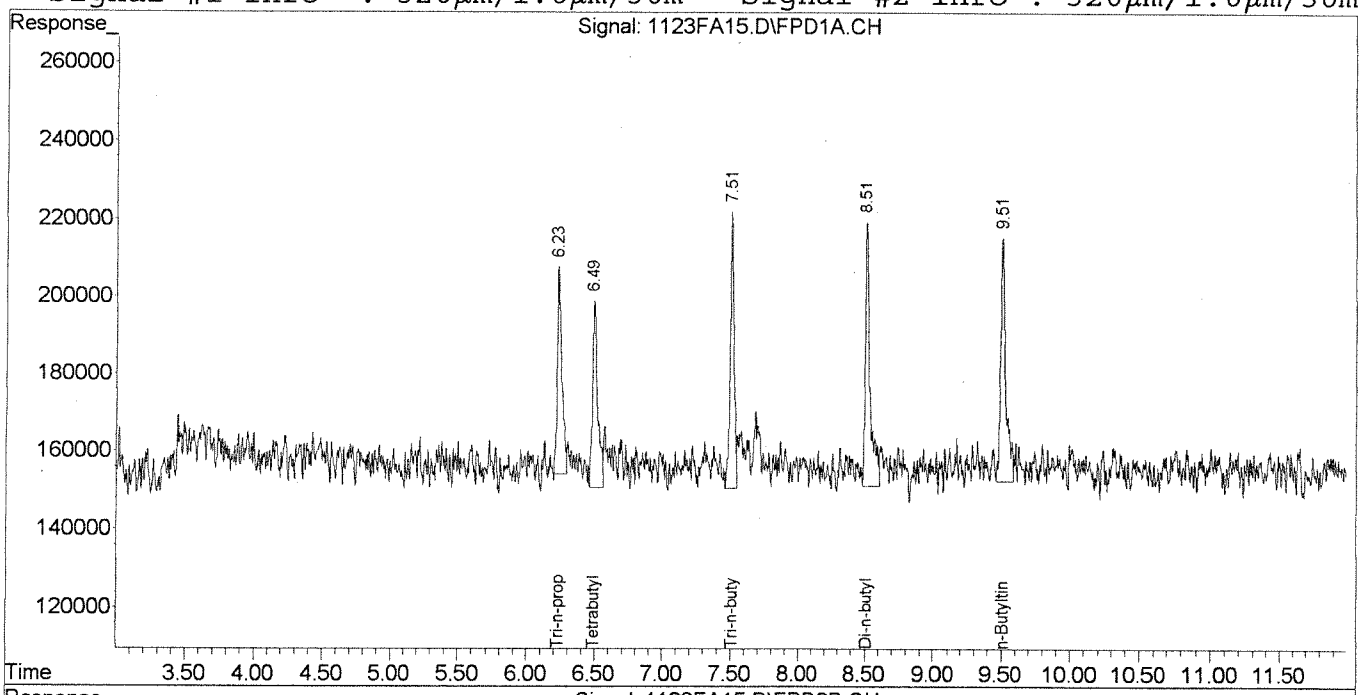
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

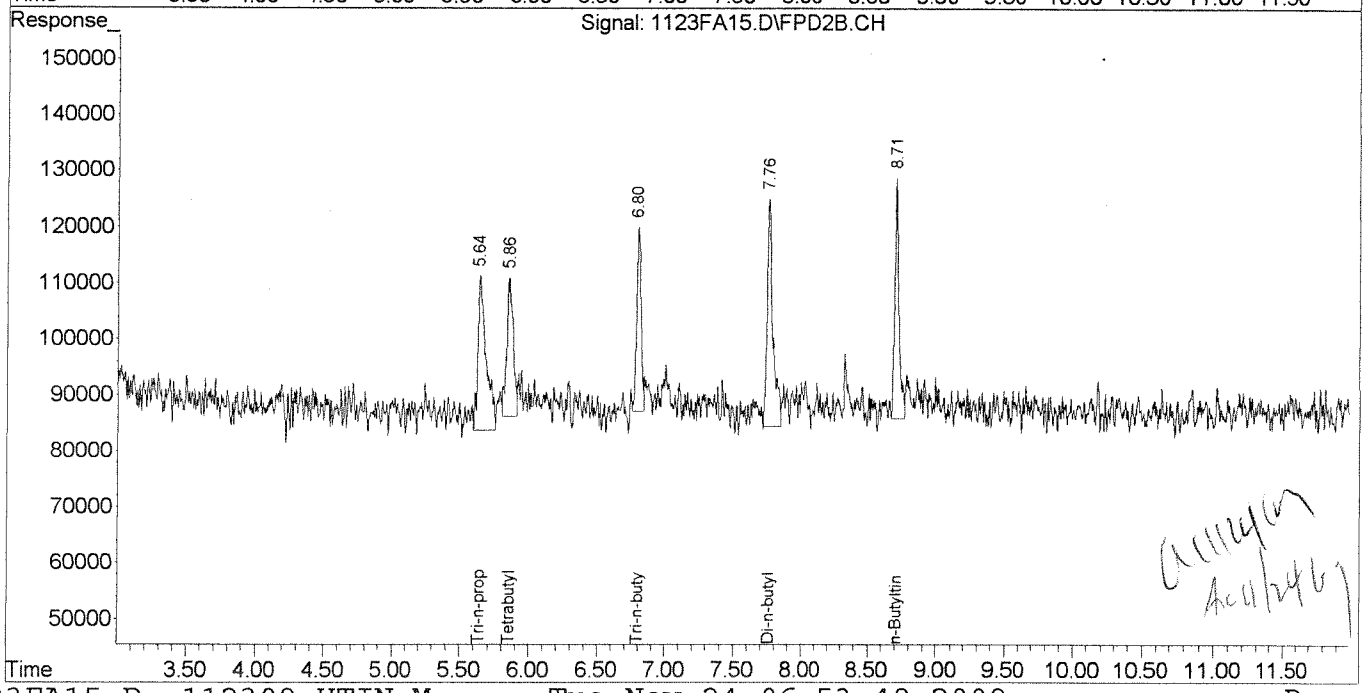
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA15.D\FPD1A.CH Vial: 79
Signal #2 : J:\GC26\DATA\112309\1123FA15.D\FPD2B.CH
Acq On : 23 Nov 2009 9:38 pm Operator: CCotnam
Sample : HTINS@ 5PPB OT4-26H Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:45 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

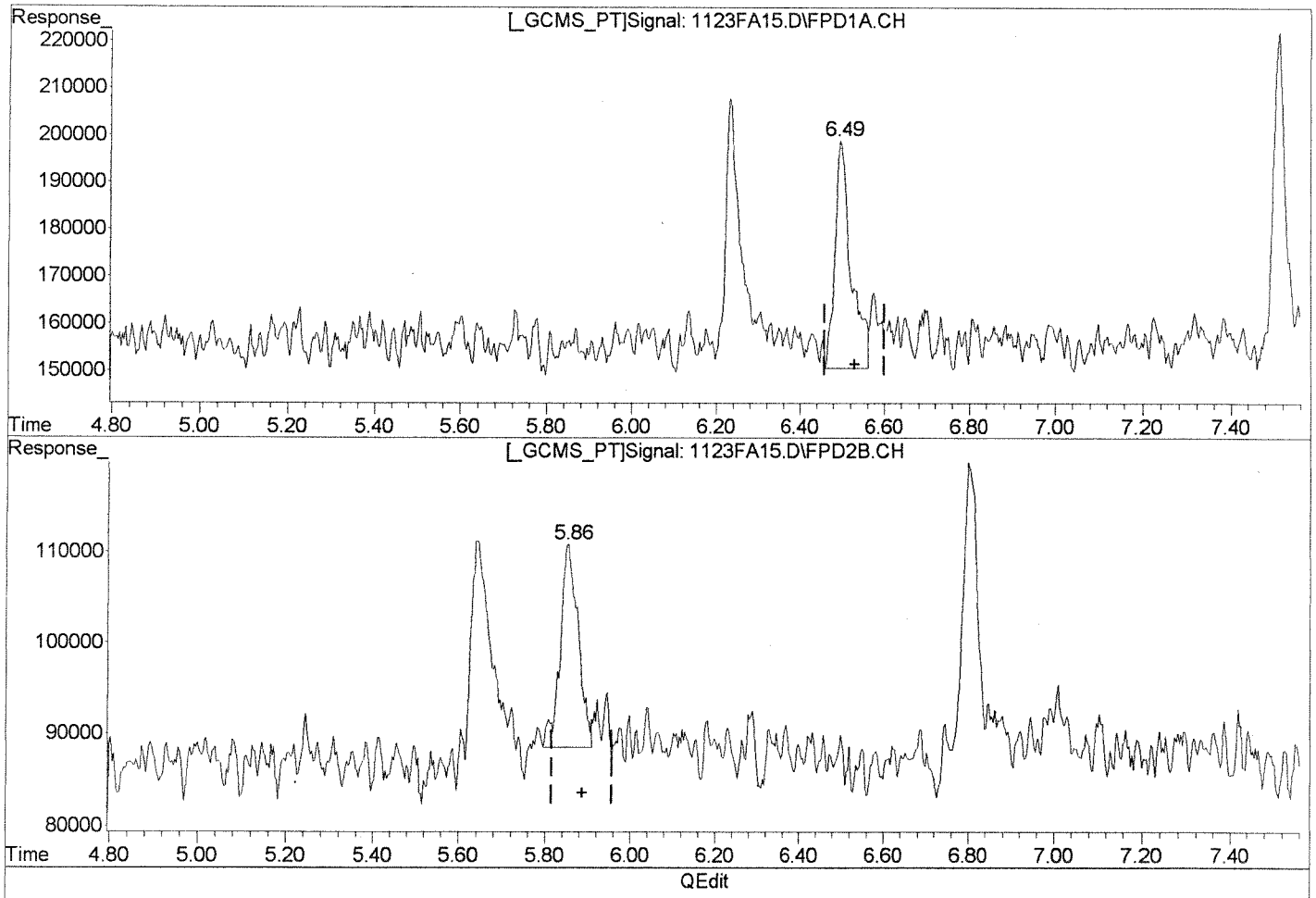




Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309\1123FA15.D\FPD1A.CH Vial: 79
Signal #2 : J:\GC26\DATA\112309\1123FA15.D\FPD2B.CH
Acq On : 23 Nov 2009 9:38 pm Operator: CCotnam
Sample : HTINS@ 5PPB OT4-26H Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:43 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration



(2) Tetrabutyltin

6.49min 2.945ng/mL

response 126145

Before

(2) Tetrabutyltin #2

5.86min 2.875ng/mL

response 65316

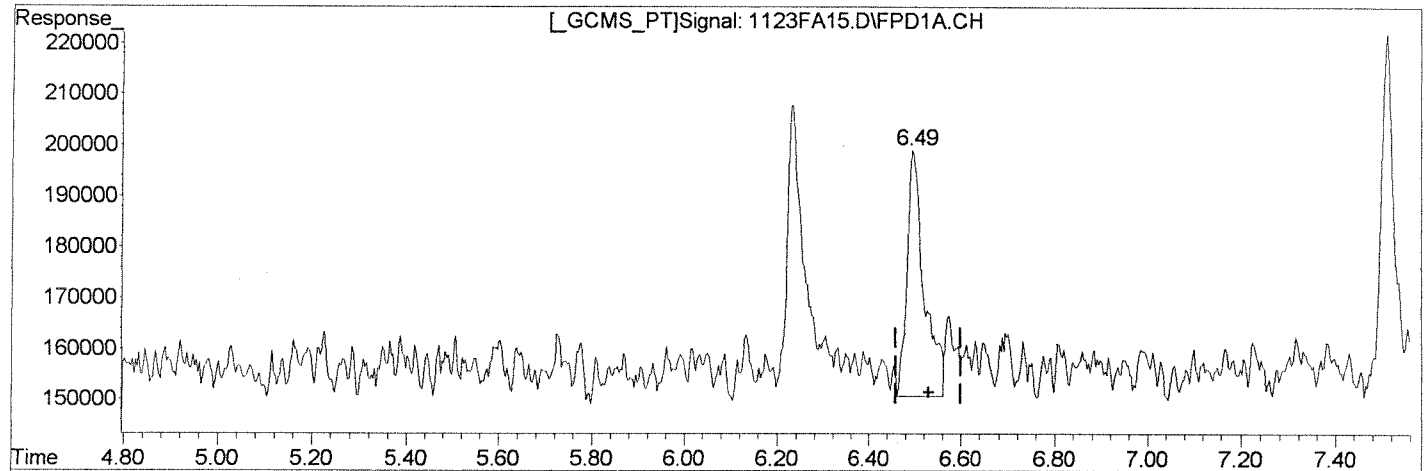
(+) = Expected Retention Time

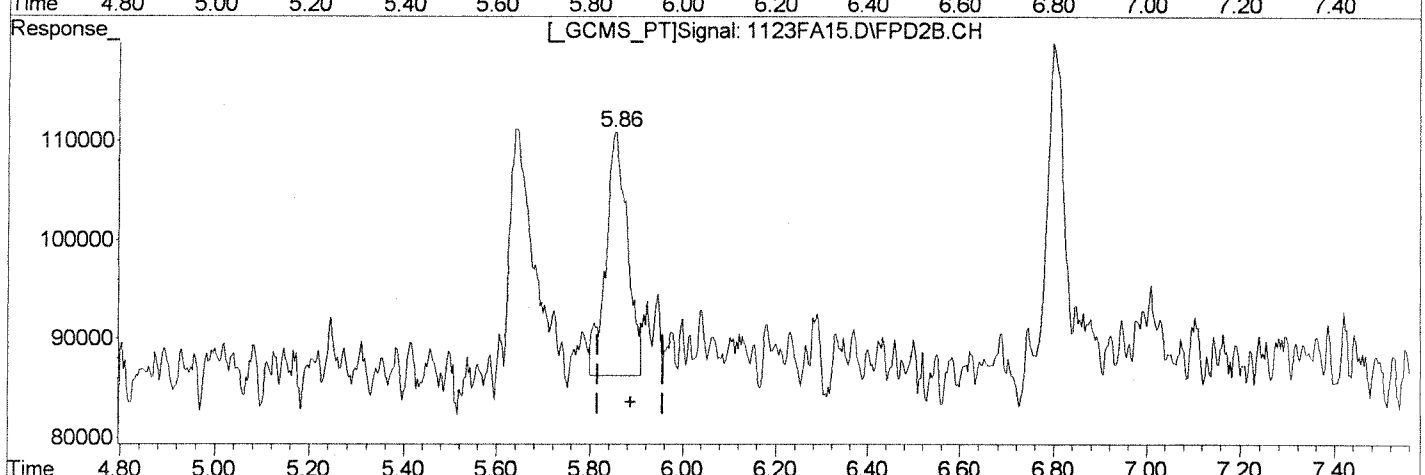
1123FA15.D 112309-HTIN.M Tue Nov 24 06:44:52 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309\1123FA15.D\FPD1A.CH Vial: 79
Signal #2 : J:\GC26\DATA\112309\1123FA15.D\FPD2B.CH
Acq On : 23 Nov 2009 9:38 pm Operator: CCotnam
Sample : HTINS@ 5PPB OT4-26H Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:43 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration





QEdit

(2) Tetrabutyltin

6.49min 2.945ng/mL

response 126145

(2) Tetrabutyltin #2

5.86min 3.484ng/mL m

response 80087

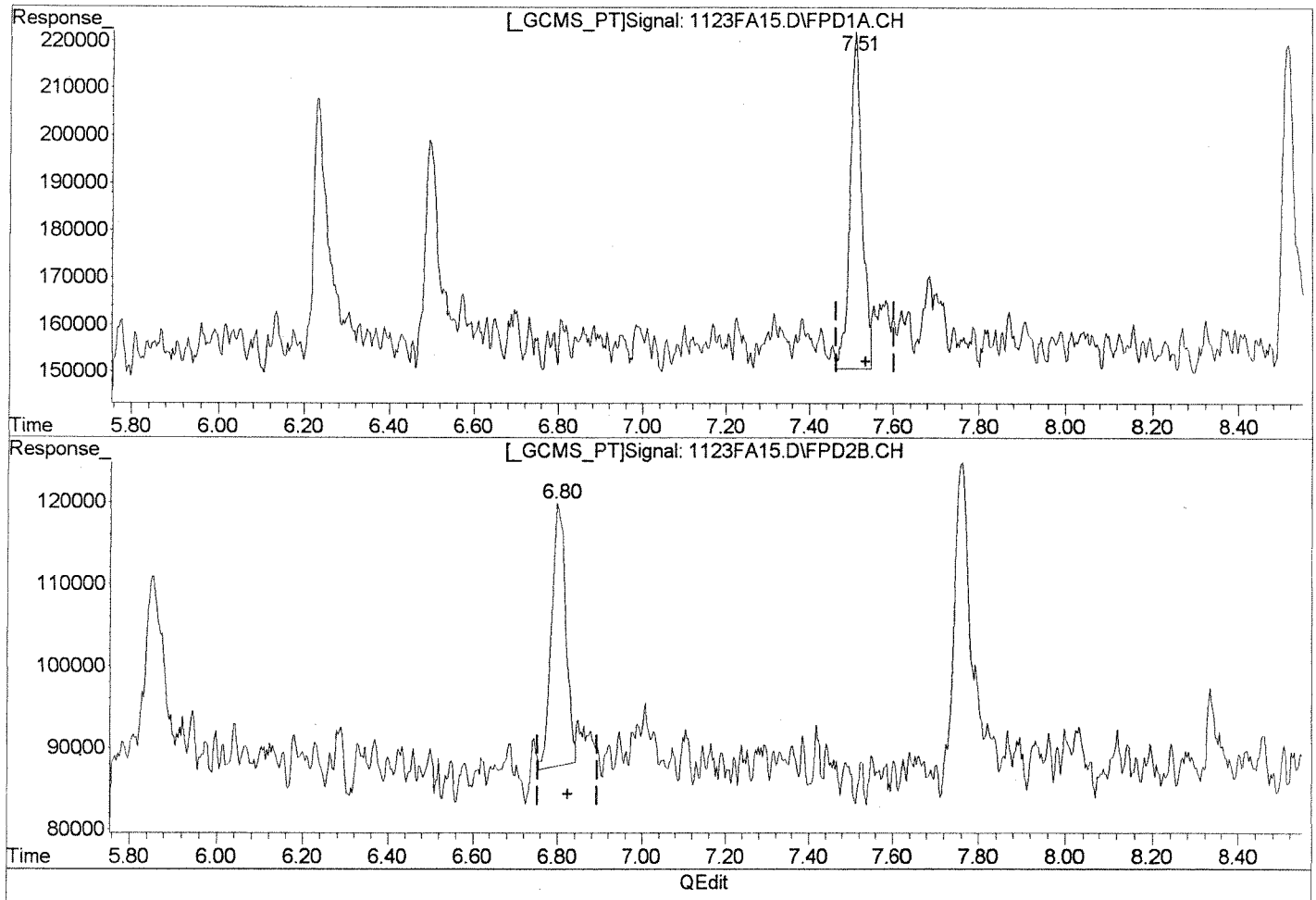
(+) = Expected Retention Time

1123FA15.D 112309-HTIN.M Tue Nov 24 06:45:15 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309\1123FA15.D\FPD1A.CH Vial: 79
Signal #2 : J:\GC26\DATA\112309\1123FA15.D\FPD2B.CH
Acq On : 23 Nov 2009 9:38 pm Operator: CCotnam
Sample : HTINS@ 5PPB OT4-26H Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:43 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration



(3) Tri-n-butyltin

7.51min 2.431ng/mL

response 142996

(3) Tri-n-butyltin #2

6.80min 2.245ng/mL

response 73240

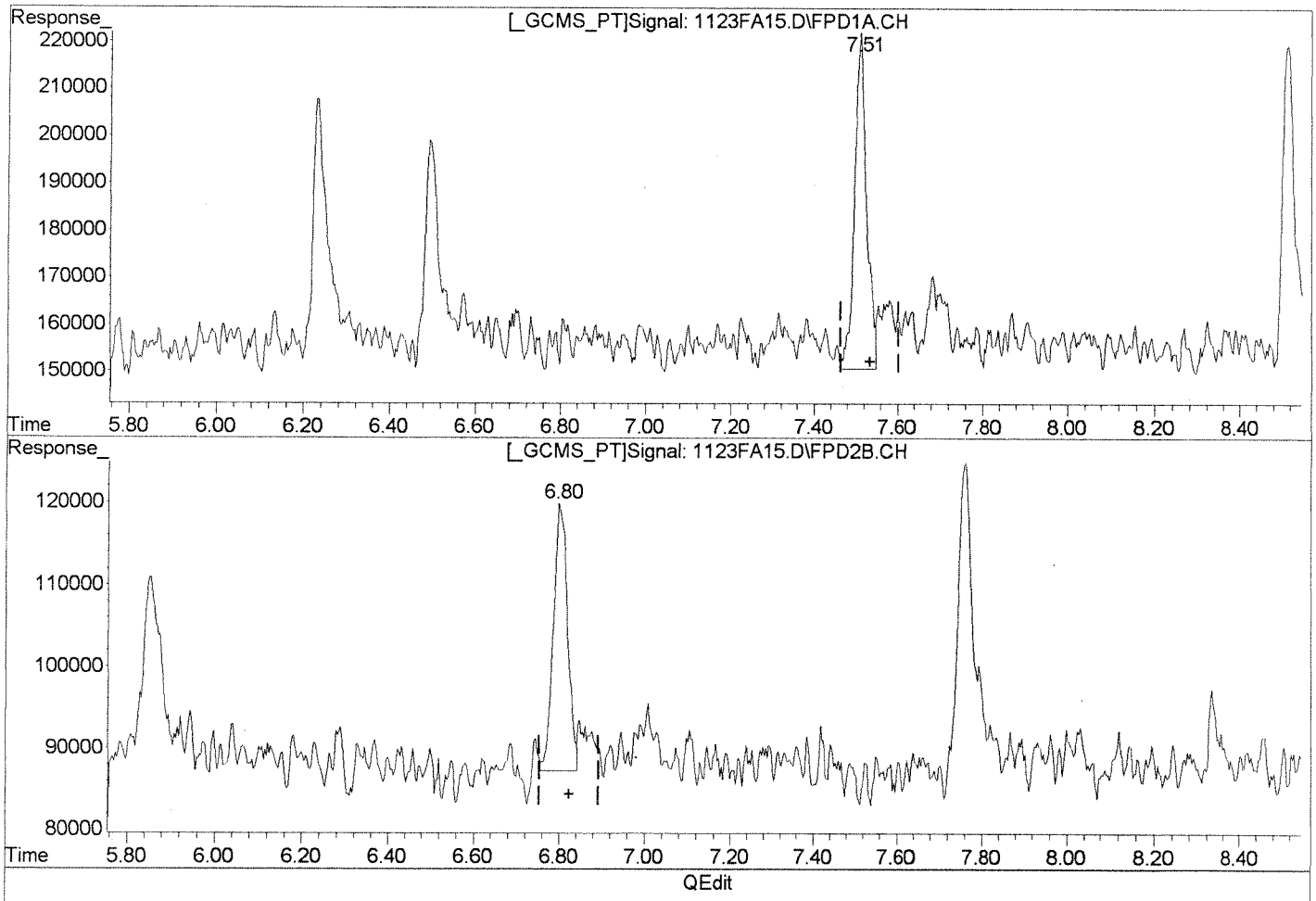
(+) = Expected Retention Time

1123FA15.D 112309-HTIN.M Tue Nov 24 06:45:21 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112309\1123FA15.D\FPD1A.CH Vial: 79
Signal #2 : J:\GC26\DATA\112309\1123FA15.D\FPD2B.CH
Acq On : 23 Nov 2009 9:38 pm Operator: CCotnam
Sample : HTINS@ 5PPB OT4-26H Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:43 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration



(3) Tri-n-butyltin

7.51min 2.431ng/mL

response 142996

(3) Tri-n-butyltin #2

6.80min 2.335ng/mL m

response 76170

(+) = Expected Retention Time

1123FA15.D 112309-HTIN.M Tue Nov 24 06:45:33 2009

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA16.D\FPD1A.CH Vial: 80
Signal #2 : J:\GC26\DATA\112309\1123FA16.D\FPD2B.CH
Acq On : 23 Nov 2009 9:54 pm Operator: CCotnam
Sample : HTINS@ 20PPB OT4-26I Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:43:59 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	Tri-n-propyltin	6.23f	5.64f	615575	401130	12.405	15.001	
		Target Compounds							
2)		Tetrabutyltin	6.49f	5.85f	519718	357663	12.133	14.917	
3)		Tri-n-butyltin	7.51	6.80	684488	498858	11.639	15.292	#
4)		Di-n-butyltin	8.51	7.76	731761	502874	9.729	12.432	#
5)		n-Butyltin	9.50	8.71	605951	489552	7.080	10.137	#

11/24/09
Acceptable

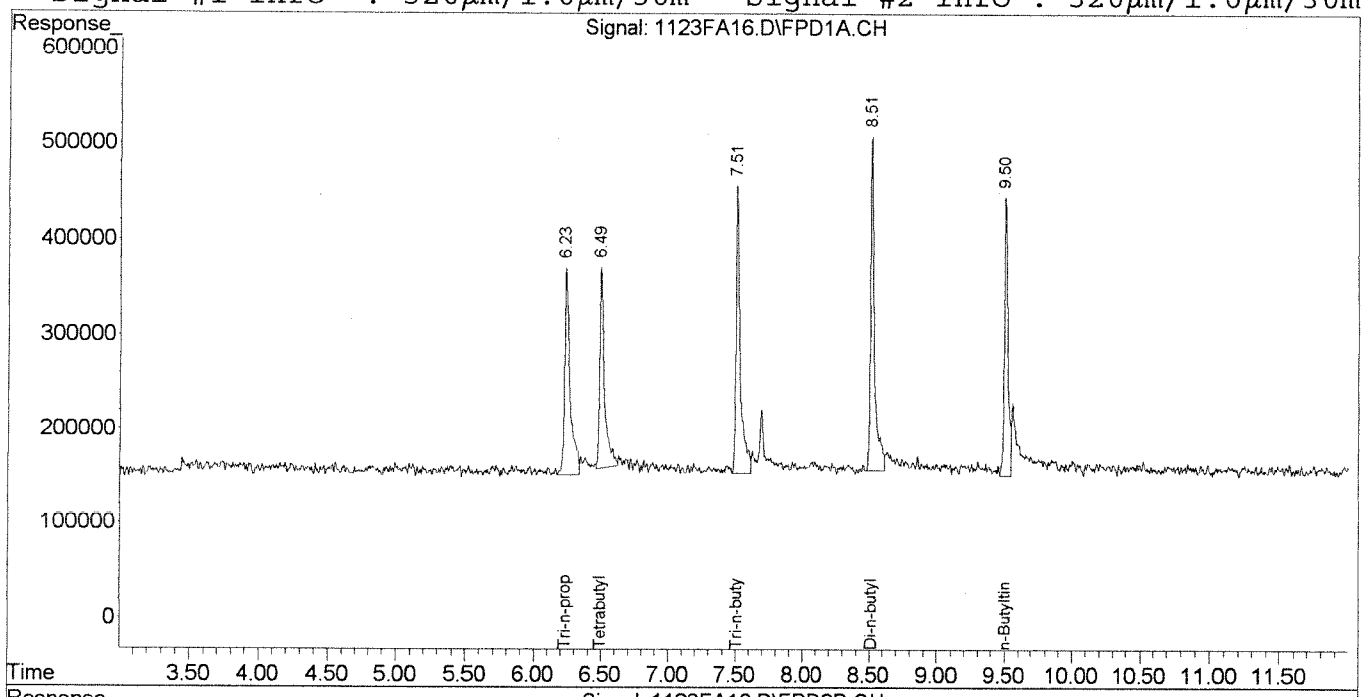
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

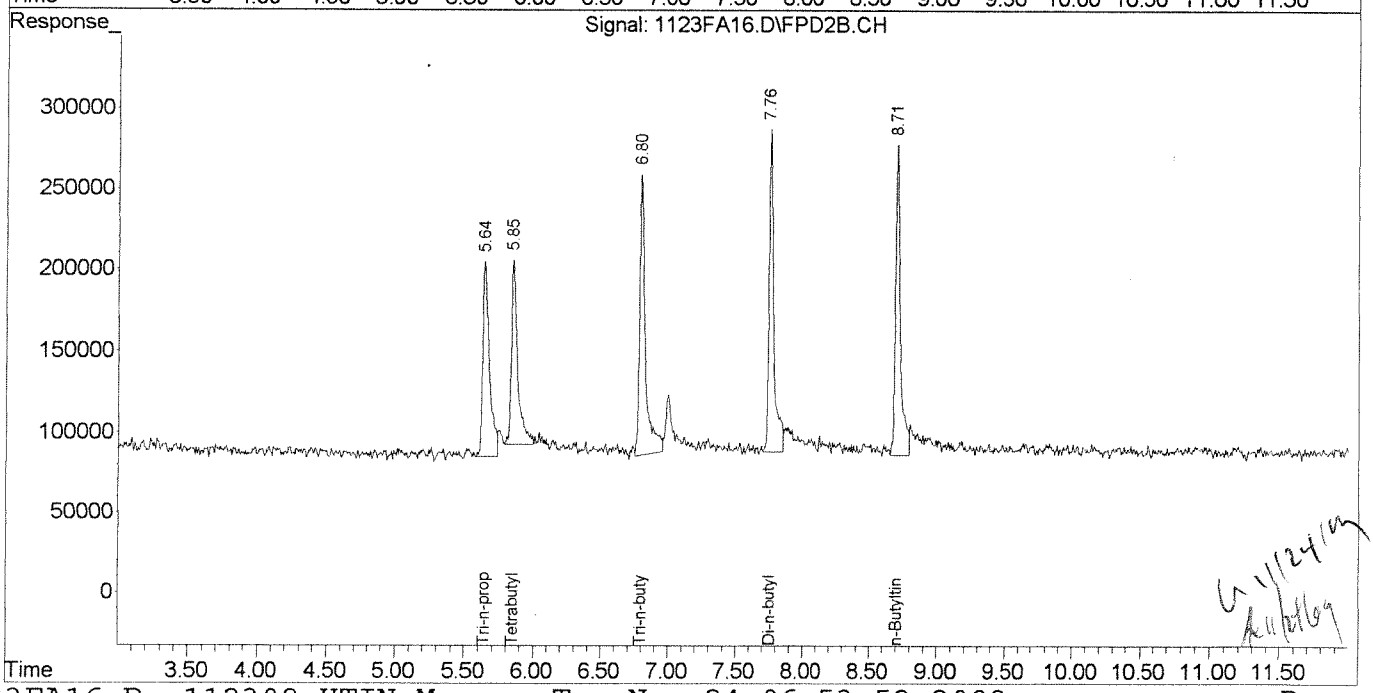
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA16.D\FPD1A.CH Vial: 80
Signal #2 : J:\GC26\DATA\112309\1123FA16.D\FPD2B.CH
Acq On : 23 Nov 2009 9:54 pm Operator: CCotnam
Sample : HTINS@ 20PPB OT4-26I Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:43 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 μL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320μm/1.0μm/30m Signal #2 Info : 320μm/1.0μm/30m





Signal #1 : J:\GC26\DATA\112309\1123FA17.D\FPD1A.CH Vial: 81
Signal #2 : J:\GC26\DATA\112309\1123FA17.D\FPD2B.CH
Acq On : 23 Nov 2009 10:11 pm Operator: CCotnam
Sample : HTINS@ 50PPB OT4-27a Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:44:00 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.23f	5.64f	1515571	959406	30.541	35.879
		Target Compounds						
2)		Tetrabutyltin	6.50	5.85f	1287873	599173	30.066	24.855
3)		Tri-n-butyltin	7.51	6.80	1697831	975831	28.870	29.913
4)		Di-n-butyltin	8.52	7.76	1896676	1112082	25.216	27.492
5)		n-Butyltin	9.51	8.70	1789985	1068985	20.913	22.136

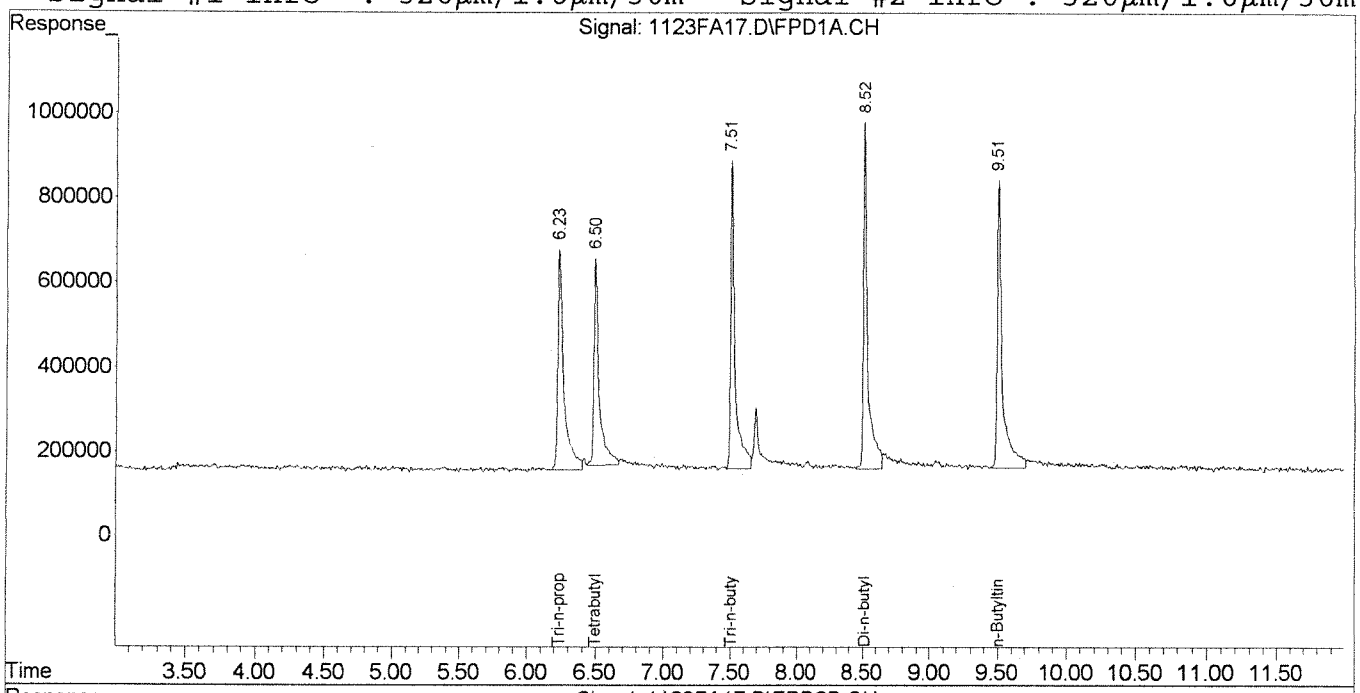
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

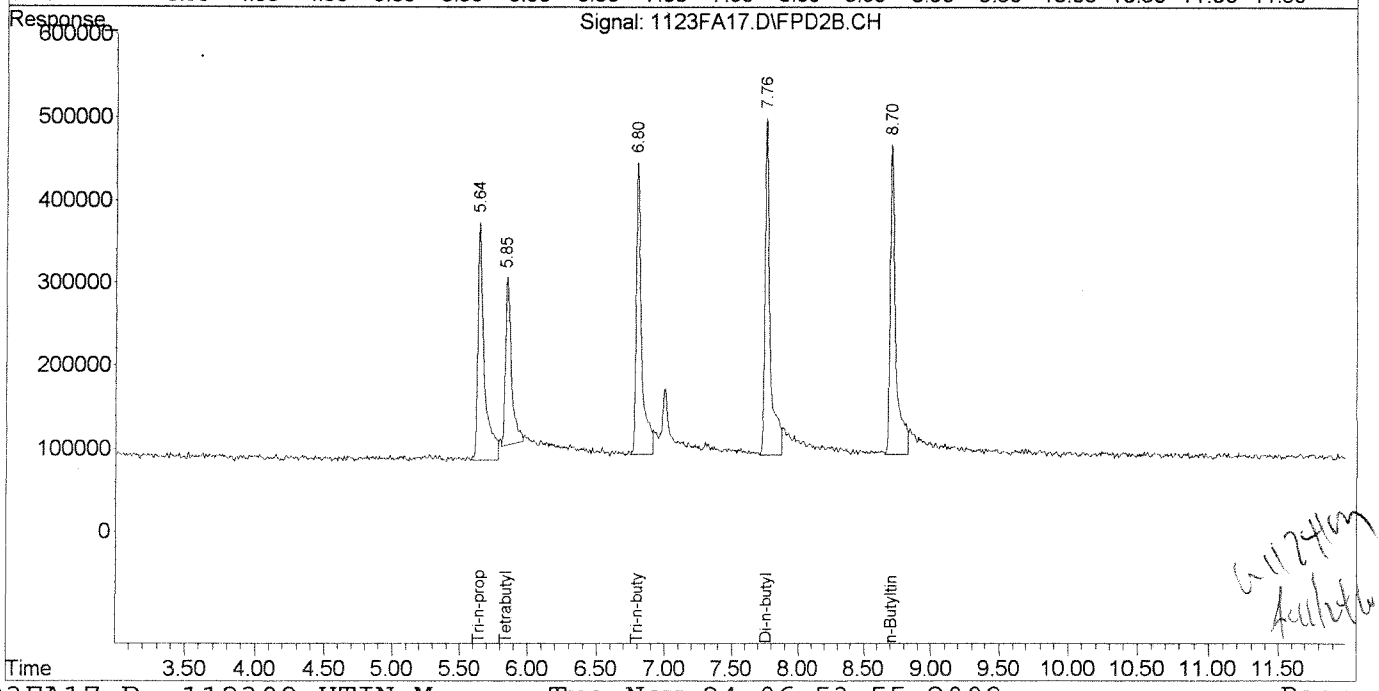
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA17.D\FPD1A.CH Vial: 81
Signal #2 : J:\GC26\DATA\112309\1123FA17.D\FPD2B.CH
Acq On : 23 Nov 2009 10:11 pm Operator: CCotnam
Sample : HTINS@ 50PPB OT4-27a Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:44 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA18.D\FPD1A.CH Vial: 82
Signal #2 : J:\GC26\DATA\112309\1123FA18.D\FPD2B.CH
Acq On : 23 Nov 2009 10:27 pm Operator: CCotnam
Sample : HTINS@ 200PPB OT4-26R Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:44:00 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.23f	5.64f	7141636	3633581	143.914	135.887
		Target Compounds						
2)		Tetrabutyltin	6.50	5.85f	5751147	2832385	134.262	116.356
3)		Tri-n-butyltin	7.51	6.80	7257535	4152012	123.407	127.277
4)		Di-n-butyltin	8.52	7.76	8350380	4593277	111.017	113.552
5)		n-Butyltin	9.51	8.71	7841295	4606655	91.615	95.392

11/27/09

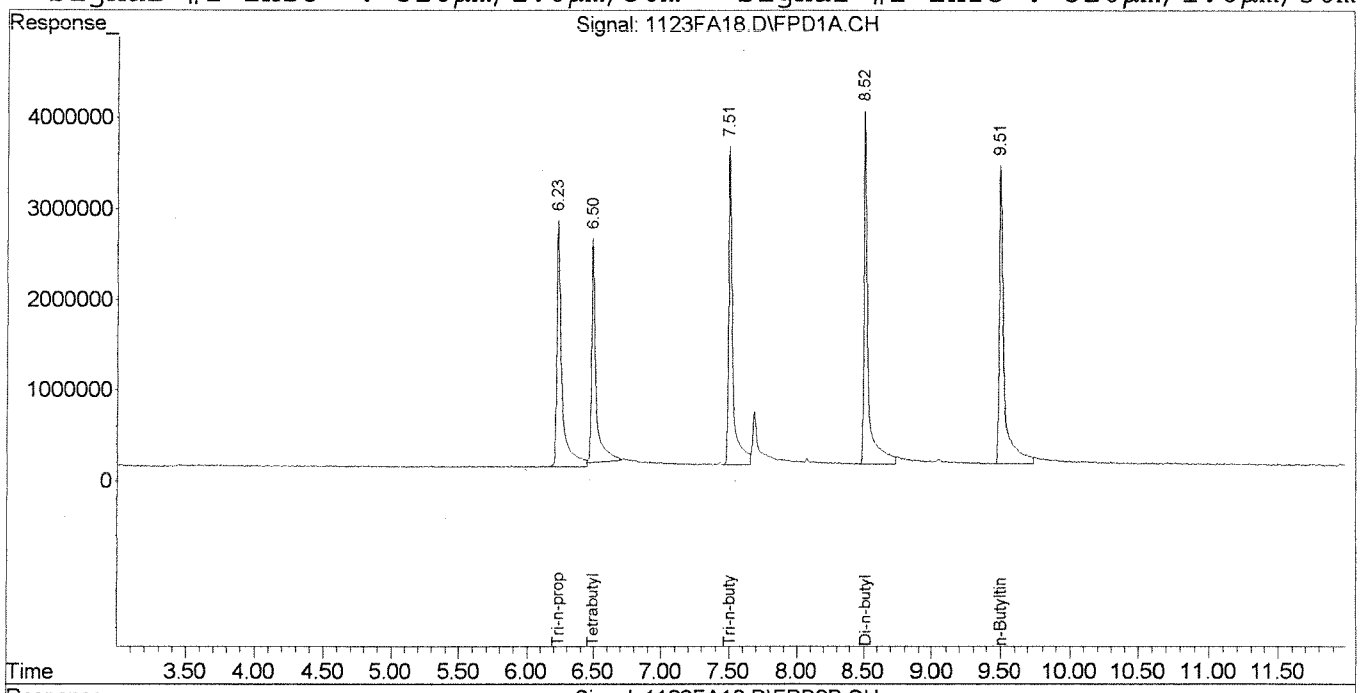
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

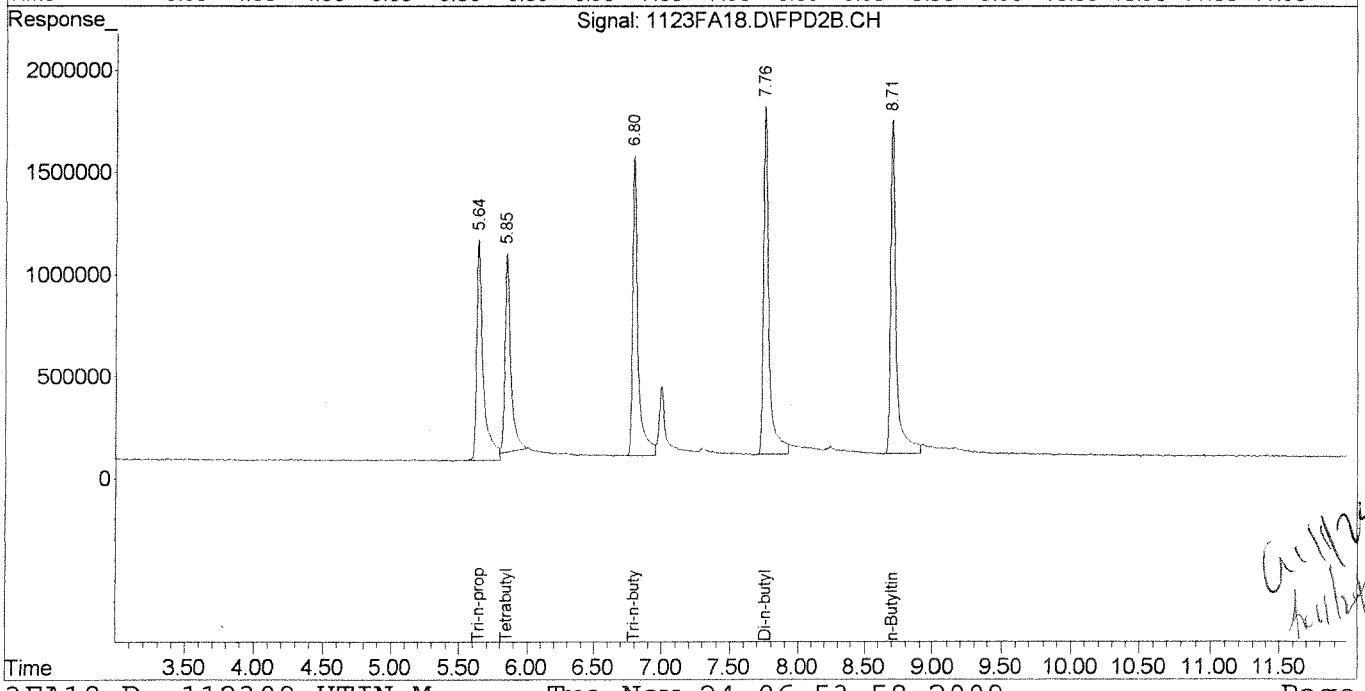
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA18.D\FPD1A.CH Vial: 82
Signal #2 : J:\GC26\DATA\112309\1123FA18.D\FPD2B.CH
Acq On : 23 Nov 2009 10:27 pm Operator: CCotnam
Sample : HTINS@ 200PPB OT4-26R Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:44 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA19.D\FPD1A.CH Vial: 83
Signal #2 : J:\GC26\DATA\112309\1123FA19.D\FPD2B.CH
Acq On : 23 Nov 2009 10:43 pm Operator: CCotnam
Sample : HTINS@ 500PPB OT4-26K Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:44:01 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.23f	5.64f	18378265	9820654	370.349	367.267
		Target Compounds						
2)		Tetrabutyltin	6.49f	5.85f	15950299	8706421	372.363	353.719
3)		Tri-n-butyltin	7.51	6.80	19051861	11455018	323.957	351.146
4)		Di-n-butyltin	8.51	7.76	23095115	13192130	307.047	326.127
5)		n-Butyltin	9.51	8.71	21468450	12384073	250.829	256.443

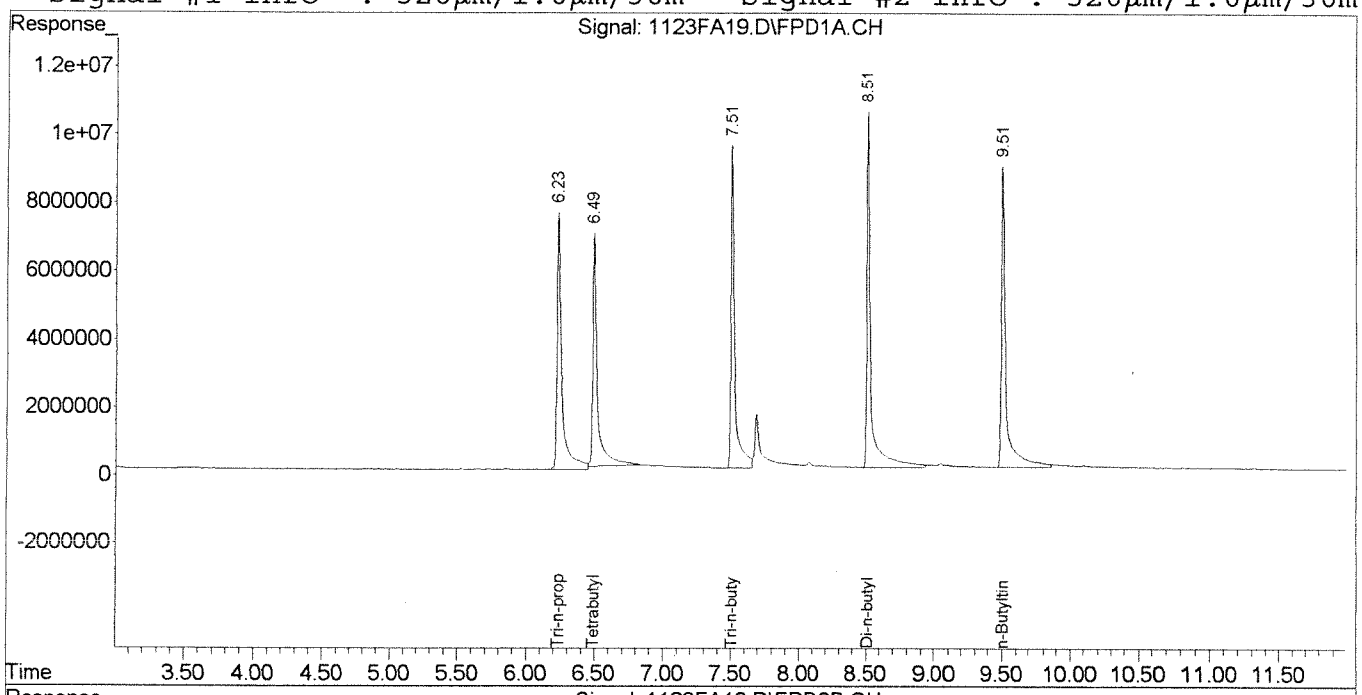
11/24/09
Acceptable

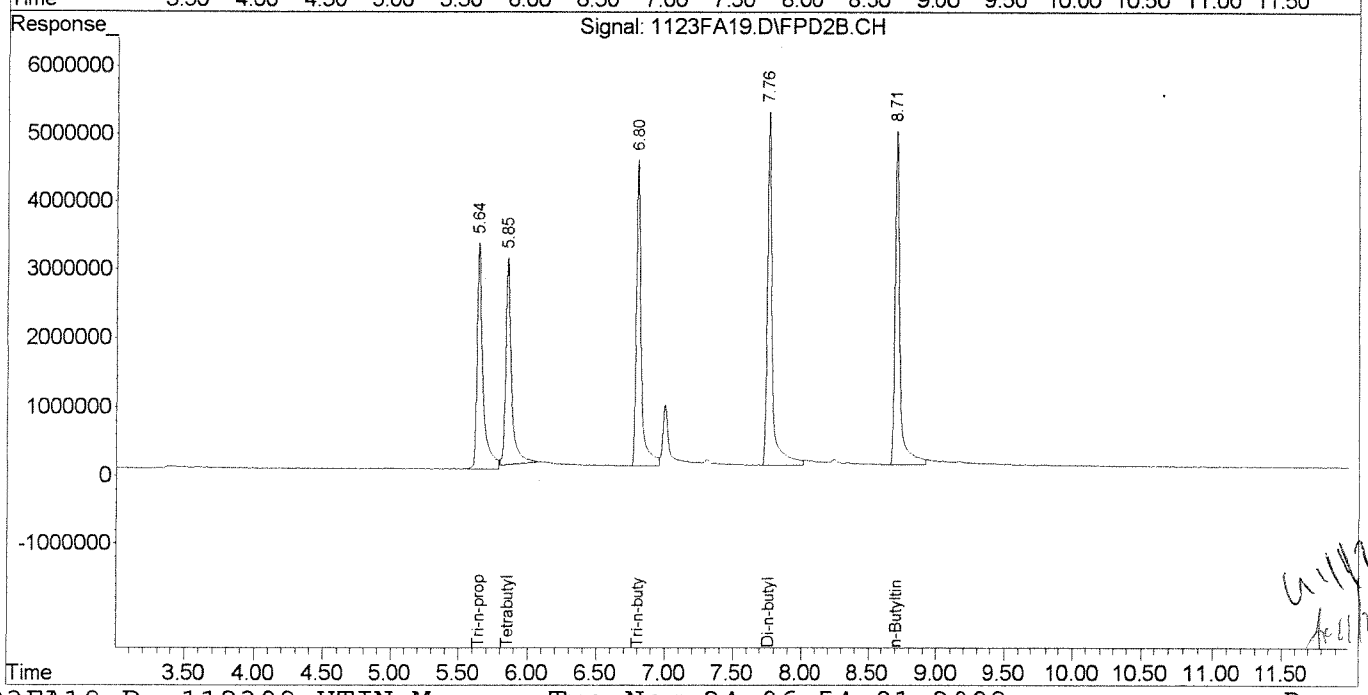
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309\1123FA19.D\FPD1A.CH Vial: 83
Signal #2 : J:\GC26\DATA\112309\1123FA19.D\FPD2B.CH
Acq On : 23 Nov 2009 10:43 pm Operator: CCotnam
Sample : HTINS@ 500PPB OT4-26K Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:44 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA20.D\FPD1A.CH Vial: 84
Signal #2 : J:\GC26\DATA\112309\1123FA20.D\FPD2B.CH
Acq On : 23 Nov 2009 10:59 pm Operator: CCotnam
Sample : HTINS@ 1000PPB OT4-26L Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 06:44:02 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	Tri-n-propyltin	6.23f	5.64f	37174914	22473861	749.129	840.465
		Target Compounds						
2)		Tetrabutyltin	6.49f	5.85f	36290050	19804767	847.199	789.891
3)		Tri-n-butyltin	7.51	6.80	37438344	24709729	636.600	757.460
4)		Di-n-butyltin	8.51	7.76	43837898	27767434	582.820	686.448
5)		n-Butyltin	9.51	8.71	44661907	26511836	521.812	548.993

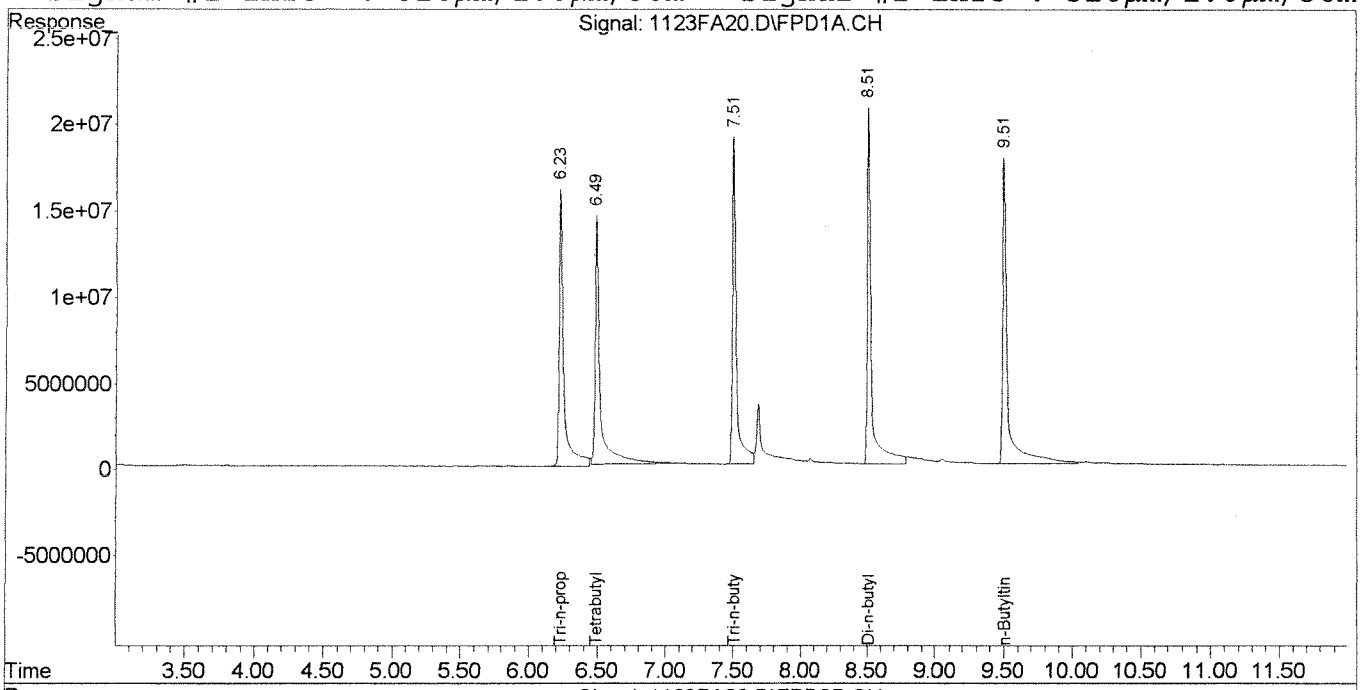
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

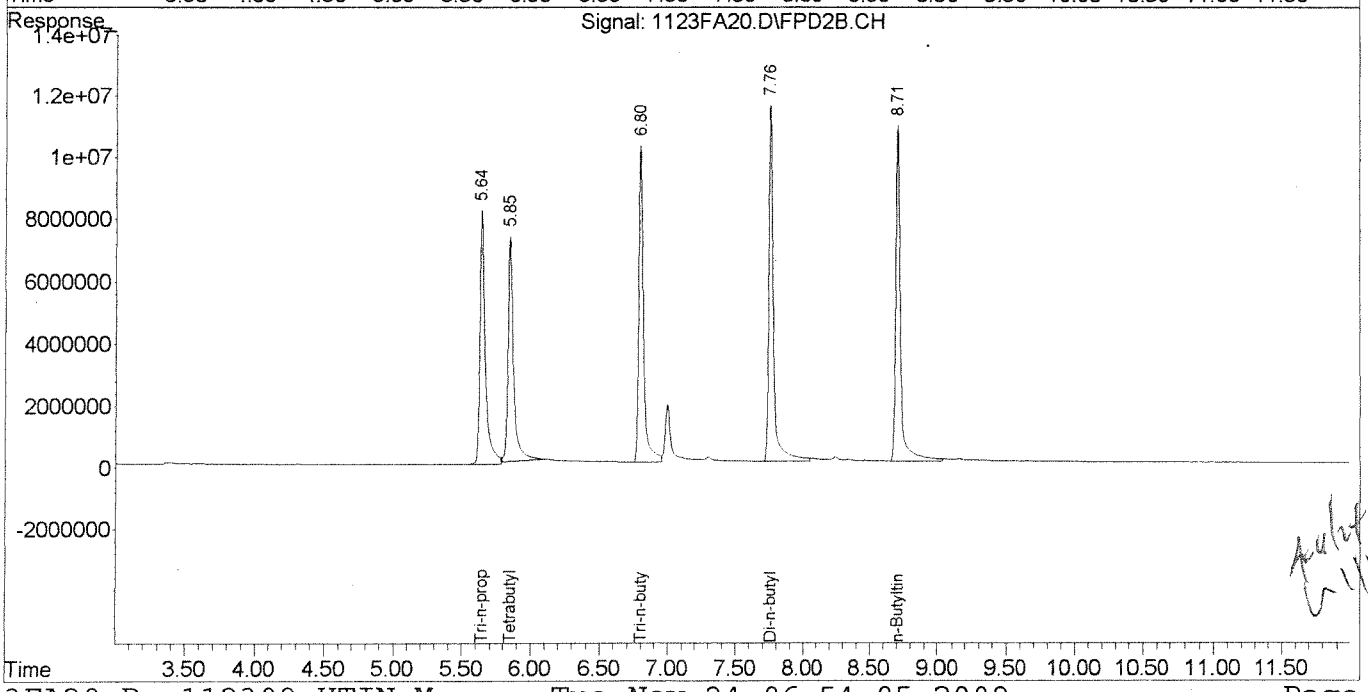
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA20.D\FPD1A.CH Vial: 84
Signal #2 : J:\GC26\DATA\112309\1123FA20.D\FPD2B.CH
Acq On : 23 Nov 2009 10:59 pm Operator: CCotnam
Sample : HTINS@ 1000PPB OT4-26L Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 6:44 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Thu Nov 12 08:39:50 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Audit 69
11/24/09

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309\1123FA21.D\FPD1A.CH Vial: 85
Signal #2 : J:\GC26\DATA\112309\1123FA21.D\FPD2B.CH
Acq On : 23 Nov 2009 11:16 pm Operator: CCotnam
Sample : HTINS @ 50PPB OT4-26E Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 07:23:41 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
	Target Compounds						
2)	Tetrabutyltin	6.50	5.85f	1560150	1073498	53.823	66.222
3)	Tri-n-butyltin	7.51	6.80	1636674	1147239	43.358	47.888
4)	Di-n-butyltin	8.51	7.76	1945661	1472630	38.089	45.335
5)	n-Butyltin	9.51	8.70	1844451	1390687	31.586	37.464

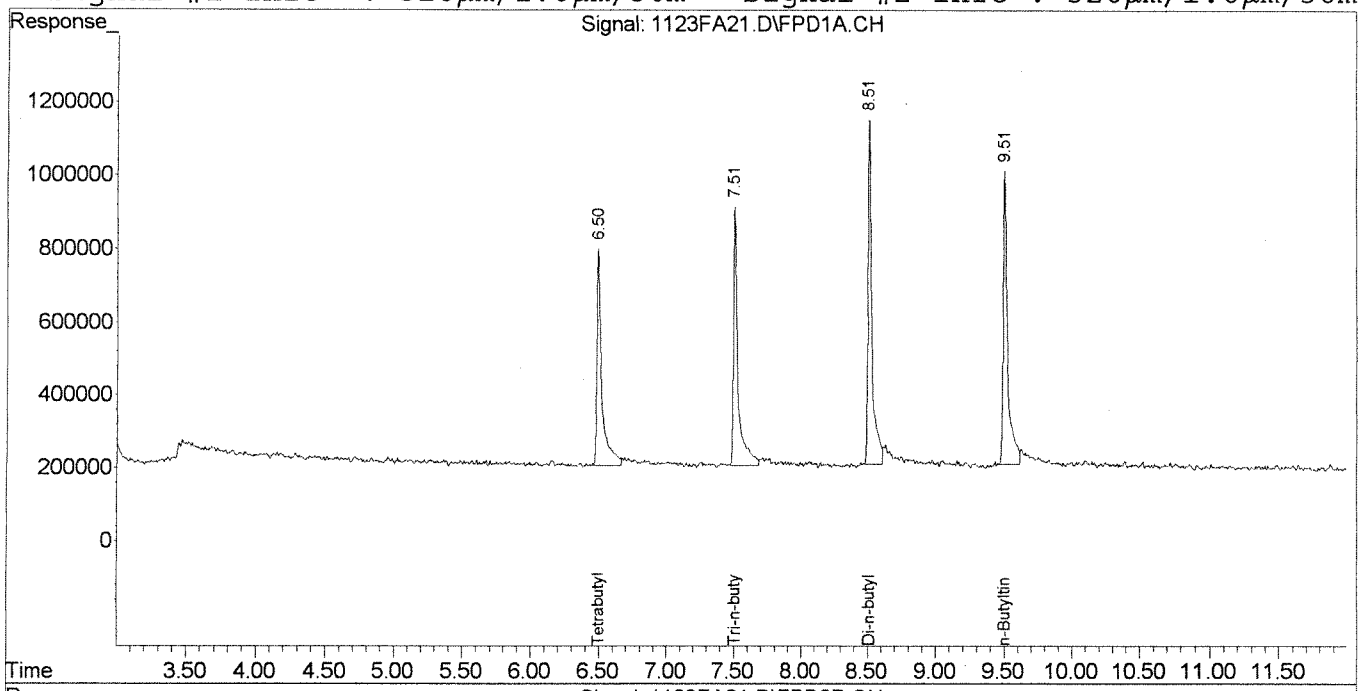
Reviewed 11/24/09

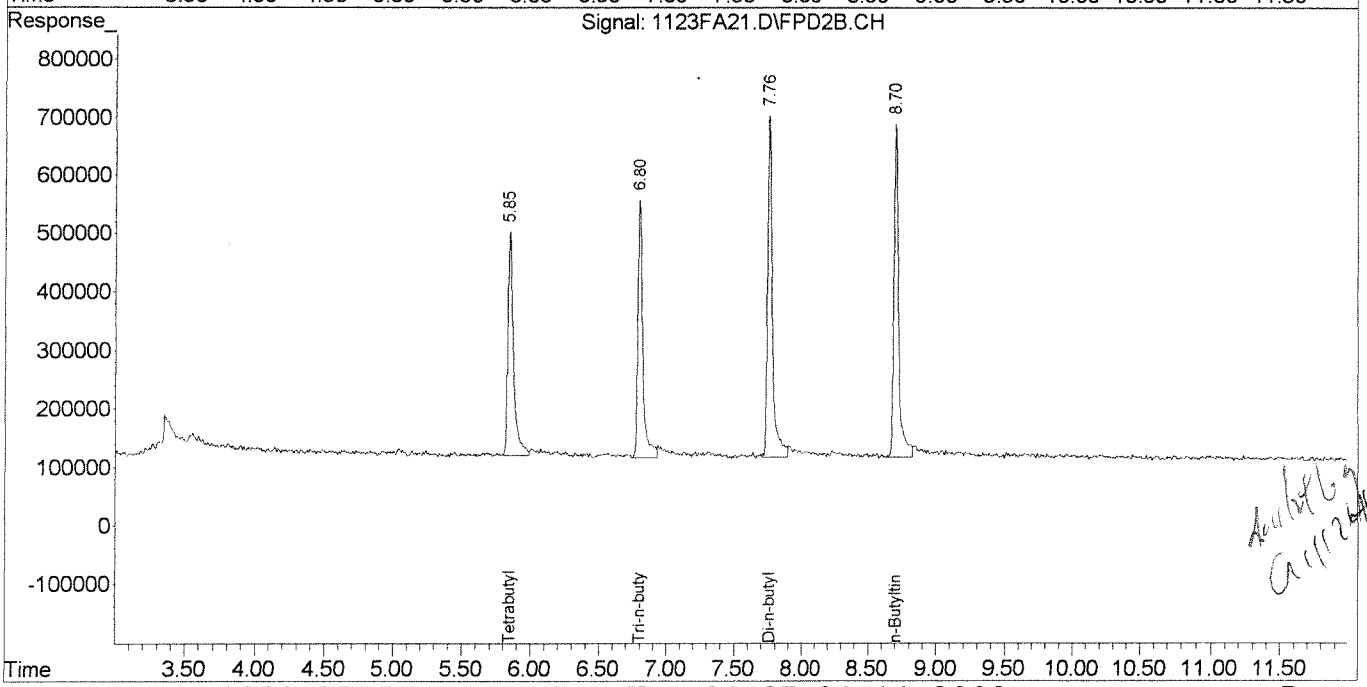
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309\1123FA21.D\FPD1A.CH Vial: 85
Signal #2 : J:\GC26\DATA\112309\1123FA21.D\FPD2B.CH
Acq On : 23 Nov 2009 11:16 pm Operator: CCotnam
Sample : HTINS @ 50PPB OT4-26E Inst : GC26
Misc : SEMIVOA GC\W0800304\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 7:23 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F003.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	42	29000	24200	-16	NA	± 25 %	AverageRF
Tri-n-butyltin	45	44	37700	37200	-2	NA	± 25 %	AverageRF
Di-n-butyltin	38	37	51100	49800	-2	NA	± 25 %	AverageRF
n-Butyltin	31	29	58400	54800	-6	NA	± 25 %	AverageRF
Tri-n-propyltin	50	47	32500	30800	-5	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F003.D\1123F003C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	38	16200	12400	-23	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	24000	22200	-7	NA	± 25 %	AverageRF
Di-n-butyltin	38	31	32500	25900	-20	NA	± 25 %	AverageRF
n-Butyltin	31	30	37100	35900	-3	NA	± 25 %	AverageRF
Tri-n-propyltin	50	46	20400	18600	-8	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Exception Report

Data File: J:\GC26\DATA\112309B\1123F003.D
Lab ID: KWG0911115-2
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 00:04
Date Quantitated: 11/24/2009 08:17
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: 11/24/09

Printed: 11/24/2009 09:20:46
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123F003.D\1123F003C.D
Lab ID: KWG0911115-2
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 00:04
Date Quantitated: 11/24/2009 08:17
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Printed: 11/24/2009 09:20:49
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F003.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F003.D\1123F003c.d			**Vial:**	3
Acqu Date:	11/24/2009 00:04	**Quant Date:**	11/24/2009 08:17	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-2				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.23	5.64	1540564	932205	47.35	45.75			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.49	5.85	1211343	620237	41.79	38.26			
Tri-n-butyltin	7.51	6.80	1656340	989662	43.88	41.31			
Di-n-butyltin	8.51	7.76	1909036	994010	37.37	30.60			
n-Butyltin	9.50	8.70	1708026	1117258	29.25	30.10			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112309B\1123F003.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		3.3E+4	3.1E+4	-5.3			
Tetra-n-butyltin		MS	AverageRF	25		2.9E+4	2.4E+4	-16.4			
Tri-n-butyltin		MS	AverageRF	25		3.8E+4	3.7E+4	-1.5			
Di-n-butyltin		MS	AverageRF	25		5.1E+4	5.0E+4	-2.5			
n-Butyltin		MS	AverageRF	25		5.8E+4	5.5E+4	-6.1			

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112309B\1123F003.D\1123F003C.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		2.0E+4	1.9E+4	-8.5			
Tetra-n-butyltin		MS	AverageRF	25		1.6E+4	1.2E+4	-23.5			
Tri-n-butyltin		MS	AverageRF	25		2.4E+4	2.2E+4	-7.3			
Di-n-butyltin		MS	AverageRF	25		3.2E+4	2.6E+4	-20.2			
n-Butyltin		MS	AverageRF	25		3.7E+4	3.6E+4	-3.4			

Signal #1 : J:\GC26\DATA\112309B\1123F003.D\FPD1A.CH Vial: 3
Signal #2 : J:\GC26\DATA\112309B\1123F003.D\FPD2B.CH
Acq On : 24 Nov 2009 12:04 am Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911115-2 Inst : GC26
Misc : SEMIVOA GC\W0911115\2-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:49 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

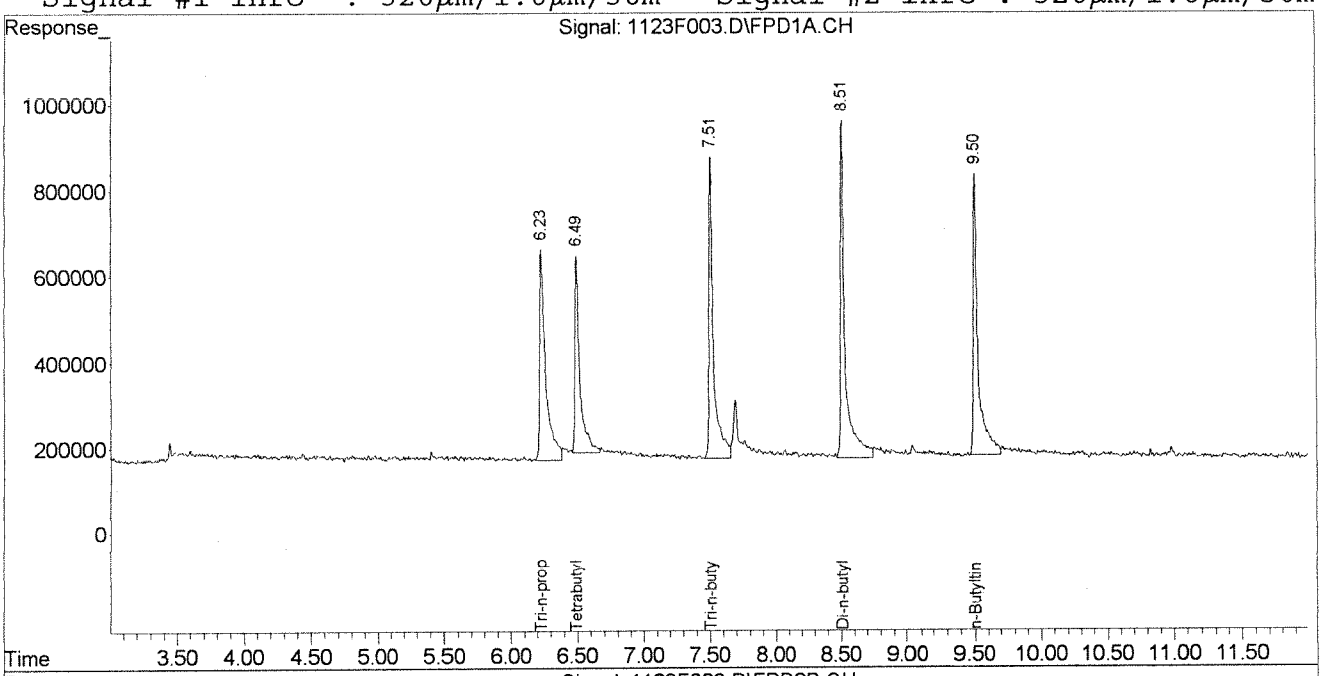
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.23f	5.64f	1540564	932205	47.354	45.752
	Target Compounds						
2)	Tetrabutyltin	6.49f	5.85f	1211343	620237	41.790	38.261
3)	Tri-n-butyltin	7.51	6.80	1656340	989662	43.879	41.310
4)	Di-n-butyltin	8.51	7.76	1909036	994010	37.372	30.600
5)	n-Butyltin	9.50	8.70	1708026	1117258	29.249	30.098

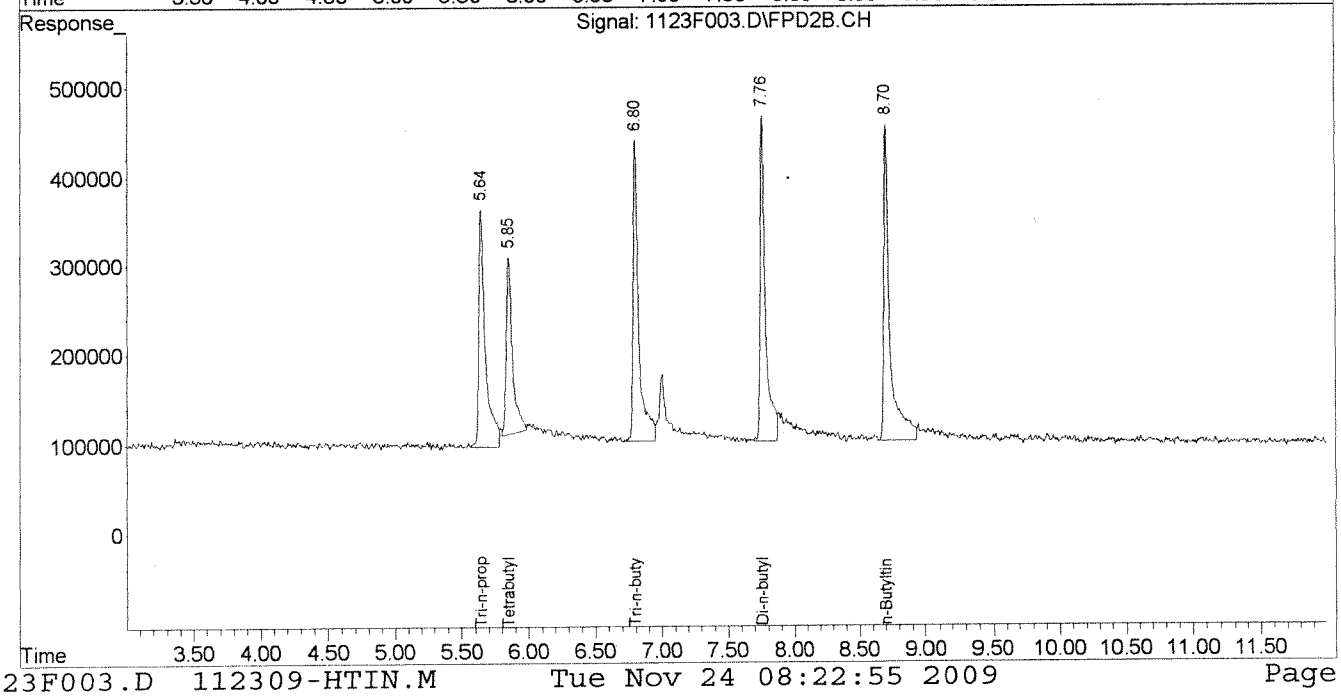
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
1123F003.D 112309-HTIN.M Tue Nov 24 08:22:54 2009 Page 1

Signal #1 : J:\GC26\DATA\112309B\1123F003.D\FPD1A.CH Vial: 3
Signal #2 : J:\GC26\DATA\112309B\1123F003.D\FPD2B.CH
Acq On : 24 Nov 2009 12:04 am Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911115-2 Inst : GC26
Misc : SEMIVOA GC\W0911115\2-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:17 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911115
Units: ng/mL

File ID: J:\GC26\DATA\112309B\1123F017.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	38	29000	22300	-23	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	37700	34900	-8	NA	± 25 %	AverageRF
Di-n-butyltin	38	32	51100	43000	-16	NA	± 25 %	AverageRF
n-Butyltin	31	29	58400	55200	-6	NA	± 25 %	AverageRF
Tri-n-propyltin	50	44	32500	28700	-12	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Analyzed:**	11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type:	External Standard	**Calibration Date:**	11/23/2009
Analysis Method:	Krone	**Calibration ID:**	CAL9045
CCV Standard ID:	OT4-27A	**Analysis Lot:**	KWG0911115
		Units:	ng/mL
File ID:	J:\GC26\DATA\112309B\1123F017.D\1123F017C.D	**Column ID:**	RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	37	16200	12100	-25 *	NA	± 25 %	AverageRF
Tri-n-butyltin	45	42	24000	22400	-7	NA	± 25 %	AverageRF
Di-n-butyltin	38	36	32500	30400	-7	NA	± 25 %	AverageRF
n-Butyltin	31	31	37100	36400	-2	NA	± 25 %	AverageRF
Tri-n-propyltin	50	41	20400	16800	-17	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Exception Report

Data File: J:\GC26\DATA\112309B\1123F017.D
Lab ID: KWG0911115-4
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 04:24
Date Quantitated: 11/24/2009 08:18
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 11/24/2009

Printed: 11/24/2009 09:21:52
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	J:\GC26\DATA\112309B\1123F017.D\1123F017C.D	**Date Acquired:**	11/24/2009 04:24
Lab ID:	KWG0911115-4	**Date Quantitated:**	11/24/2009 08:18
RunType:	CCV	**Batch ID:**	KWG0911115
Matrix:	MISC	**Analysis Method:**	Krone
		MethodJoinID:	MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: 11/24/09

Secondary Review: 11/27/09

Printed: 11/24/2009 09:21:55

u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F017.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F017.D\1123F017c.d			**Vial:**	3
Acqu Date:	11/24/2009 04:24	**Quant Date:**	11/24/2009 08:18	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-4				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.64	1435308	841560	44.12	41.30			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50	5.85	1112539	607155	38.38	37.45			
Tri-n-butyltin	7.51	6.80	1553604	997596	41.16	41.64			
Di-n-butyltin	8.52	7.76	1646810	1163418	32.24	35.82			
n-Butyltin	9.51	8.71	1718718	1132479	29.43	30.51			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112309B\1123F017.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		3.3E+4	2.9E+4	-11.8			
Tetra-n-butyltin		MS	AverageRF	25		2.9E+4	2.2E+4	-23.2			
Tri-n-butyltin		MS	AverageRF	25		3.8E+4	3.5E+4	-7.6			
Di-n-butyltin		MS	AverageRF	25		5.1E+4	4.3E+4	-15.9			
n-Butyltin		MS	AverageRF	25		5.8E+4	5.5E+4	-5.5			

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112309B\1123F017.D\1123F017C.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		2.0E+4	1.7E+4	-17.4			
Tetra-n-butyltin		MS	AverageRF	25		1.6E+4	1.2E+4	-25.1 *			
Tri-n-butyltin		MS	AverageRF	25		2.4E+4	2.2E+4	-6.5			
Di-n-butyltin		MS	AverageRF	25		3.2E+4	3.0E+4	-6.5			
n-Butyltin		MS	AverageRF	25		3.7E+4	3.6E+4	-2.1			

1 Compounds Failed CCV Criteria

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112309B\1123F017.D\FPD1A.CH Vial: 3
Signal #2 : J:\GC26\DATA\112309B\1123F017.D\FPD2B.CH
Acq On : 24 Nov 2009 4:24 am Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911115-4 Inst : GC26
Misc : SEMIVOA GC\W0911115\4-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:03 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

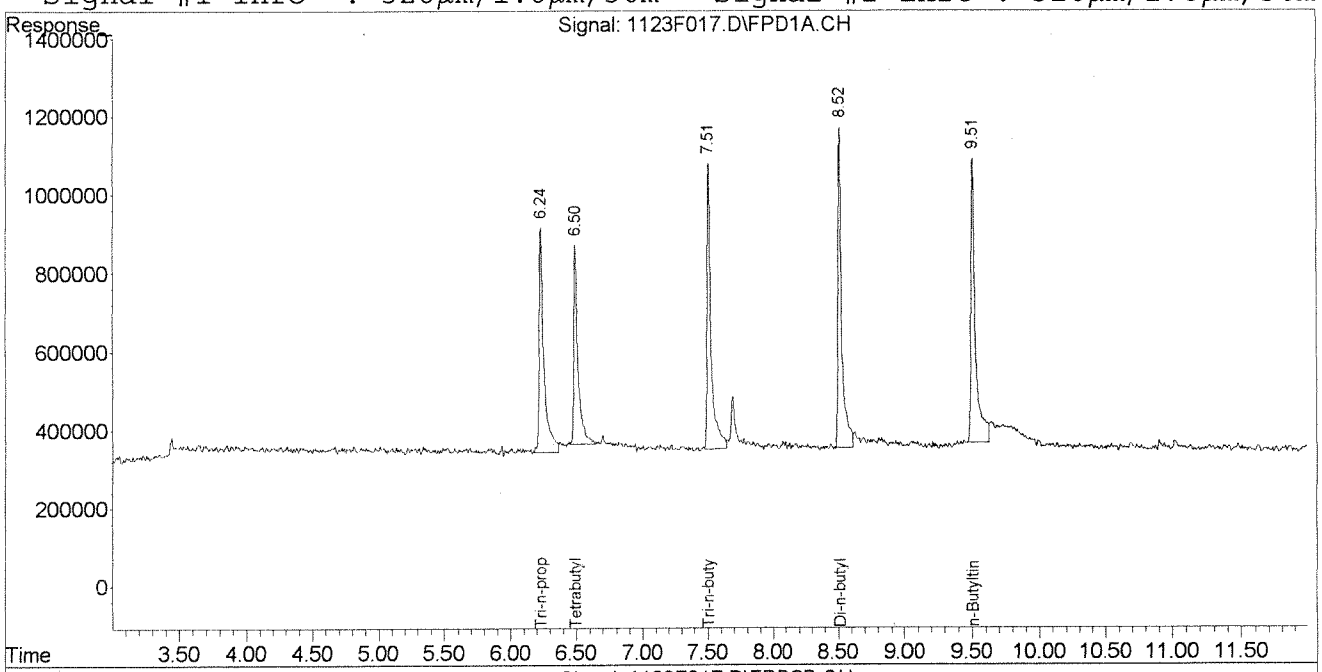
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.24	5.64f	1435308	841560	44.119	41.303
	Target Compounds						
2)	Tetrabutyltin	6.50	5.85	1112539	607155	38.381	37.454
3)	Tri-n-butyltin	7.51	6.80	1553604	997596	41.157	41.641
4)	Di-n-butyltin	8.52	7.76	1646810	1163418	32.239	35.816
5)	n-Butyltin	9.51	8.71	1718718	1132479	29.432	30.508

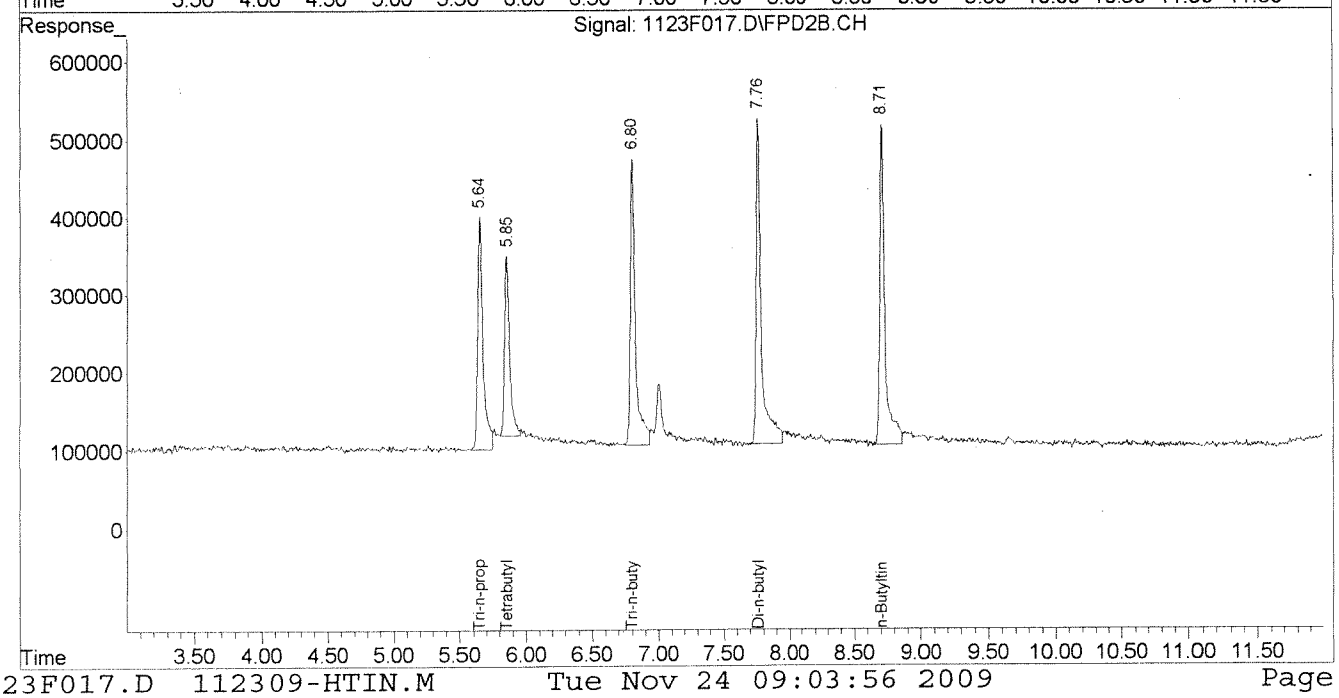
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F017.D\FPD1A.CH Vial: 3
Signal #2 : J:\GC26\DATA\112309B\1123F017.D\FPD2B.CH
Acq On : 24 Nov 2009 4:24 am Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911115-4 Inst : GC26
Misc : SEMIVOA GC\W0911115\4-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:18 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Analyzed:**	11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type:	External Standard	**Calibration Date:**	11/23/2009
Analysis Method:	Krone	**Calibration ID:**	CAL9045
CCV Standard ID:	OT4-27A	**Analysis Lot:**	KWG0911115
		Units:	ng/mL
File ID:	J:\GC26\DATA\112309B\1123F029.D	**Column ID:**	RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	42	29000	24500	-15	NA	± 25 %	AverageRF
Tri-n-butyltin	45	43	37700	36700	-3	NA	± 25 %	AverageRF
Di-n-butyltin	38	36	51100	47600	-7	NA	± 25 %	AverageRF
n-Butyltin	31	29	58400	54400	-7	NA	± 25 %	AverageRF
Tri-n-propyltin	50	46	32500	30200	-7	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Analyzed:**	11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type:	External Standard	**Calibration Date:**	11/23/2009
Analysis Method:	Krone	**Calibration ID:**	CAL9045
CCV Standard ID:	OT4-27A	**Analysis Lot:**	KWG0911115
		Units:	ng/mL
File ID:	J:\GC26\DATA\112309B\1123F029.D\1123F029C.D	**Column ID:**	RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	43	16200	14000	-14	NA	± 25 %	AverageRF
Tri-n-butyltin	45	36	24000	19200	-20	NA	± 25 %	AverageRF
Di-n-butyltin	38	34	32500	28500	-12	NA	± 25 %	AverageRF
n-Butyltin	31	28	37100	33000	-11	NA	± 25 %	AverageRF
Tri-n-propyltin	50	45	20400	18400	-10	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Exception Report

Data File: J:\GC26\DATA\112309B\1123F029.D
Lab ID: KWG0911115-6
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 08:27
Date Quantitated: 11/24/2009 08:57
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/27/09

Secondary Review: 12/4/09

Printed: 11/24/2009 09:22:46
u:\Stealth\Crystal rpt\except2.rpt

Data File:	J:\GC26\DATA\112309B\1123F029.D\1123F029C.D	**Date Acquired:**	11/24/2009 08:27
Lab ID:	KWG0911115-6	**Date Quantitated:**	11/24/2009 08:57
RunType:	CCV	**Batch ID:**	KWG0911115
Matrix:	MISC	**Analysis Method:**	Krone
		MethodJoinID:	MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [signature]

Secondary Review: [signature]

Printed: 11/24/2009 09:22:49

u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F029.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F029.D\1123F029c.d			**Vial:**	6
Acqu Date:	11/24/2009 08:27	**Quant Date:**	11/24/2009 08:57	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-6				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	1510545	918800	46.43	45.09			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50	5.85	1226340	698764	42.31	43.11			
Tri-n-butyltin	7.51	6.80	1634254	854060	43.29	35.65			
Di-n-butyltin	8.52	7.76	1822795	1090662	35.68	33.58			
n-Butyltin	9.51	8.71	1694790	1028573	29.02	27.71			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112309B\1123F029.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		3.3E+4	3.0E+4	-7.1			
Tetra-n-butyltin		MS	AverageRF	25		2.9E+4	2.5E+4	-15.4			
Tri-n-butyltin		MS	AverageRF	25		3.8E+4	3.7E+4	-2.8			
Di-n-butyltin		MS	AverageRF	25		5.1E+4	4.8E+4	-6.9			
n-Butyltin		MS	AverageRF	25		5.8E+4	5.4E+4	-6.8			

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112309B\1123F029.D\1123F029C.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		2.0E+4	1.8E+4	-9.8			
Tetra-n-butyltin		MS	AverageRF	25		1.6E+4	1.4E+4	-13.8			
Tri-n-butyltin		MS	AverageRF	25		2.4E+4	1.9E+4	-20.0			
Di-n-butyltin		MS	AverageRF	25		3.2E+4	2.8E+4	-12.4			
n-Butyltin		MS	AverageRF	25		3.7E+4	3.3E+4	-11.0			

Signal #1 : J:\GC26\DATA\112309B\1123F029.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112309B\1123F029.D\FPD2B.CH
Acq On : 24 Nov 2009 8:27 am Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911115-6 Inst : GC26
Misc : SEMIVOA GC\W0911115\6-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:57:01 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

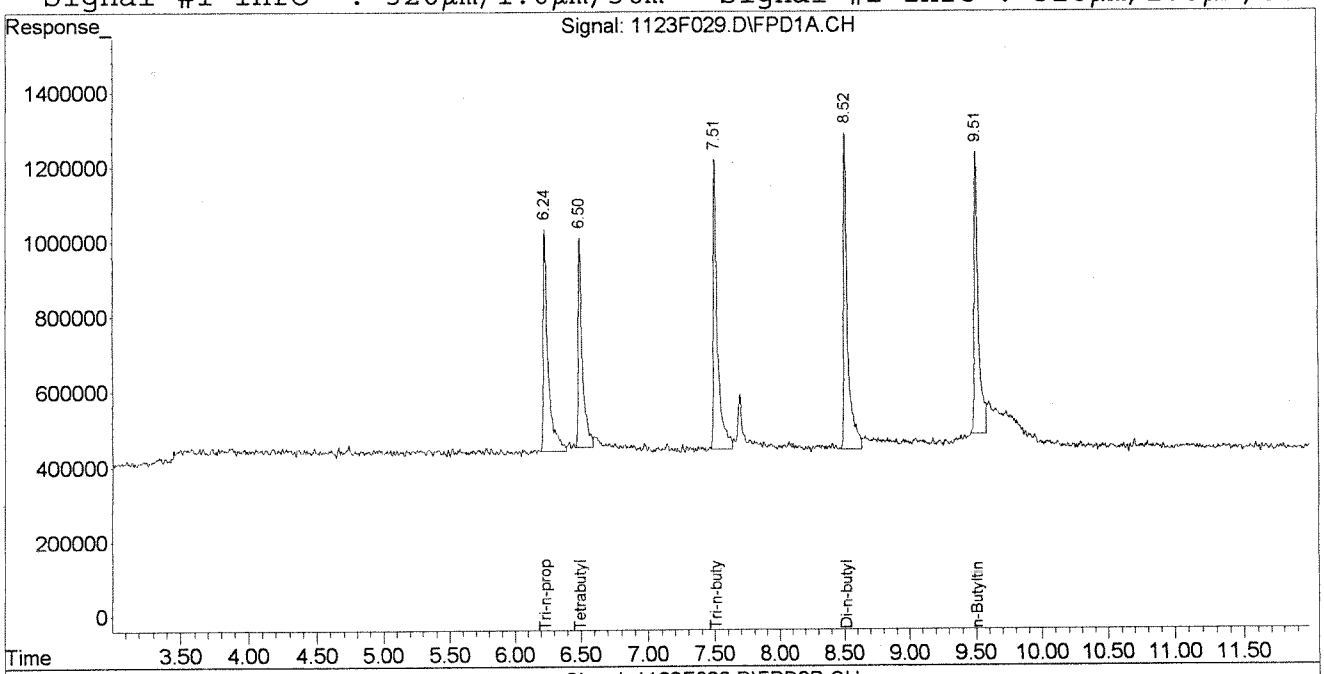
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.24	5.65f	1510545	918800	46.432	45.094
	Target Compounds						
2)	Tetrabutyltin	6.50	5.85	1226340	698764	42.307	43.105
3)	Tri-n-butyltin	7.51	6.80	1634254	854060	43.294	35.650
4)	Di-n-butyltin	8.52	7.76	1822795	1090662	35.684	33.576
5)	n-Butyltin	9.51	8.71	1694790	1028573	29.023	27.709

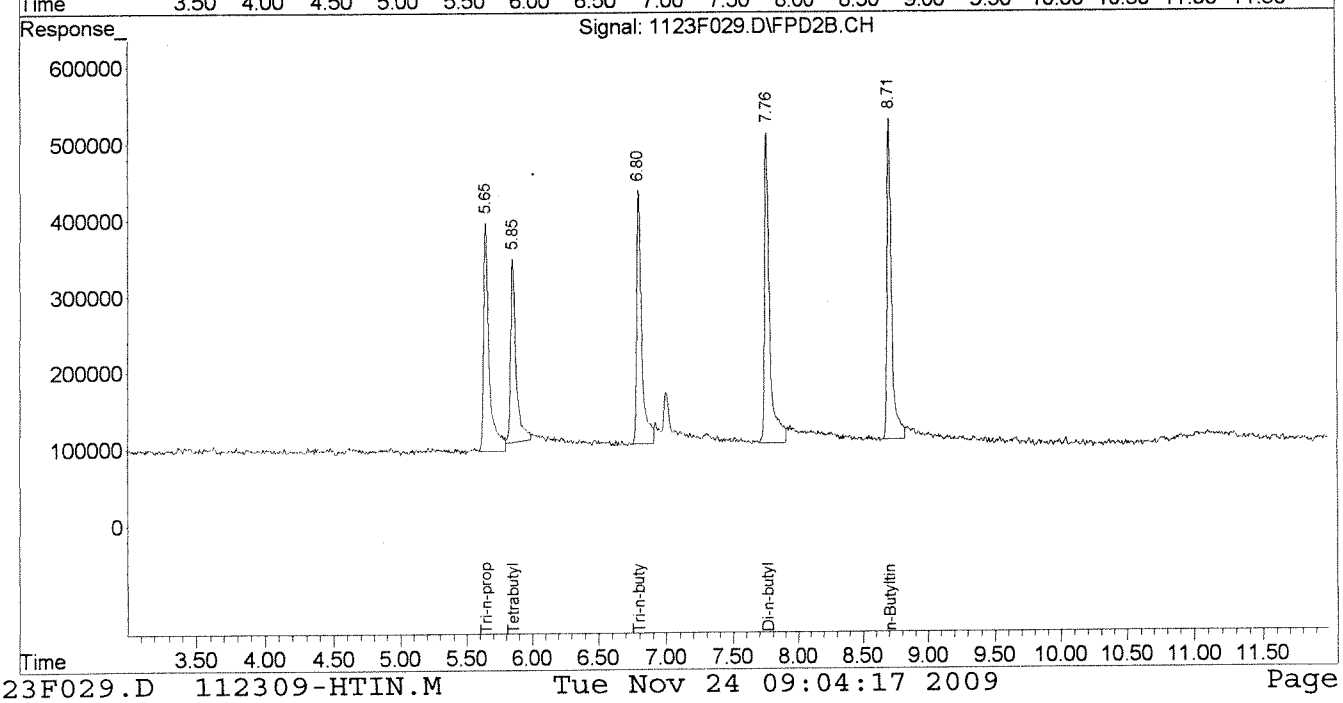
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
1123F029.D 112309-HTIN.M Tue Nov 24 09:04:17 2009 Page 1

Signal #1 : J:\GC26\DATA\112309B\1123F029.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112309B\1123F029.D\FPD2B.CH
Acq On : 24 Nov 2009 8:27 am Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911115-6 Inst : GC26
Misc : SEMIVOA GC\W0911115\6-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:57 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Analyzed:**	11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type:	External Standard	**Calibration Date:**	11/23/2009
Analysis Method:	Krone	**Calibration ID:**	CAL9045
CCV Standard ID:	OT4-27A	**Analysis Lot:**	KWG0911153
		Units:	ng/mL
File ID:	J:\GC26\DATA\112409A\1124F028.D	**Column ID:**	RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	41	29000	23600	-19	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	37700	34700	-8	NA	± 25 %	AverageRF
Di-n-butyltin	38	32	51100	43300	-15	NA	± 25 %	AverageRF
n-Butyltin	31	31	58400	57400	-2	NA	± 25 %	AverageRF
Tri-n-propyltin	50	46	32500	29700	-9	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone
CCV Standard ID: OT4-27A

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL

File ID: J:\GC26\DATA\112409A\1124F028.D\1124F028C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	45	16200	14500	-11	NA	± 25 %	AverageRF
Tri-n-butyltin	45	43	24000	23400	-3	NA	± 25 %	AverageRF
Di-n-butyltin	38	35	32500	30100	-7	NA	± 25 %	AverageRF
n-Butyltin	31	31	37100	37000	0	NA	± 25 %	AverageRF
Tri-n-propyltin	50	45	20400	18500	-9	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Exception Report

Data File: J:\GC26\DATA\112409A\1124F028.D
Lab ID: KWG0911153-6
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 18:31
Date Quantitated: 11/25/2009 08:26
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/25/09

Secondary Review: 11/25/09

Exception Report

Data File: J:\GC26\DATA\112409A\1124F028.D\1124F028C.D
Lab ID: KWG0911153-6
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 18:31
Date Quantitated: 11/25/2009 08:26
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/24/2009

Analysis Lot:	KWG0911153	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112409A\1124F028.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F028.D\1124F028c.d			**Vial:**	6
Acqu Date:	11/24/2009 18:31	**Quant Date:**	11/25/2009 08:26	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911153-6				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	1483150	925879	45.59	45.44			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50	5.86	1179736	724921	40.70	44.72			
Tri-n-butyltin	7.51	6.81	1547002	1040419	40.98	43.43			
Di-n-butyltin	8.52	7.77	1658485	1151735	32.47	35.46			
n-Butyltin	9.51	8.71	1787249	1151560	30.61	31.02			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133

DataFile: J:\GC26\DATA\112409A\1124F028.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		3.3E+4	3.0E+4	-8.8			
Tetra-n-butyltin		MS	AverageRF	25		2.9E+4	2.4E+4	-18.6			
Tri-n-butyltin		MS	AverageRF	25		3.8E+4	3.5E+4	-8.0			
Di-n-butyltin		MS	AverageRF	25		5.1E+4	4.3E+4	-15.3			
n-Butyltin		MS	AverageRF	25		5.8E+4	5.7E+4	-1.7			

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112409A\1124F028.D\1124F028C.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		2.0E+4	1.9E+4	-9.1			
Tetra-n-butyltin		MS	AverageRF	25		1.6E+4	1.4E+4	-10.6			
Tri-n-butyltin		MS	AverageRF	25		2.4E+4	2.3E+4	-2.5			
Di-n-butyltin		MS	AverageRF	25		3.2E+4	3.0E+4	-7.5			
n-Butyltin		MS	AverageRF	25		3.7E+4	3.7E+4	-0.4			

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F028.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112409A\1124F028.D\FPD2B.CH
Acq On : 24 Nov 2009 6:31 pm Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911153-6 Inst : GC26
Misc : SEMIVOA GC\W0911153\6-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:26:58 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tri-n-propyltin	6.24	5.65f	1483150	925879	45.590	45.441
	Target Compounds						
2)	Tetrabutyltin	6.50	5.86	1179736	724921	40.700	44.719
3)	Tri-n-butyltin	7.51	6.81	1547002	1040419	40.982	43.429
4)	Di-n-butyltin	8.52	7.77	1658485	1151735	32.467	35.456
5)	n-Butyltin	9.51	8.71	1787249	1151560	30.606	31.022

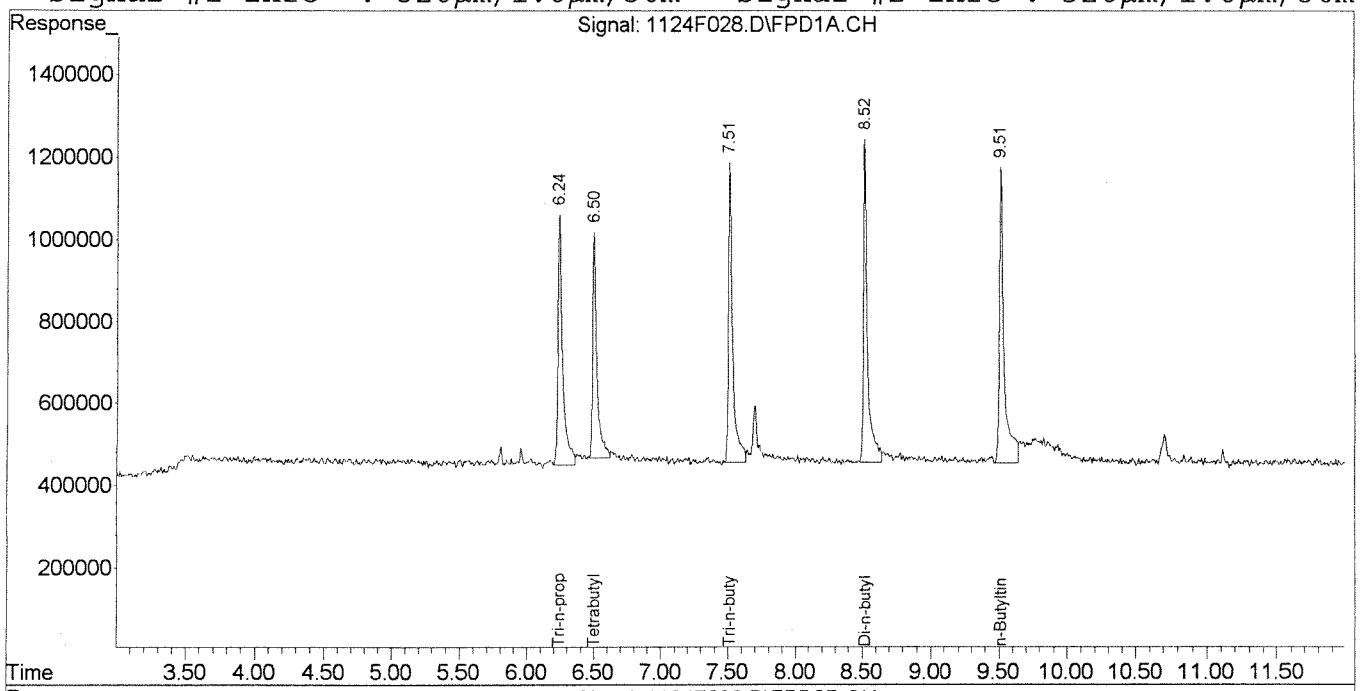
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

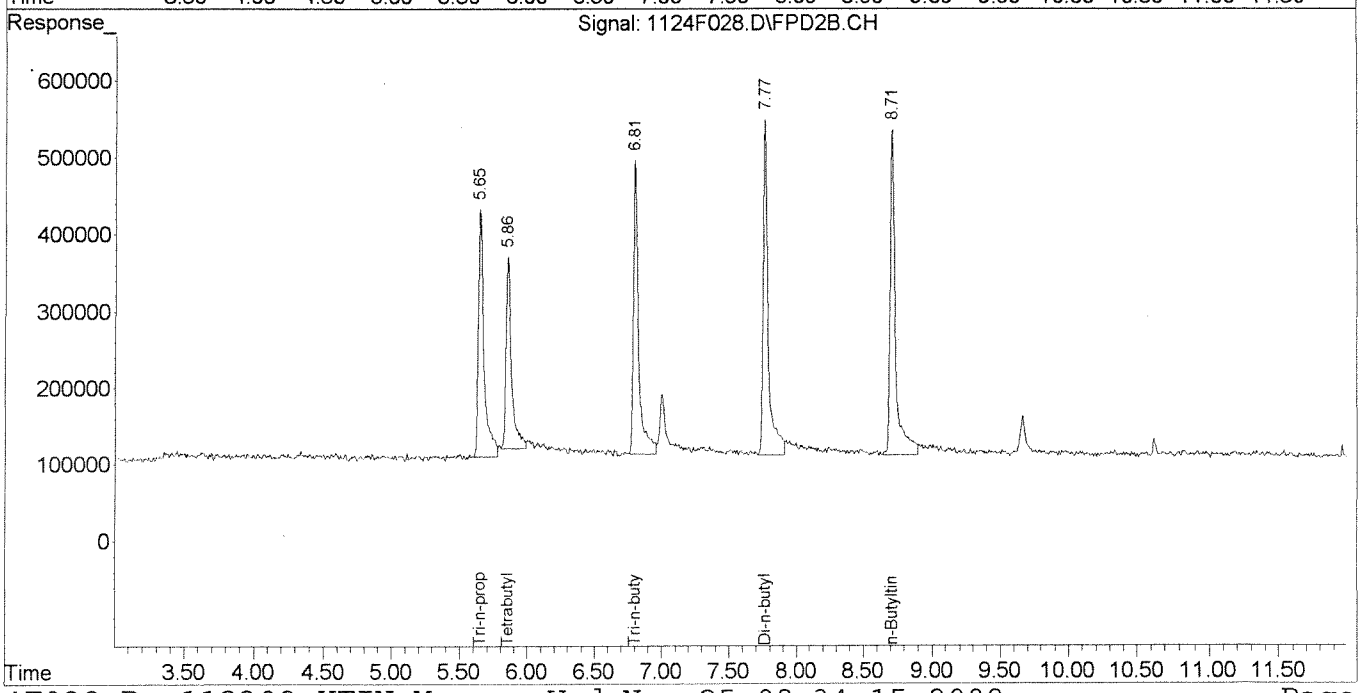
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F028.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112409A\1124F028.D\FPD2B.CH
Acq On : 24 Nov 2009 6:31 pm Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911153-6 Inst : GC26
Misc : SEMIVOA GC\W0911153\6-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:26 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL

File ID: J:\GC26\DATA\112409A\1124F038.D

Column ID: RTX-1

Analyte Name	Expected	Result	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	36	29000	21100	-27	*	NA	± 25 %	AverageRF
Tri-n-butyltin	45	37	37700	31300	-17		NA	± 25 %	AverageRF
Di-n-butyltin	38	29	51100	39300	-23		NA	± 25 %	AverageRF
n-Butyltin	31	24	58400	45300	-22		NA	± 25 %	AverageRF
Tri-n-propyltin	50	40	32500	25800	-21		NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sediment/09.58.02.41

Service Request: K0911038
Date Analyzed: 11/24/2009

Continuing Calibration Verification Summary
Butyltins (as cation)

Calibration Type: External Standard
Analysis Method: Krone

Calibration Date: 11/23/2009
Calibration ID: CAL9045
Analysis Lot: KWG0911153
Units: ng/mL

File ID: J:\GC26\DATA\112409A\1124F038.D\1124F038C.D

Column ID: RTX-35

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetra-n-butyltin	50	47	16200	15400	-5	NA	± 25 %	AverageRF
Tri-n-butyltin	45	41	24000	22000	-8	NA	± 25 %	AverageRF
Di-n-butyltin	38	33	32500	27600	-15	NA	± 25 %	AverageRF
n-Butyltin	31	27	37100	32200	-13	NA	± 25 %	AverageRF
Tri-n-propyltin	50	44	20400	18100	-11	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Exception Report

Data File: J:\GC26\DATA\112409A\1124F038.D
Lab ID: KWG0911153-8
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 21:25
Date Quantitated: 11/25/2009 08:29
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Exception Report

Data File: J:\GC26\DATA\112409A\1124F038.D\1124F038C.D
Lab ID: KWG0911153-8
RunType: CCV
Matrix: MISC

Date Acquired: 11/24/2009 21:25
Date Quantitated: 11/25/2009 08:29
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/24/2009

Analysis Lot:	KWG0911153	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112409A\1124F038.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F038.D\1124F038c.d			**Vial:**	6
Acqu Date:	11/24/2009 21:25	**Quant Date:**	11/25/2009 08:29	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911153-8				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	6.24	5.65	1292190	906125	39.72	44.47			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin	6.50	5.86	1054303	767507	36.37	47.35			
Tri-n-butyltin	7.52	6.81	1394224	980003	36.94	40.91			
Di-n-butyltin	8.52	7.77	1504635m	1058510	29.46	32.59			
n-Butyltin	9.52	8.71	1412605	1002744	24.19	27.01			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133
DataFile: J:\GC26\DATA\112409A\1124F038.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		3.3E+4	2.6E+4	-20.6			
Tetra-n-butyltin		MS	AverageRF	25		2.9E+4	2.1E+4	-27.3 *			
Tri-n-butyltin		MS	AverageRF	25		3.8E+4	3.1E+4	-17.1			
Di-n-butyltin		MS	AverageRF	25		5.1E+4	3.9E+4	-23.1			
n-Butyltin		MS	AverageRF	25		5.8E+4	4.5E+4	-22.3			

1 Compounds Failed CCV Criteria

Calibration Verification Report

Calibration ID: CAL9045
Method ID: MJ133

DataFile: J:\GC26\DATA\112409A\1124F038.D\1124F038C.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Tri-n-propyltin		SURR	AverageRF	25		2.0E+4	1.8E+4	-11.1			
Tetra-n-butyltin		MS	AverageRF	25		1.6E+4	1.5E+4	-5.3			
Tri-n-butyltin		MS	AverageRF	25		2.4E+4	2.2E+4	-8.2			
Di-n-butyltin		MS	AverageRF	25		3.2E+4	2.8E+4	-15.0			
n-Butyltin		MS	AverageRF	25		3.7E+4	3.2E+4	-13.3			

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F038.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112409A\1124F038.D\FPD2B.CH
Acq On : 24 Nov 2009 9:25 pm Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911153-8 Inst : GC26
Misc : SEMIVOA GC\W0911153\8-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:27:05 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	Tri-n-propyltin	6.24	5.65	1292190	906125	39.720	44.472	
	Target Compounds							
2)	Tetrabutyltin	6.50	5.86	1054303	767507	36.372	47.346	#
3)	Tri-n-butyltin	7.52	6.81	1394224	980003	36.935	40.907	
4)	Di-n-butyltin	8.52	7.77	1504635	1058510	29.455m	32.586	
5)	n-Butyltin	9.52	8.71	1412605	1002744	24.190	27.013	

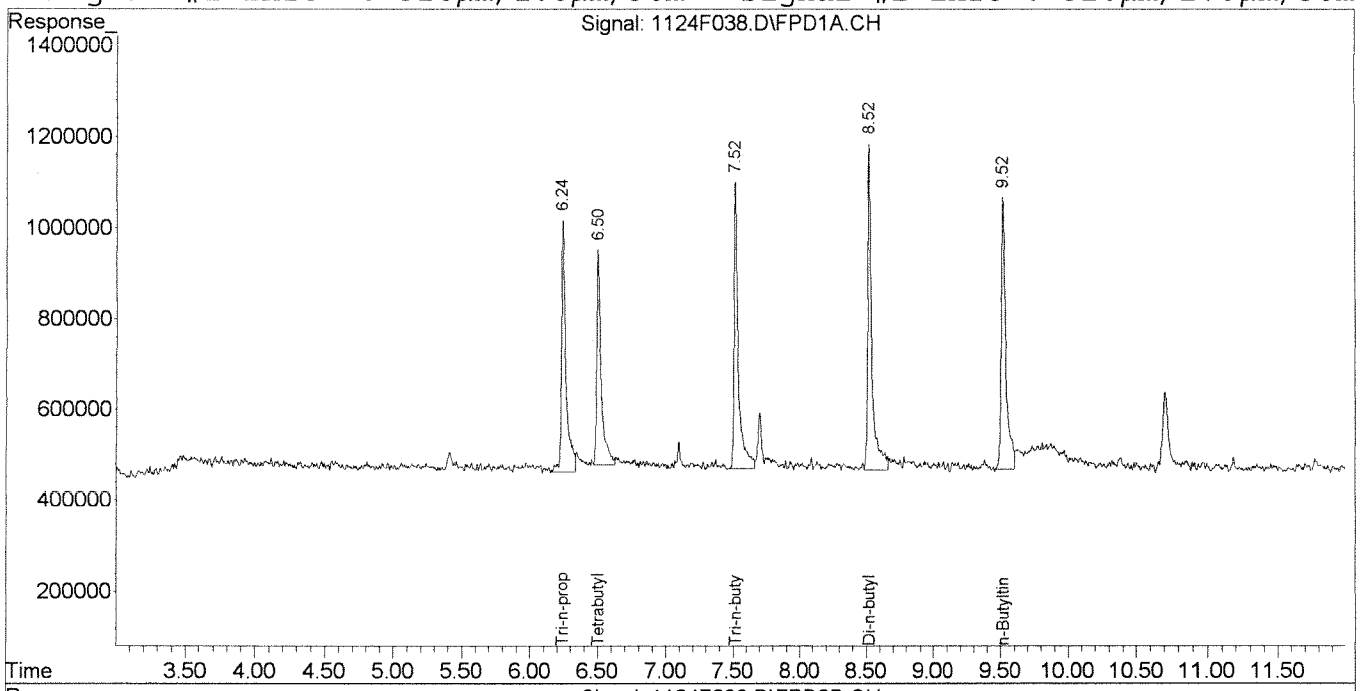
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

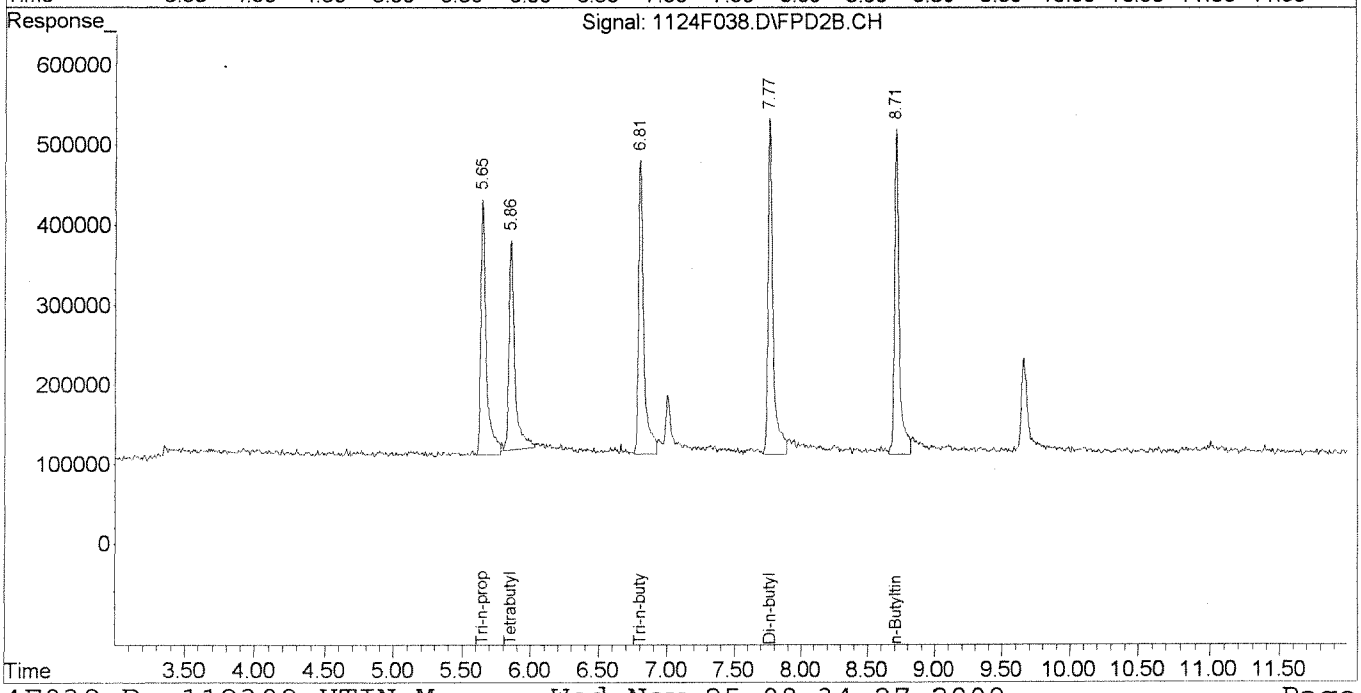
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F038.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112409A\1124F038.D\FPD2B.CH
Acq On : 24 Nov 2009 9:25 pm Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911153-8 Inst : GC26
Misc : SEMIVOA GC\W0911153\8-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:29 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

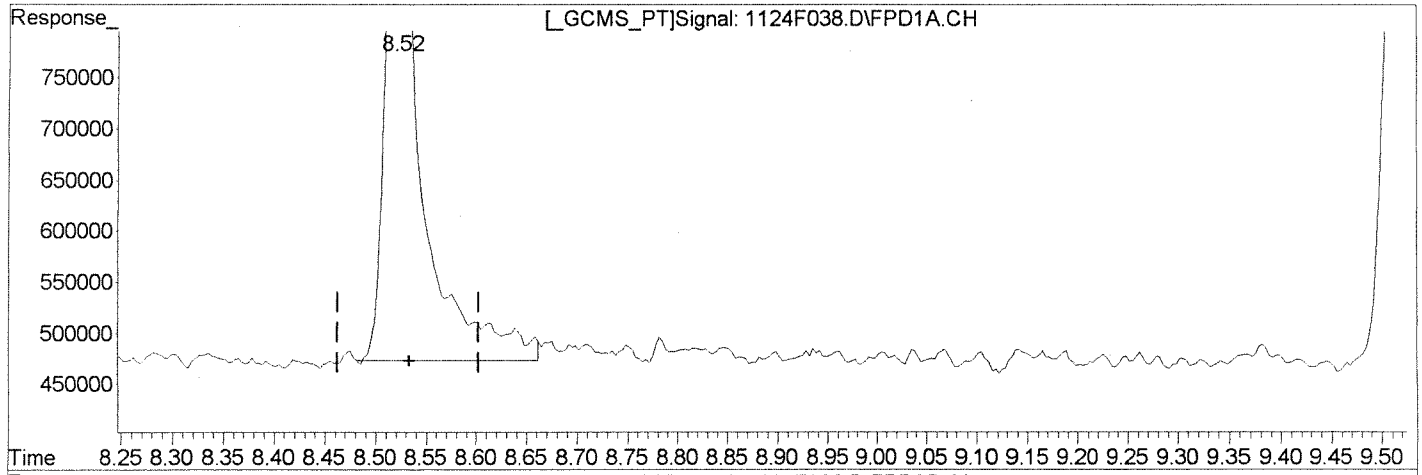


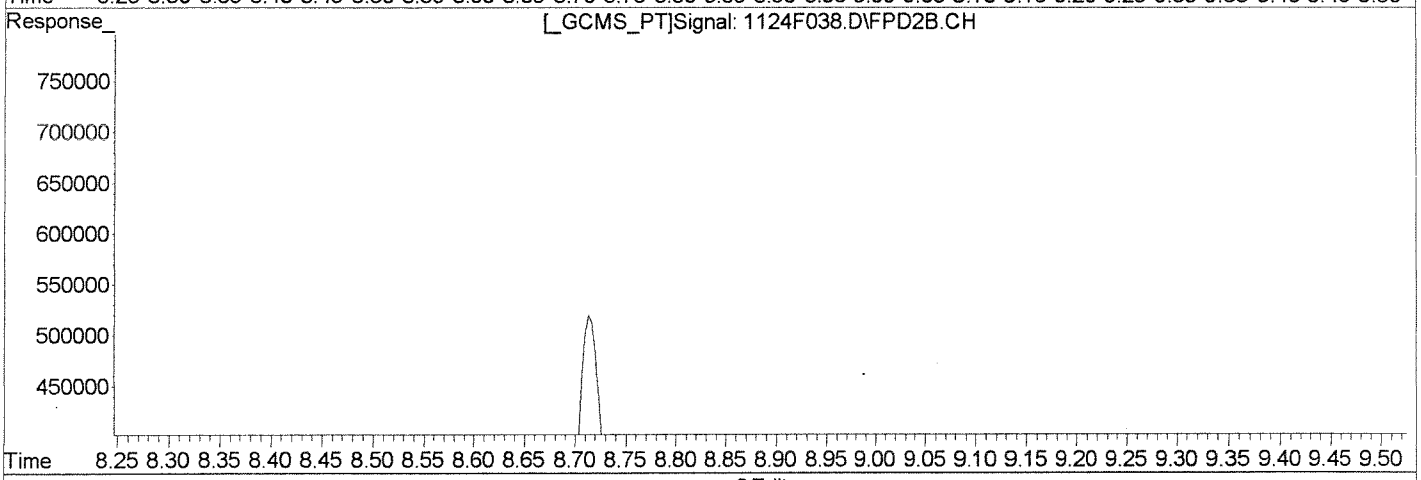


Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112409A\1124F038.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112409A\1124F038.D\FPD2B.CH
Acq On : 24 Nov 2009 9:25 pm Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911153-8 Inst : GC26
Misc : SEMIVOA GC\W0911153\8-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.52min 28.169ng/mL

response 1438939

(4) Di-n-butyltin #2

7.77min 32.586ng/mL

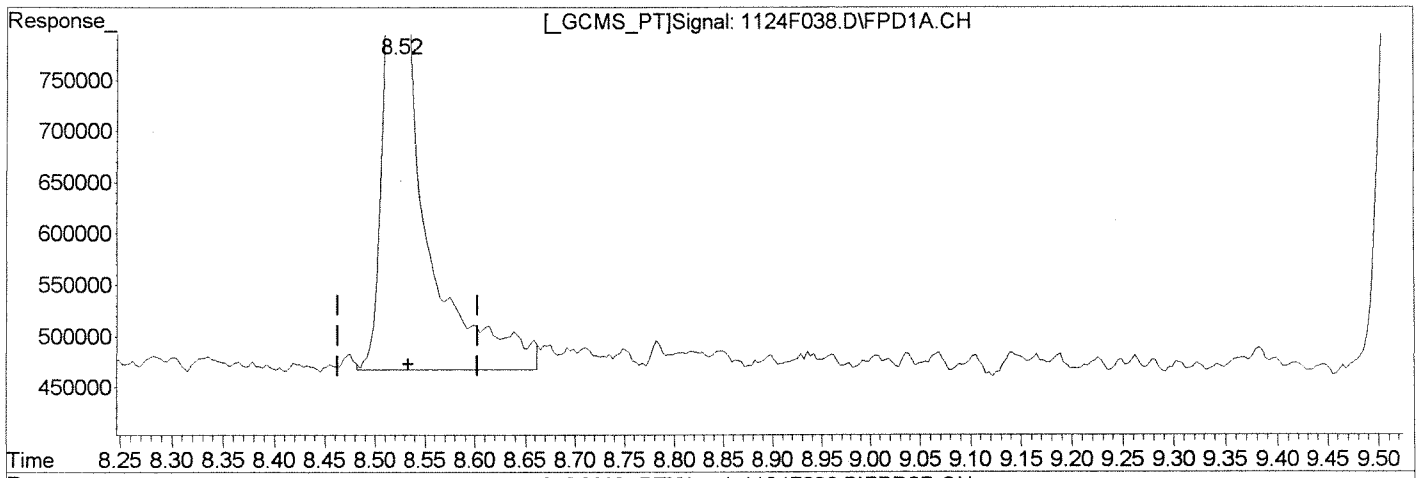
response 1058510

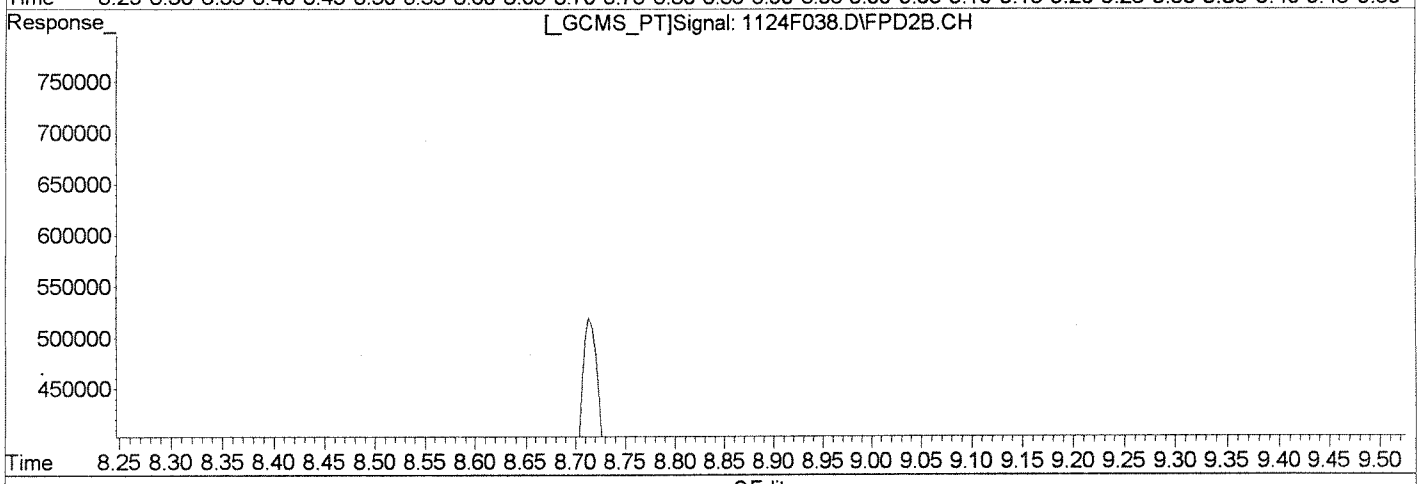
(+) = Expected Retention Time
1124F038.D 112309-HTIN.M Wed Nov 25 08:29:26 2009

Quantitation Report (Qedit)

Signal #1 : J:\GC26\DATA\112409A\1124F038.D\FPD1A.CH Vial: 6
Signal #2 : J:\GC26\DATA\112409A\1124F038.D\FPD2B.CH
Acq On : 24 Nov 2009 9:25 pm Operator: CCotnam
Sample : TINS @ 50ppb | OT4-27A | KWG0911153-8 Inst : GC26
Misc : SEMIVOA GC\W0911153\8-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:27 2009 Quant Results File: 112309-HTIN.RES

Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration





QEdit

(4) Di-n-butyltin

8.52min 29.455ng/mL m

response 1504635

(4) Di-n-butyltin #2

7.77min 32.586ng/mL

response 1058510

11/25/09

(+) = Expected Retention Time
1124F038.D 112309-HTIN.M Wed Nov 25 08:29:34 2009

Organic Analysis:
Butyltins (as cation)

Validation Package

Sample Prep and Screen Data

QUALITY TRACKING FORM

Ext. Date: 11/17/09

DOD? : YES ☐

WORK ORDER #: K0911038 EXTRACT LOCATION: Vial rack

TEST: Tins DATE REQUESTED: 11/24/09

SAMPLE #: 1,5,7,9 DATE DESIRED: ASAP- 11/24 pm

MATRIX: Sediment REQUESTED BY: CC

QUALITY DEFICIENCY: (DOES PC NEED TO BE NOTIFIED? YES ☐ NO ☐)
Notified on/ by: _____

Sulfur Int.

CORRECTIVE ACTION NEEDED:

DMB| Alumina-silica Cln. please :)

For Copper Clean-ups--Date Copper Cleaned: _____
ANALYST: Lindsay Berg
DATE COMPLETED: 11-24-09

REASON FOR QTF/OUTCOME: (copy to prep lab 'Work Order' box)

- ☐ Reext/Prep. Technique (A)
- ☐ Reext/Matrix (B)
- ☐ Reext/GPC Loss (C)
- ☐ Reext/ASE (D)
- ☐ Clean-up Needed (E)
- ☐ HT Missed (Primary) (F)
- ☐ HT Missed Upon Reext. (G)
- ☐ Other (H)_____
- ☐ NCAR Filed (I)
- ☐ HT Missed (Received Past HT) (J)
- ☐ HT Missed (Analytical) (K)

Preparation Information

Group ID:	KWG0910708	**Prep Method:**	METHOD	**Prep Date:**	11/17/09 00:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K0911038-001	LPRT01C	Butyltins BUTYL	SEDIMENT	20.23g	4ml	
K0911038-002	LPRT09H	Butyltins BUTYL	SEDIMENT	20.17g	4ml	
K0911038-003	LPRT02C	Butyltins BUTYL	SEDIMENT	20.03g	4ml	
K0911038-004	LPRT01E	Butyltins BUTYL	SEDIMENT	20.01g	4ml	
K0911038-005	LPRT06C	Butyltins BUTYL	SEDIMENT	20.12g	4ml	
K0911038-006	LPRT06C-FD	Butyltins BUTYL	SEDIMENT	20.06g	4ml	
K0911038-007	LPRT02D	Butyltins BUTYL	SEDIMENT	20.07g	4ml	
K0911038-008	LPRT03C	Butyltins BUTYL	SEDIMENT	20.08g	4ml	
K0911038-009	LPRT09A	Butyltins BUTYL	SEDIMENT	20.39g	4ml	
K0911048-001	PH-01-01-101109	Butyltins BUTYL	SEDIMENT	20.12g	4ml	
K0911048-002	SR-01-01-121109	Butyltins BUTYL	SEDIMENT	20.02g	4ml	
KWG0910708-1	Matrix Spike	Butyltins BUTYL	SEDIMENT	20.02g	4ml	
KWG0910708-2	Duplicate Matrix Spike	Butyltins BUTYL	SEDIMENT	20.02g	4ml	
KWG0910708-3	Lab Control Sample	Butyltins BUTYL	SEDIMENT	20.00g	4ml	
KWG0910708-4	Method Blank	Butyltins BUTYL	SEDIMENT	20.39g	4ml	
KWG0910708-5	Standard Reference Material	Butyltins BUTYL	SEDIMENT	1.00g	4ml	

Lab Code	Parent Lab Code	Comments
KWG0910708-1	K0911048-002	
KWG0910708-2	K0911048-002	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K0911038-001	866943	OT4-26Q	100uL			RLarsen
K0911038-002	866944	OT4-26Q	100uL			RLarsen
K0911038-003	866945	OT4-26Q	100uL			RLarsen
K0911038-004	866946	OT4-26Q	100uL			RLarsen
K0911038-005	866947	OT4-26Q	100uL			RLarsen
K0911038-006	866948	OT4-26Q	100uL			RLarsen
K0911038-007	866949	OT4-26Q	100uL			RLarsen
K0911038-008	866950	OT4-26Q	100uL			RLarsen
K0911038-009	866951	OT4-26Q	100uL			RLarsen
K0911048-001	866952	OT4-26Q	100uL			RLarsen
K0911048-002	866953	OT4-26Q	100uL			RLarsen
KWG0910708-1	866954	OT4-26Q	100uL	OT4-26T	100uL	RLarsen
KWG0910708-2	866955	OT4-26Q	100uL	OT4-26T	100uL	RLarsen

Comments:

Started By: LBerg Assisted By: Training Yes No

Completed By: LBerg Assisted By: Yes No

Reviewed By: [illegible] Date: 11/23/09 Storage: TIMS

Chain of Custody

Relinquished By: [illegible] Date: 11-20-09

Received By: [illegible] Date: 11/20/09 Extracts Examined Yes No

Group ID:	KWG0910708	**Prep Method:**	METHOD	**Prep Date:**	11/17/09 00:00
Department:	Semivoa GC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
KWG0910708-3	866956	OT4-26Q	100uL	OT4-26T	100uL	RLarsen
KWG0910708-4	866957	OT4-26Q	100uL			RLarsen
KWG0910708-5	866958	OT4-26Q	100uL			RLarsen

Comments:

Started By: LBerg Assisted By: Training Yes No

Completed By: LBerg Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: 11.20.09

Received By: Date: 11/20/09 Extracts Examined Yes No

Preparation Information

Due 11/20

Group ID: KWG0910708 **Prep Method:** METHOD **Prep Date:** 11-17-09
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol.	Surr. Added	Spike Added
1	K0911038-001	LPRT01C		✓	Butyltins BUTYLTINS	SEDIMENT	20.22	<2	NA	4mL	100µL	—
2	K0911038-002	LPRT09H		✓	Butyltins BUTYLTINS	SEDIMENT	20.17					—
3	K0911038-003	LPRT02C		✓	Butyltins BUTYLTINS	SEDIMENT	20.03					—
4	K0911038-004	LPRT01E		✓	Butyltins BUTYLTINS	SEDIMENT	20.01					—
5	K0911038-005	LPRT06C		✓	Butyltins BUTYLTINS	SEDIMENT	20.17					—
6	K0911038-006	LPRT06C-FD		✓	Butyltins BUTYLTINS	SEDIMENT	20.06					—
7	K0911038-007	LPRT02D		✓	Butyltins BUTYLTINS	SEDIMENT	20.07					—
8	K0911038-008	LPRT03C		✓	Butyltins BUTYLTINS	SEDIMENT	20.05					—
9	K0911038-009	LPRT09A		✓	Butyltins BUTYLTINS	SEDIMENT	20.39					—
10	K0911048-001	PH-01-01-101109		✓	Butyltins BUTYLTINS	SEDIMENT	20.12					—
11	K0911048-002	SR-01-01-121109		✓	Butyltins BUTYLTINS	SEDIMENT	20.04					—
12	KWG0910708-1	Matrix Spike 11048-2			Butyltins BUTYLTINS	SEDIMENT	20.03					100µL
13	KWG0910708-2	Duplicate Matrix Spike 11048-2			Butyltins BUTYLTINS	SEDIMENT	20.07					
14	KWG0910708-3	Lab Control Sample			Butyltins BUTYLTINS	SEDIMENT	20.00					
15	KWG0910708-4	Method Blank			Butyltins BUTYLTINS	SEDIMENT	20.39					—
16	KWG0910708-5	Standard Reference Material			Butyltins BUTYLTINS	SEDIMENT	20					—

Comments:

Surrogate ID: OT4-26Q 5ppm XP: 12/21/09 100µL eppA
Spike ID: OT4-26T 5ppm XP: 1/13/10 100µL eppA
Witness: RLarsen 11/17/09

Started By: LBerg Assisted By:
Completed By: LBerg Assisted By:

Columbia Analytical Services

Preparation Information Benchsheet

Prep Run: 101025
Team: Semivoa GC
Analyst: RLARSEN
Prep Workflow: OrgExtTINS14
Prep Method: Method
Rush/NPDES: NPDES
Status: Draft
Current Step: Derivitization
Prep Date: 11/17/2009 12:00
Due Date: 11/20/2009

Lab Code	Client ID	Bottle #	Target Amt	Initial Amt	Initial Basis	Final Volume	Surr Amt	Surr ID	Spike Amt	Spike ID	Analytical Method	Comments
K0911038-001	LPRT01C	.02	38.61 g	g		4 mL					Butyltins	
K0911038-002	LPRT09H	.02	24.24 g	g		4 mL					Butyltins	
K0911038-003	LPRT02C	.02	58.65 g	g		4 mL					Butyltins	
K0911038-004	LPRT01E	.02	31.06 g	g		4 mL					Butyltins	
K0911038-005	LPRT06C	.02	42.64 g	g		4 mL					Butyltins	
K0911038-006	LPRT06C-FD	.02	43.57 g	g		4 mL					Butyltins	
K0911038-007	LPRT02D	.02	62.70 g	g		4 mL					Butyltins	
K0911038-008	LPRT03C	.02	55.71 g	g		4 mL					Butyltins	
K0911038-009	LPRT09A	.02	29.63 g	g		4 mL					Butyltins	
K0911048-001	PH-01-01-101109	.03	20.00 g	g		4 mL					Butyltins	
K0911048-002	SR-01-01-121109	.03	20.00 g	g		4 mL					Butyltins	
K0911048-002: KQ0905288-01	Matrix Spike	.03	20.00 g	g		4 mL					Butyltins	
K0911048-002: KQ0905288-02	Matrix Spike Duplicate	.03	20.00 g	g		4 mL					Butyltins	
KQ0905288-03	Lab Control Sample		20.00 g	g		4 mL					Butyltins	
KQ0905288-04	Method Blank		20.00 g	g		4 mL					Butyltins	
KQ0905288-05	Standard Reference Material		20.00 g	g		4 mL					Butyltins	

11 Client Samples, 2 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Witness: RLarsen

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	17-NOV-09 12:00	17-NOV-09 12:00	LBerg		N	
Derivitization					N	
Sulfur Clean					N	
Column Clean					N	
Final Volume					N	

Comments

Review

Reviewed by: _____ Date: _____

Chain of Custody

Relinquished By:	_____	Date:	_____
Received By:	_____	Date:	_____

Extracts/Digestions Examined
Yes No

Additional Prep Information For Organotin Soil Extractions

Service Request # K0911038/-11048 Work Group Number KWG0910708

Pre-Prep Information:

DCM Lot #: 07223
Hexane Lot #: 49175
HCl Lot #: 48301
H_2O Lot #: 49203
Tropolone Lot#: XV768

Na_2SO_4 (G) Lot #: 48273846
Na_2SO_4 (P) Lot #: 49241941
Grignard Lot #: 234
DMD Lot#: 112009
Pentane Lot #: 49106

Acidified? : yes

Tumbler (16hr.) start time/date/initial: 1500/11.17.09/JB
Tumbler (16hr.) end time/date/initial: 0810/11.18.09/JB

H_2O Wash? : yes

Date Derivatization started (date/initial): 11.18.09/JB
Date Derivatization ended (date/initial): 11.19.09/JB

DMD (volume/date/initial): 11.20.09/JB/1mL

Alumina (3610)/Silica Gel (3630) (date/initial): 11.20.09/JB

Comments/Observations: 2nd SG/Alumina clean up done on K0911038 2,3,6 & 9/

Bench Sheet Review Check List
☑ Hold Times Met (if no, Reason:)
☑ Prep date, dept, method, product code correct in stealth
☑ Spike Information correct
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked—Bottle numbers appended if required
☑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
☑ Training has been circled
☑ Extract Storage recorded
☑ Additional Prep Sheet completely filled out (NA or line out Blanks)
☑ All clean-ups have been noted on additional prep sheet
☑ Signed service request with Form V, if applicable, has been attached

R:\SVG\FORMS\OTPREPSOIL.DOC

Sequence Name: C:\GC26\SEQUENCE\112309B.S
Comment:
Operator: CCotnam
Data Path: C:\GC26\DATA\112309\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CA 9045
run # 180765

	Line	Type	Vial	DataFile	Method	Sample Name		
	1	IB	1	1123F001	TINS2	IB		
	2	IB	2	1123F002	TINS2	KWG0911115-1	IB	Butyltins
	3	CCV	3	1123F003	TINS2	TINS @ 50ppb	OT4-27A	KWG0
	4	IB	2	1123F004	TINS2	KWG0911115-1	IB	Butyltins
	5	SMPL	7	1123F005	TINS2	K0910845-016	LPRT04D	
	6	SMPL	8	1123F006	TINS2	K0911031-008	1-A @500X	
	7	MB	9	1123F007	TINS2	KWG0910708-4	MB	Butyltins
	8	LCS	10	1123F008	TINS2	KWG0910708-3	LCS	Butyltin
OK, KW	9	SOLN	11	1123F009	TINS2	KWG0910708-5	SRM	
	10	SMPL	12	1123F010	TINS2	K0911038-001	LPRT01C - NR DMDCN	
	11	SMPL	13	1123F011	TINS2	K0911038-002	LPRT09H	
	12	SMPL	14	1123F012	TINS2	K0911038-003	LPRT02C	
	13	SMPL	15	1123F013	TINS2	K0911038-004	LPRT01E	
	14	SMPL	16	1123F014	TINS2	K0911038-005	LPRT06C - NR DMDCN	
	15	IB	1	1123FX15	TINS2	IB		
	16	IB	1	1123FX16	TINS2	IB		
	17	IB	1	1123F015	TINS2	IB		
	18	IB	2	1123F016	TINS2	KWG0911115-3	IB	Butyltins
OK, KW	19	CCV	3	1123F017	TINS2	TINS @ 50ppb	OT4-27A	KWG0
	20	IB	2	1123F018	TINS2	KWG0911115-3	IB	Butyltins
	21	SMPL	17	1123F019	TINS2	K0911038-006	LPRT06C-FD	
	22	SMPL	18	1123F020	TINS2	K0911038-007	LPRT02D - NR DMDCN	
	23	SMPL	19	1123F021	TINS2	K0911038-008	LPRT03C	
	24	SMPL	20	1123F022	TINS2	K0911038-009	LPRT09A - NR DMDCN	
	25	SMPL	21	1123F023	TINS2	K0911048-001	PH-01-01-10110	
	26	SMPL	22	1123F024	TINS2	K0911048-002	SR-01-01-12110	
	27	MS	23	1123F025	TINS2	KWG0910708-1	K0911048-002MS - NR reinjct	
	28	DMS	24	1123F026	TINS2	KWG0910708-2	K0911048-002DM	
	29	MS	23	1123FX25	TINS2	KWG0910708-1	K0911048-002MS	
	30	IB	4	1123FX27	TINS2	IB		
	31	IB	4	1123FX28	TINS2	IB		
	32	IB	4	1123F027	TINS2	IB		
	33	IB	5	1123F028	TINS2	KWG0911115-5	IB	Butyltins
KW	34	CCV	6	1123F029	TINS2	TINS @ 50ppb	OT4-27A	KWG0

Last Modified: Tue Nov 24 09:05:47 2009

Exception Report

Data File: J:\GC26\DATA\112309B\1123F002.D
Lab ID: KWG0911115-1
RunType: IB
Matrix: MISC

Date Acquired: 11/23/2009 23:48
Date Quantitated: 11/24/2009 08:21
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: 11/24 [illegible]

Printed: 11/24/2009 09:20:40
\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	J:\GC26\DATA\112309B\1123F002.D\1123F002C.D	**Date Acquired:**	11/23/2009 23:48
Lab ID:	KWG0911115-1	**Date Quantitated:**	11/24/2009 08:21
RunType:	IB	**Batch ID:**	KWG0911115
Matrix:	MISC	**Analysis Method:**	Krone
		MethodJoinID:	MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F002.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F002.D\1123F002c.d			**Vial:**	2
Acqu Date:	11/23/2009 23:48	**Quant Date:**	11/24/2009 08:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-1				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000			
Tri-n-butyltin			0d	0	0.0000	0.0000			
Di-n-butyltin			0d	0d	0.0000	0.0000			
n-Butyltin			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F002.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F002.D\FPD2B.CH
Acq On : 23 Nov 2009 11:48 pm Operator: CCotnam
Sample : KWG0911115-1 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:49 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

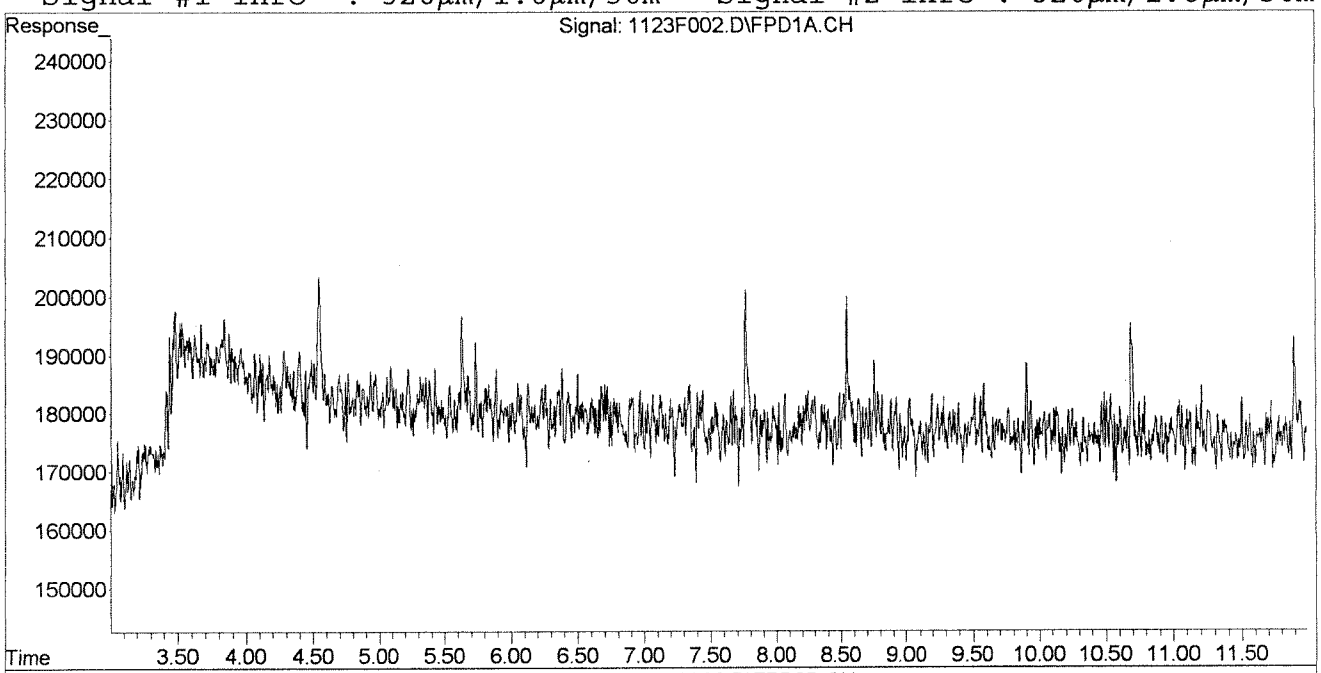
Target Compounds

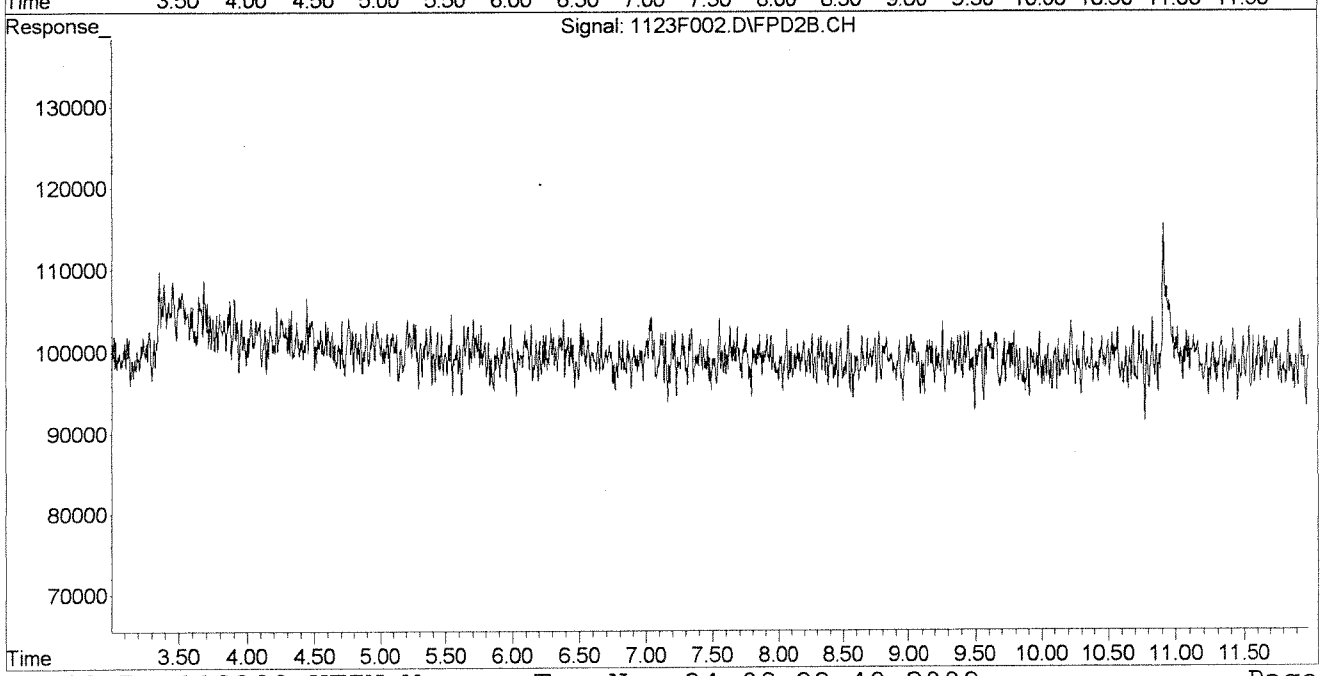
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F002.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F002.D\FPD2B.CH
Acq On : 23 Nov 2009 11:48 pm Operator: CCotnam
Sample : KWG0911115-1 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:21 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Exception Report

Data File: J:\GC26\DATA\112309B\1123F004.D
Lab ID: KWG0911115-1
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 00:21
Date Quantitated: 11/24/2009 08:21
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 11/24/09

Printed: 11/24/2009 09:20:52
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123F004.D\1123F004C.D
Lab ID: KWG0911115-1
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 00:21
Date Quantitated: 11/24/2009 08:21
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:20:55
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F004.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F004.D\1123F004c.d			**Vial:**	2
Acqu Date:	11/24/2009 00:21	**Quant Date:**	11/24/2009 08:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-1				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0d	0.0000	0.0000			
Tri-n-butyltin			0d	0	0.0000	0.0000			
Di-n-butyltin			0d	0d	0.0000	0.0000			
n-Butyltin			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F004.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F004.D\FPD2B.CH
Acq On : 24 Nov 2009 12:21 am Operator: CCotnam
Sample : KWG0911115-1 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:17:50 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

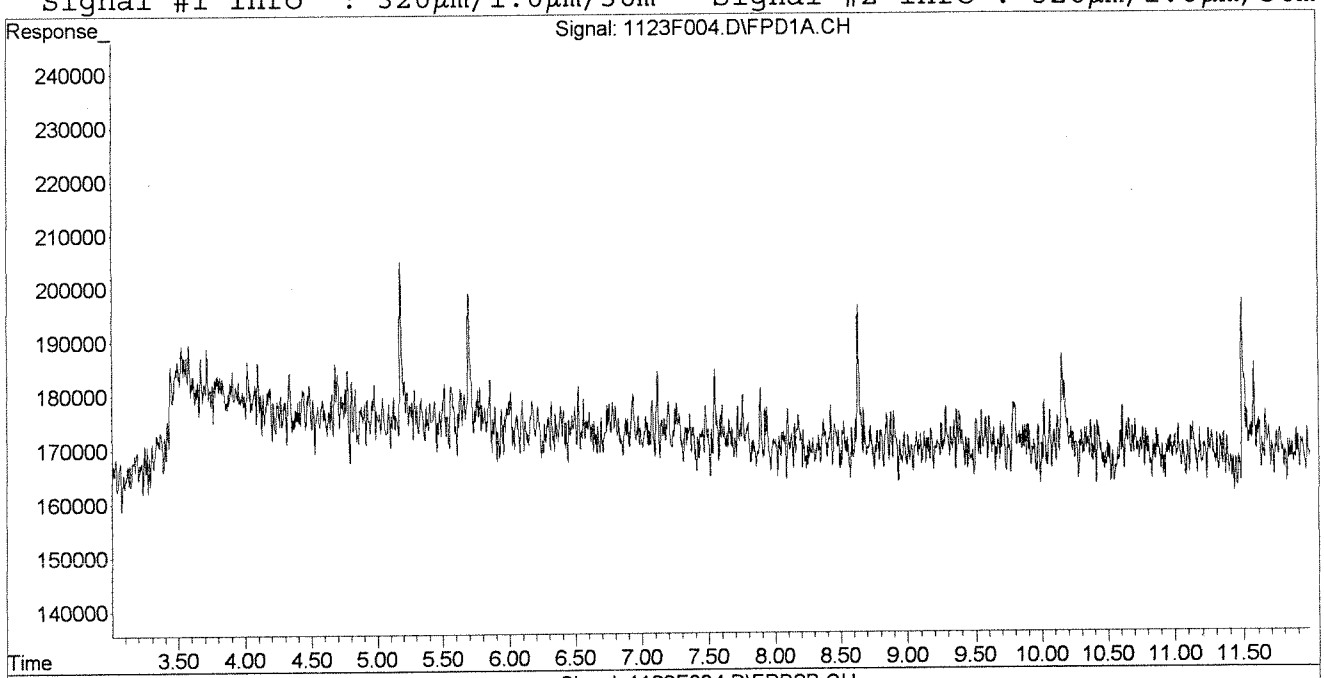
Target Compounds

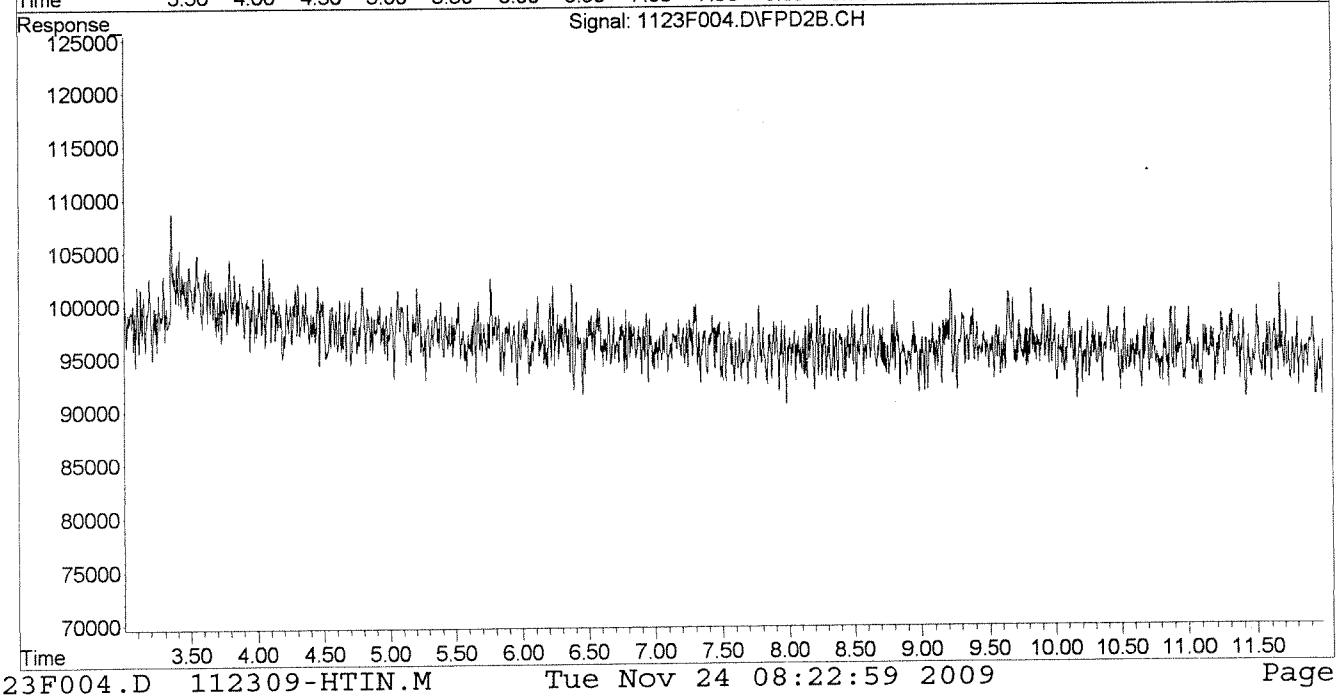
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F004.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F004.D\FPD2B.CH
Acq On : 24 Nov 2009 12:21 am Operator: CCotnam
Sample : KWG0911115-1 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\1-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:21 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Exception Report

Data File: J:\GC26\DATA\112309B\1123F016.D
Lab ID: KWG0911115-3
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 04:07
Date Quantitated: 11/24/2009 08:21
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: [illegible] 11/24/09

Printed: 11/24/2009 09:21:46
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123F016.D\1123F016C.D
Lab ID: KWG0911115-3
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 04:07
Date Quantitated: 11/24/2009 08:21
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:21:49
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F016.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F016.D\1123F016c.d			**Vial:**	2
Acqu Date:	11/24/2009 04:07	**Quant Date:**	11/24/2009 08:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-3				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0d		0.0000			NA
			%Recovery =		NA	NA	Limits =	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000			
Tri-n-butyltin			0d	0d	0.0000	0.0000			
Di-n-butyltin			0	0	0.0000	0.0000			
n-Butyltin			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F016.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F016.D\FPD2B.CH
Acq On : 24 Nov 2009 4:07 am Operator: CCotnam
Sample : KWG0911115-3 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\3-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:02 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

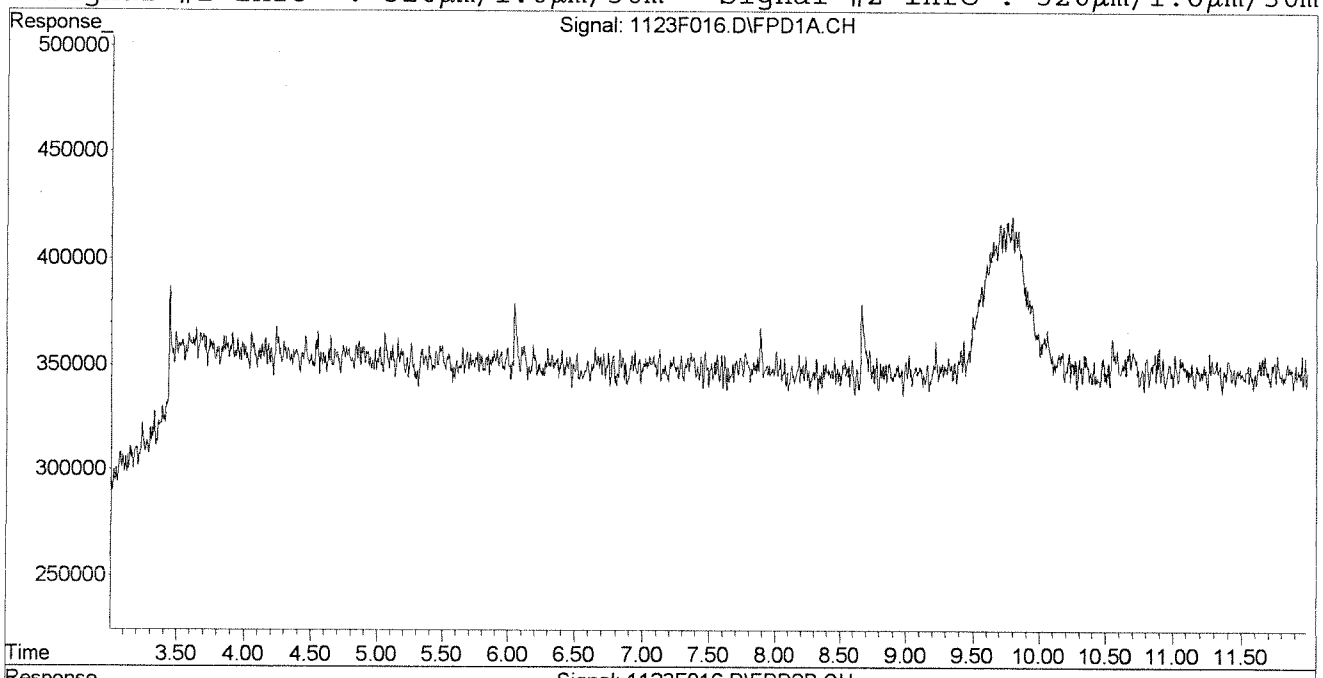
Target Compounds

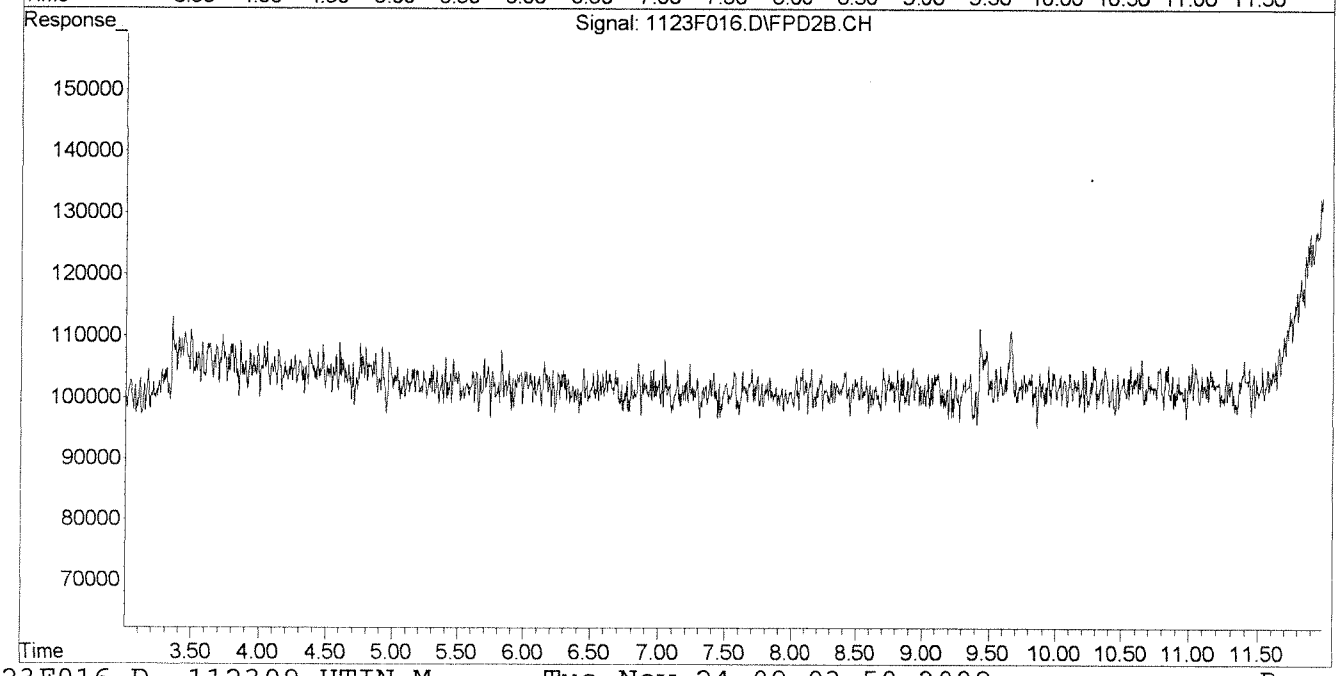
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F016.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F016.D\FPD2B.CH
Acq On : 24 Nov 2009 4:07 am Operator: CCotnam
Sample : KWG0911115-3 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\3-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:21 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Exception Report

Data File: J:\GC26\DATA\112309B\1123F018.D
Lab ID: KWG0911115-3
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 04:40
Date Quantitated: 11/24/2009 08:22
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/24/09

Secondary Review: 12/1/09

Printed: 11/24/2009 09:21:58
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	J:\GC26\DATA\112309B\1123F018.D\1123F018C.D	**Date Acquired:**	11/24/2009 04:40
Lab ID:	KWG0911115-3	**Date Quantitated:**	11/24/2009 08:22
RunType:	IB	**Batch ID:**	KWG0911115
Matrix:	MISC	**Analysis Method:**	Krone
		MethodJoinID:	MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:22:01
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F018.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F018.D\1123F018c.d			**Vial:**	2
Acqu Date:	11/24/2009 04:40	**Quant Date:**	11/24/2009 08:22	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-3				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0d	0.0000	0.0000			
Tri-n-butyltin			0	0d	0.0000	0.0000			
Di-n-butyltin			0	0	0.0000	0.0000			
n-Butyltin			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F018.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F018.D\FPD2B.CH
Acq On : 24 Nov 2009 4:40 am Operator: CCotnam
Sample : KWG0911115-3 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\3-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:18:04 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

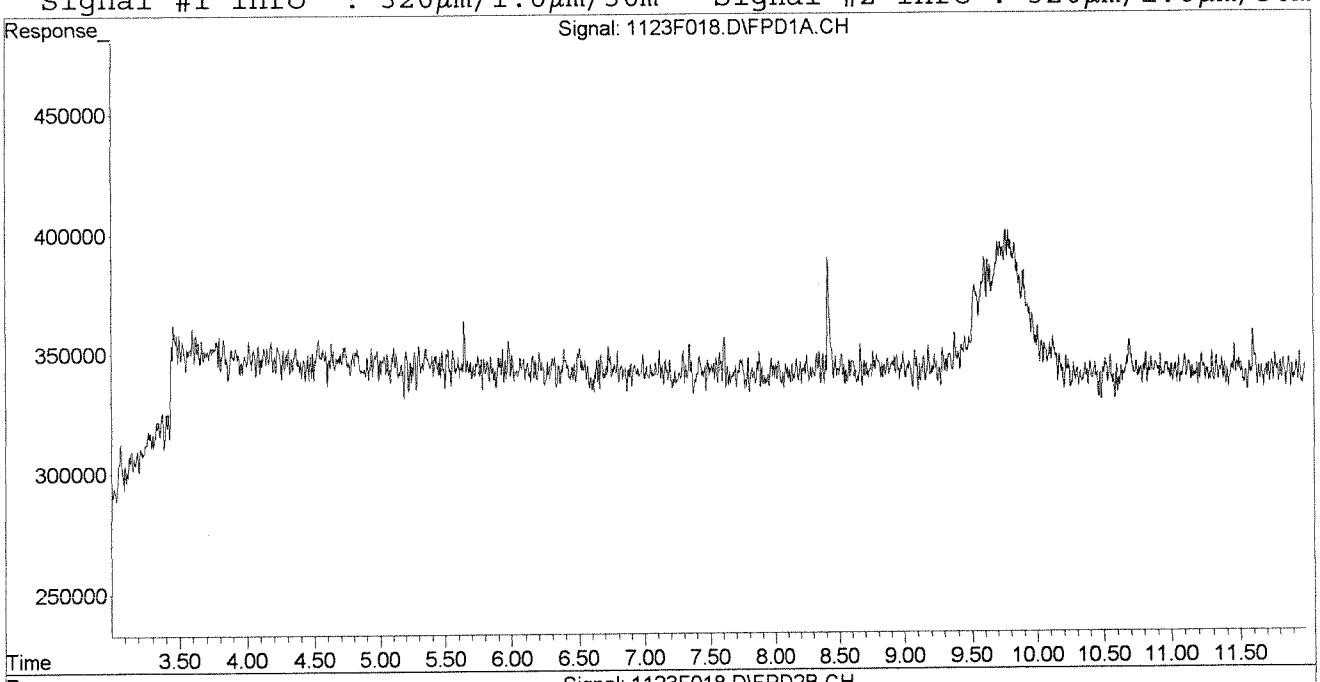
Target Compounds

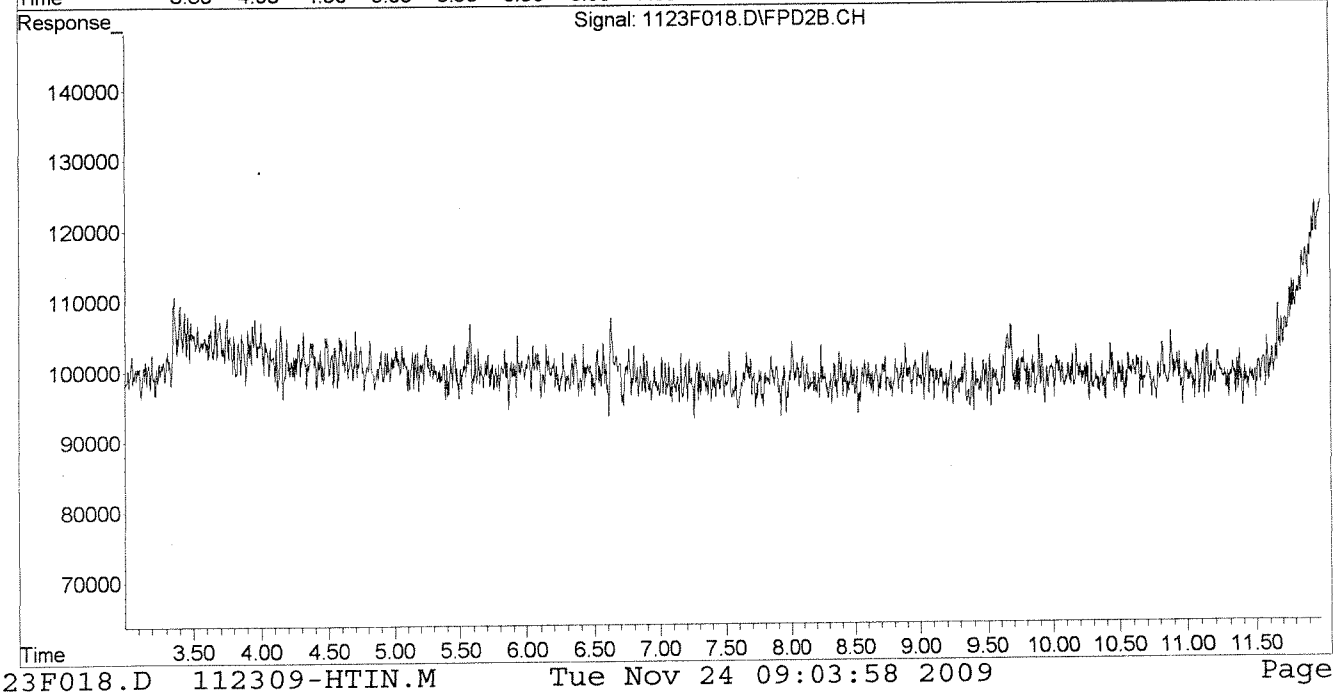
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F018.D\FPD1A.CH Vial: 2
Signal #2 : J:\GC26\DATA\112309B\1123F018.D\FPD2B.CH
Acq On : 24 Nov 2009 4:40 am Operator: CCotnam
Sample : KWG0911115-3 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\3-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:22 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Exception Report

Data File: J:\GC26\DATA\112309B\1123F028.D
Lab ID: KWG0911115-5
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 08:11
Date Quantitated: 11/24/2009 08:25
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: [illegible]

Secondary Review: [illegible] 11/24/09

Printed: 11/24/2009 09:22:40
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: J:\GC26\DATA\112309B\1123F028.D\1123F028C.D
Lab ID: KWG0911115-5
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 08:11
Date Quantitated: 11/24/2009 08:25
Batch ID: KWG0911115
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Printed: 11/24/2009 09:22:43
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/23/2009

Analysis Lot:	KWG0911115	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112309B\1123F028.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112309B\1123F028.D\1123F028c.d			**Vial:**	5
Acqu Date:	11/24/2009 08:11	**Quant Date:**	11/24/2009 08:25	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911115-5				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	**Limits =**	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000			
Tri-n-butyltin			0d	0	0.0000	0.0000			
Di-n-butyltin			0	0	0.0000	0.0000			
n-Butyltin			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC26\DATA\112309B\1123F028.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112309B\1123F028.D\FPD2B.CH
Acq On : 24 Nov 2009 8:11 am Operator: CCotnam
Sample : KWG0911115-5 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\5-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 08:25:13 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

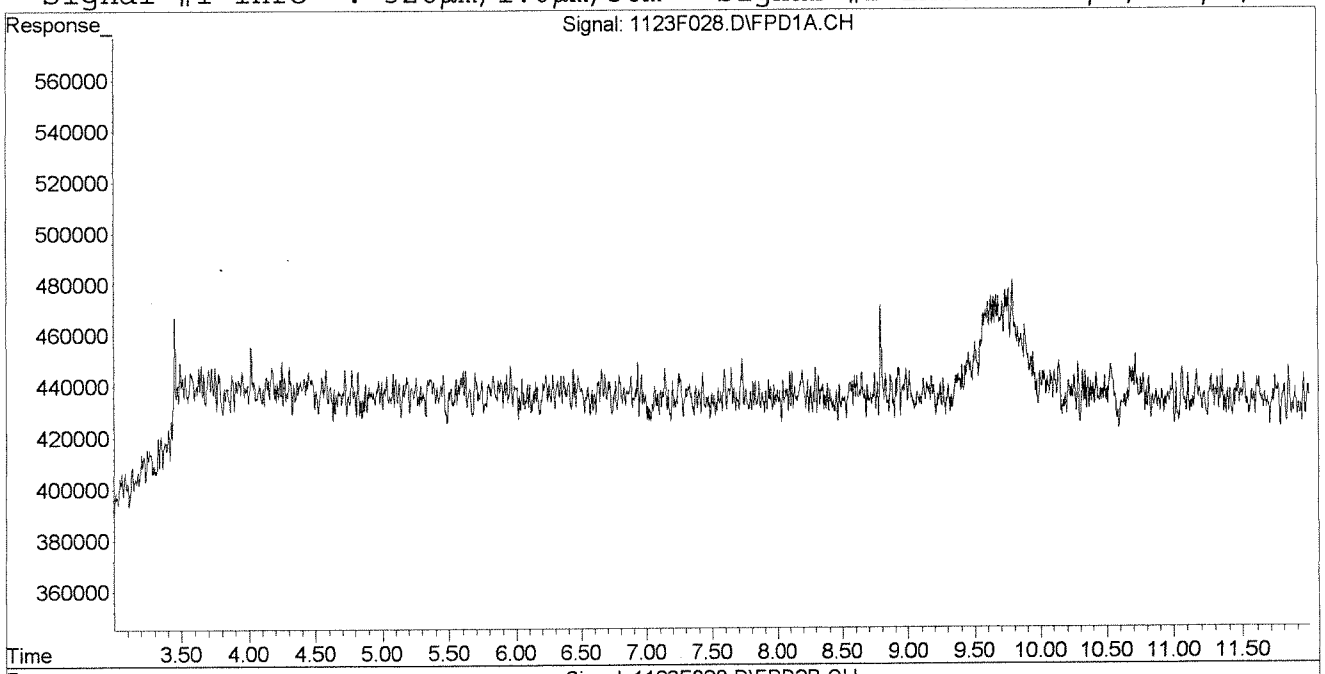
Target Compounds

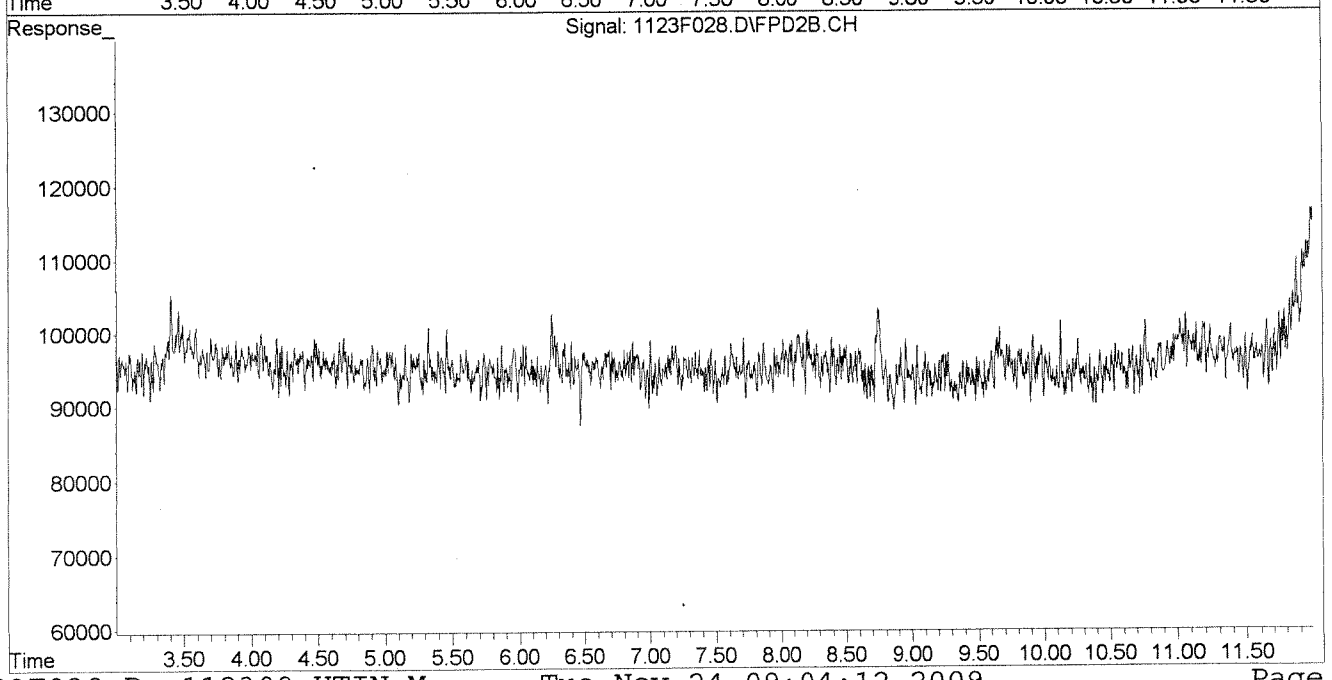
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC26\DATA\112309B\1123F028.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112309B\1123F028.D\FPD2B.CH
Acq On : 24 Nov 2009 8:11 am Operator: CCotnam
Sample : KWG0911115-5 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911115\5-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 24 8:25 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Sequence Name: C:\GC26\SEQUENCE\112409A.S
Comment:
Operator: CCotnam
Data Path: C:\GC26\DATA\112409A\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL 7645

Line	Type	Vial	DataFile	Method	Sample Name			
1	IB	1	1124F001	TINS2	IB			
2	IB	2	1124F002	TINS2	KWG0911153-1	IB	Butyltins	
3	CCV	3	1124F003	TINS2	TINS @ 50ppb	OT4-27A	KWG0	
4	IB	2	1124F004	TINS2	KWG0911153-1	IB	Butyltins	
5	MB	7	1124F005	TINS2	KWG0910710-4	MB	Butyltins	
6	LCS	8	1124F006	TINS2	KWG0910710-3	LCS	Butyltin	
7	SOLN	9	1124F007	TINS2	KWG0910710-5	SRM		
8	SMPL	10	1124F008	TINS2	K0911121-001	LPRT04F		
9	SMPL	11	1124F009	TINS2	K0911121-002	LPRT03F		
10	SMPL	12	1124F010	TINS2	K0911121-003	LPRT04C		
11	SMPL	13	1124F011	TINS2	K0911121-005	LPRH05B		
12	SMPL	14	1124F012	TINS2	K0911121-006	LPRH09B		
13	SMPL	15	1124F013	TINS2	K0911121-007	LPRT03G		
14	IB	1	1124F014	TINS2	IB			
15	IB	2	1124F015	TINS2	KWG0911153-3	IB	Butyltins	
16	CCV	3	1124F016	TINS2	TINS @ 50ppb	OT4-27A	KWG0	
17	IB	2	1124F017	TINS2	KWG0911153-3	IB	Butyltins	
18	SMPL	16	1124F018	TINS2	K0911121-008	LPRH13B		
19	SMPL	17	1124F019	TINS2	K0911121-009	LPRH05A		
20	SMPL	18	1124F020	TINS2	K0911121-010	LPRH07B		
21	SMPL	19	1124F021	TINS2	K0911121-011	LPRH10A		
22	SMPL	20	1124F022	TINS2	K0911121-012	LPRH11A		
23	SMPL	21	1124F023	TINS2	K0911121-013	LPRH11B		
24	MS	22	1124F024	TINS2	KWG0910710-1	K0911121-013MS		
25	DMS	23	1124F025	TINS2	KWG0910710-2	K0911121-013DM		
26	IB	4	1124F026	TINS2	IB			
27	IB	5	1124F027	TINS2	KWG0911153-5	IB	Butyltins	
28	CCV	6	1124F028	TINS2	TINS @ 50ppb	OT4-27A	KWG0	
29	IB	5	1124F029	TINS2	KWG0911153-5	IB	Butyltins	
30	SMPL	24	1124F030	TINS2	K0911121-014	LPRH16A		
31	SMPL	25	1124F031	TINS2	K0911121-015	LPRH12B		
32	SMPL	26	1124F032	TINS2	K0911038-001			
33	SMPL	27	1124F033	TINS2	K0911038-005			
34	SMPL	28	1124F034	TINS2	K0911038-007			
35	SMPL	29	1124F035	TINS2	K0911038-009			
36	IB	4	1124F036	TINS2	IB			
37	IB	5	1124F037	TINS2	KWG0911153-7	IB	Butyltins	
38	CCV	6	1124F038	TINS2	TINS @ 50ppb	OT4-27A	KWG0	

Exception Report

Data File: J:\GC26\DATA\112409A\1124F027.D
Lab ID: KWG0911153-5
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 18:14
Date Quantitated: 11/25/2009 08:28
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/25/09

Secondary Review: 11/25/09

Exception Report

Data File: J:\GC26\DATA\112409A\1124F027.D\1124F027C.D
Lab ID: KWG0911153-5
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 18:14
Date Quantitated: 11/25/2009 08:28
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: 11/25/09

Secondary Review: 11/25/09

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/24/2009

Analysis Lot:	KWG0911153	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112409A\1124F027.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F027.D\1124F027c.d			**Vial:**	5
Acqu Date:	11/24/2009 18:14	**Quant Date:**	11/25/2009 08:28	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911153-5				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0d	0d		0.0000			NA
			%Recovery =		NA	NA	Limits =	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0d	0d	0.0000	0.0000			
Tri-n-butyltin			0d	0	0.0000	0.0000			
Di-n-butyltin			0	0d	0.0000	0.0000			
n-Butyltin			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F027.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112409A\1124F027.D\FPD2B.CH
Acq On : 24 Nov 2009 6:14 pm Operator: CCotnam
Sample : KWG0911153-5 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911153\5-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:26:58 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

Target Compounds

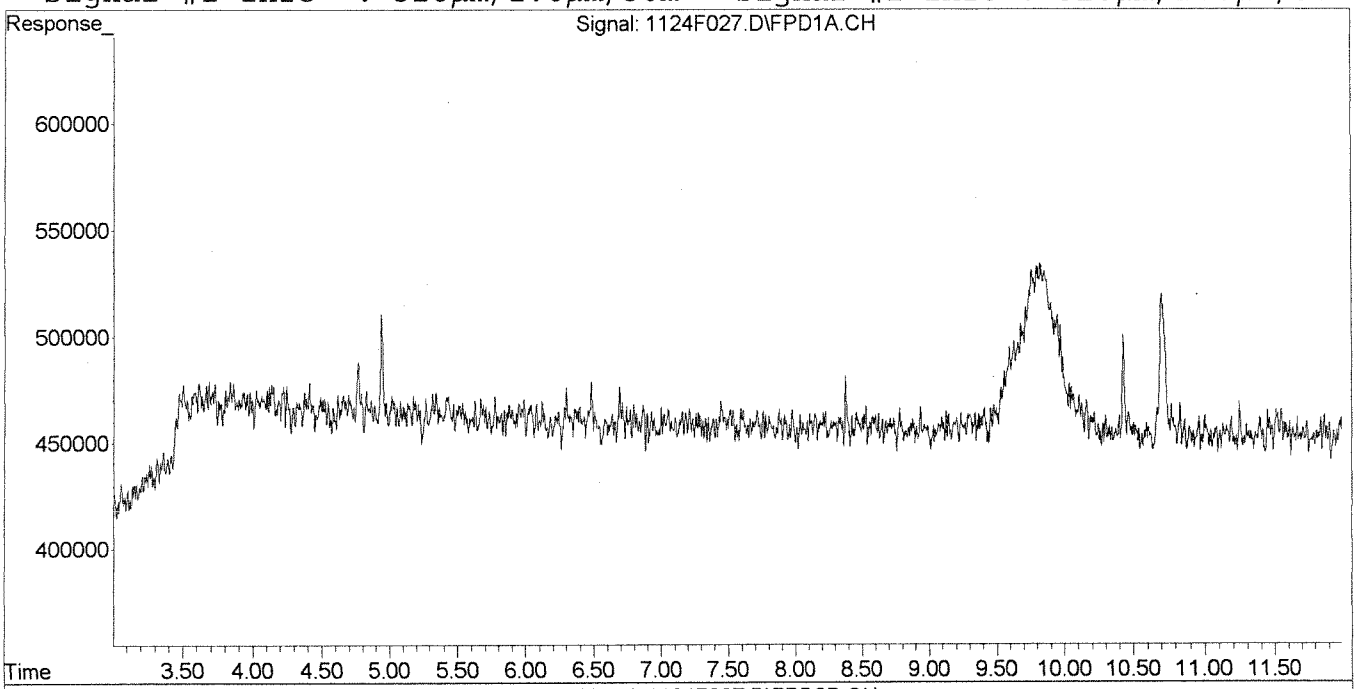
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

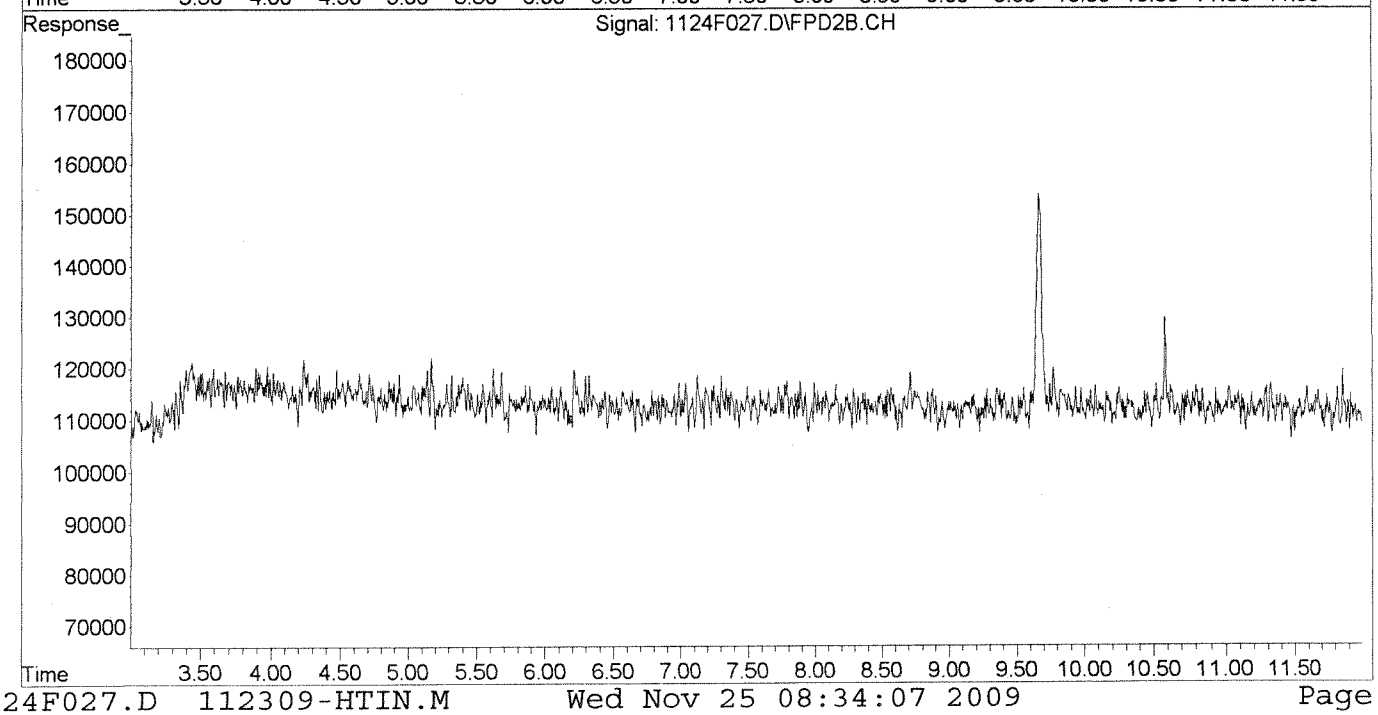
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F027.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112409A\1124F027.D\FPD2B.CH
Acq On : 24 Nov 2009 6:14 pm Operator: CCotnam
Sample : KWG0911153-5 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911153\5-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:28 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Exception Report

Data File: J:\GC26\DATA\112409A\1124F029.D
Lab ID: KWG0911153-5
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 18:48
Date Quantitated: 11/25/2009 08:32
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/25/09

Secondary Review: 11/25/09

Exception Report

Data File: J:\GC26\DATA\112409A\1124F029.D\1124F029C.D
Lab ID: KWG0911153-5
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 18:48
Date Quantitated: 11/25/2009 08:32
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/24/2009

Analysis Lot:	KWG0911153	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112409A\1124F029.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F029.D\1124F029c.d			**Vial:**	5
Acqu Date:	11/24/2009 18:48	**Quant Date:**	11/25/2009 08:32	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911153-5				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0d		0.0000			NA
			%Recovery =		NA	NA	Limits =	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0d	0d	0.0000	0.0000			
Tri-n-butyltin			0d	0d	0.0000	0.0000			
Di-n-butyltin			0d	0d	0.0000	0.0000			
n-Butyltin			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F029.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112409A\1124F029.D\FPD2B.CH
Acq On : 24 Nov 2009 6:48 pm Operator: CCotnam
Sample : KWG0911153-5 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911153\5-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:26:59 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

Target Compounds

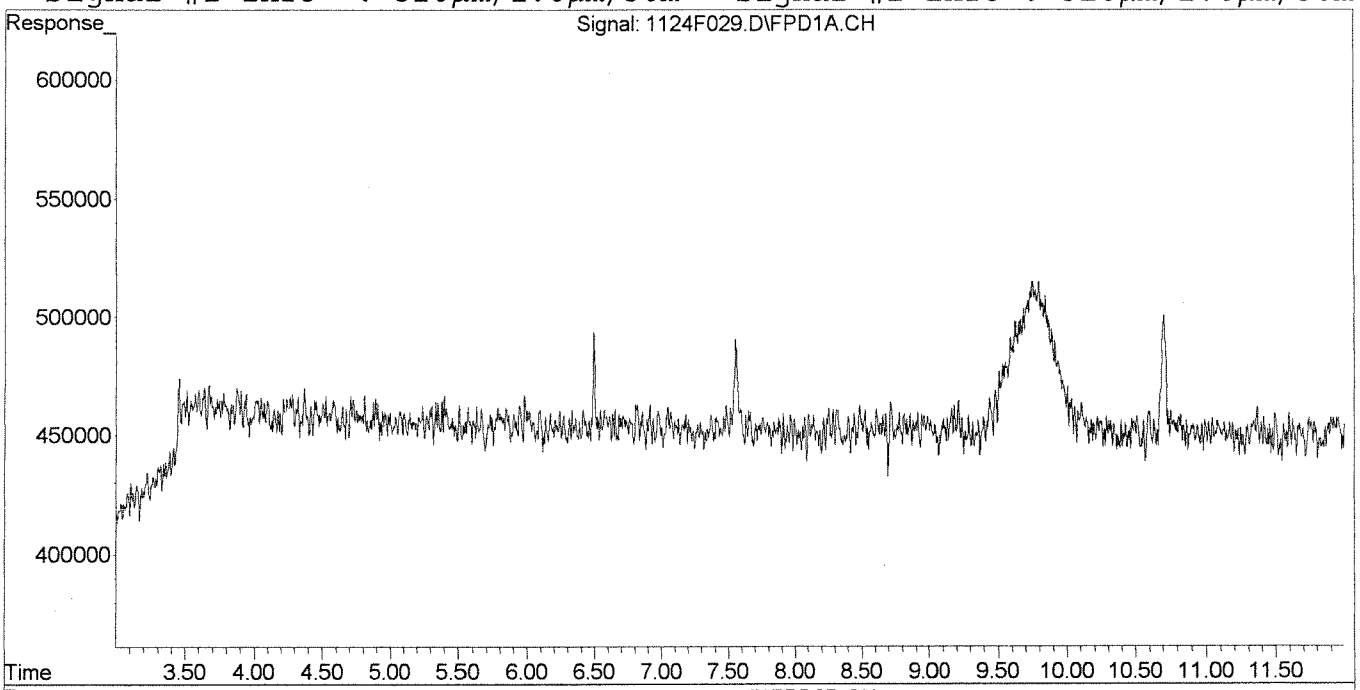
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

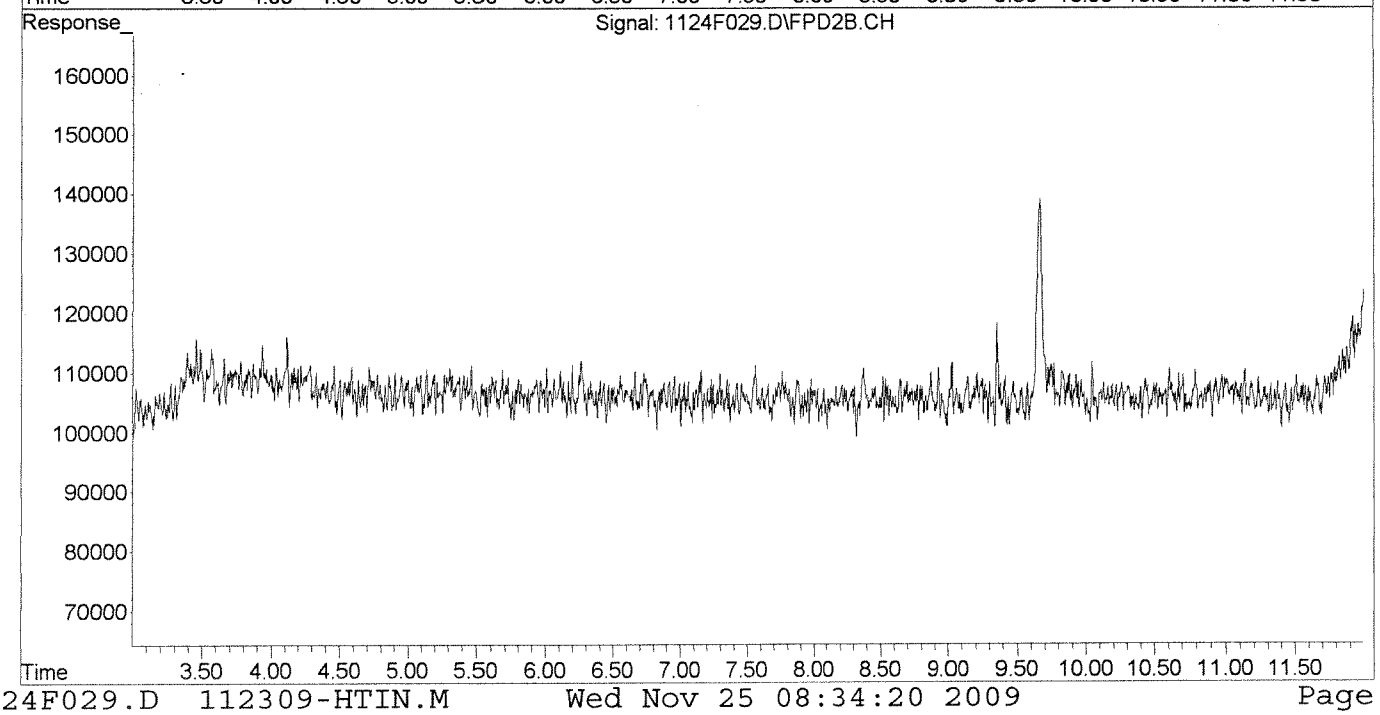
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F029.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112409A\1124F029.D\FPD2B.CH
Acq On : 24 Nov 2009 6:48 pm Operator: CCotnam
Sample : KWG0911153-5 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911153\5-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:32 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





Exception Report

Data File: J:\GC26\DATA\112409A\1124F037.D
Lab ID: KWG0911153-7
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 21:07
Date Quantitated: 11/25/2009 08:33
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 11/25/09

Secondary Review:

Exception Report

Data File: J:\GC26\DATA\112409A\1124F037.D\1124F037C.D
Lab ID: KWG0911153-7
RunType: IB
Matrix: MISC

Date Acquired: 11/24/2009 21:07
Date Quantitated: 11/25/2009 08:33
Batch ID: KWG0911153
Analysis Method: Krone
MethodJoinID: MJ133

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Tetra-n-butyltin	32.4	NA	25	

Primary Review: [illegible]

Secondary Review: [illegible]

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	MISC
Prod Code:	Butyltins BUTYL	**Collect Date:**		**Receive Date:**	11/24/2009

Analysis Lot:	KWG0911153	**Prep Lot:**		**Report Group:**	
Analysis Method:	Krone	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\GC26\METHODS\112309-HTIN.	**Calibration ID:**	CAL9045
Title:			
MB Ref:		**Method ID:**	MJ133
		Quant based on Method	

Data File #1:	J:\GC26\DATA\112409A\1124F037.D			**Instrument:**	GC26
Data File #2:	J:\GC26\DATA\112409A\1124F037.D\1124F037c.d			**Vial:**	5
Acqu Date:	11/24/2009 21:07	**Quant Date:**	11/25/2009 08:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG0911153-7				
Signal #1:	RTX-1	**Signal #2:**	RTX-35		

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tri-n-propyltin	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	18-95	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Tetra-n-butyltin			0	0	0.0000	0.0000			
Tri-n-butyltin			0d	0d	0.0000	0.0000			
Di-n-butyltin			0d	0d	0.0000	0.0000			
n-Butyltin			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F037.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112409A\1124F037.D\FPD2B.CH
Acq On : 24 Nov 2009 9:07 pm Operator: CCotnam
Sample : KWG0911153-7 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911153\7-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 08:27:04 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Initial Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds

Target Compounds

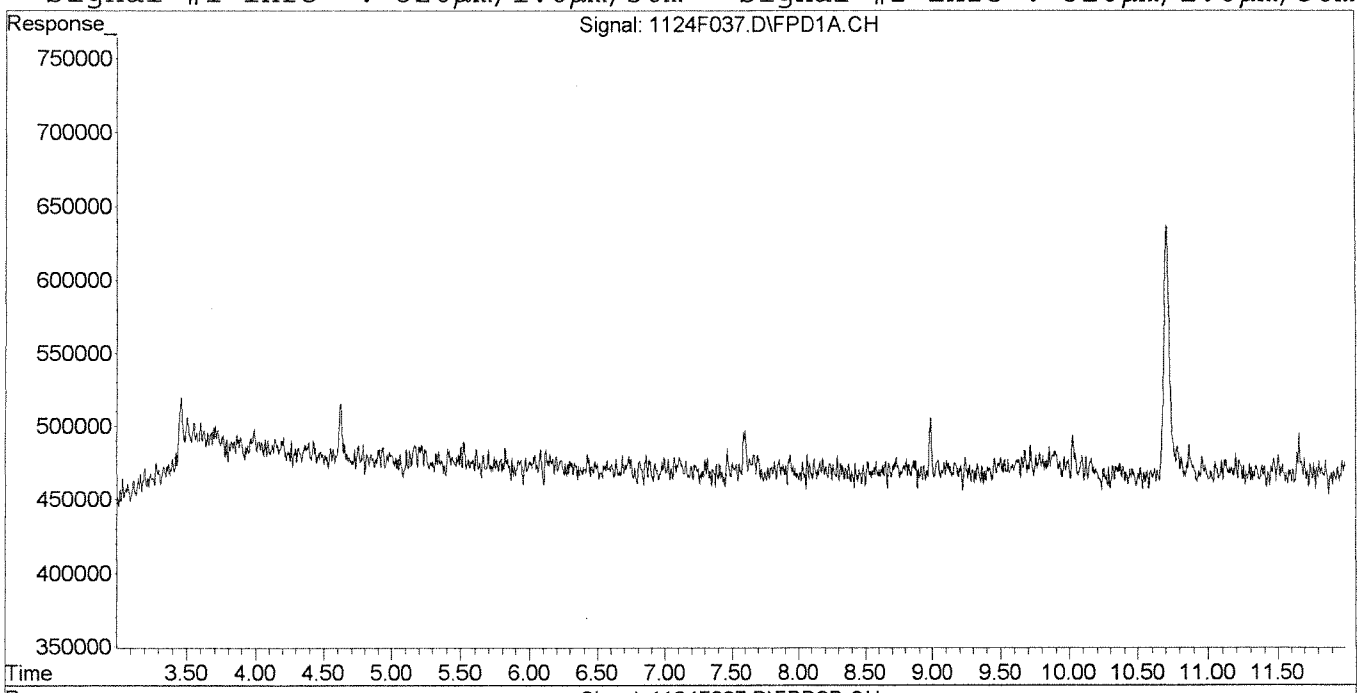
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

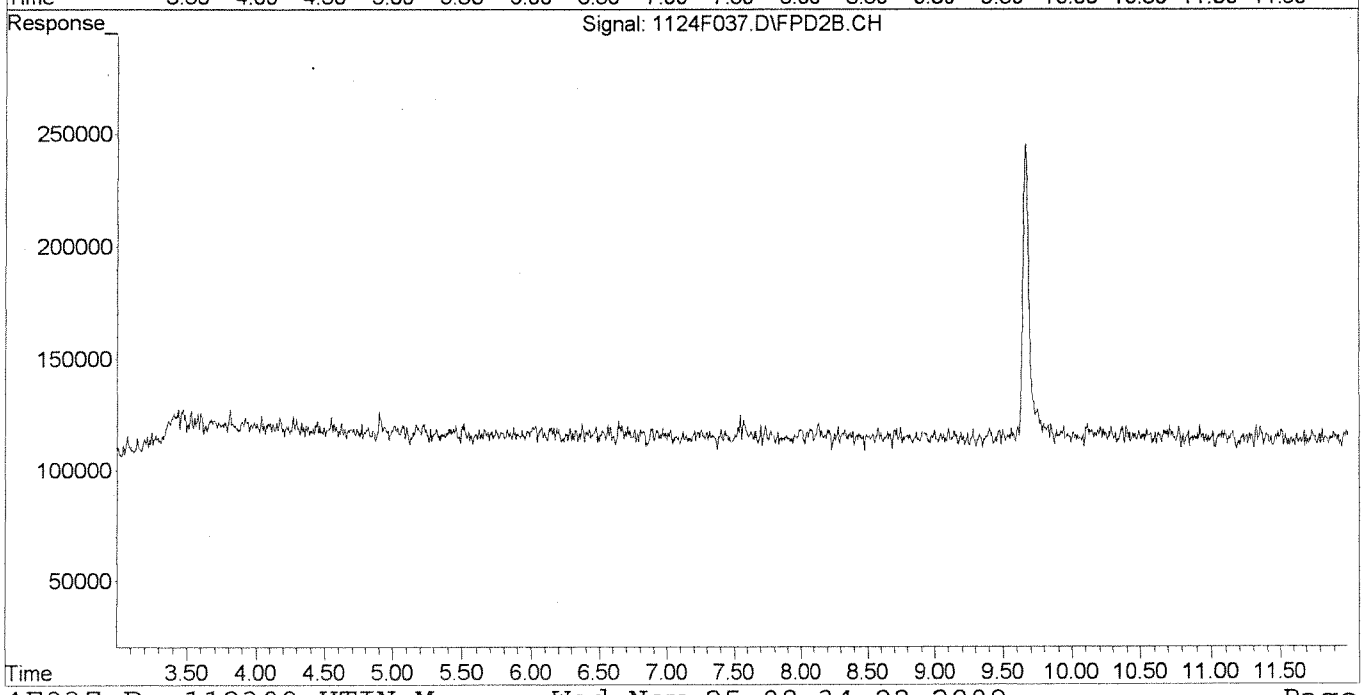
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC26\DATA\112409A\1124F037.D\FPD1A.CH Vial: 5
Signal #2 : J:\GC26\DATA\112409A\1124F037.D\FPD2B.CH
Acq On : 24 Nov 2009 9:07 pm Operator: CCotnam
Sample : KWG0911153-7 | IB | Butyltins BUTYLTINS Inst : GC26
Misc : SEMIVOA GC\W0911153\7-IB.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Nov 25 8:33 2009 Quant Results File: 112309-HTIN.RES

Quant Method : J:\GC26\METHODS\112309-HTIN.M (RTE Integrator)
Title : Hexylated Butyltins
Last Update : Tue Nov 24 07:22:43 2009
Response via : Multiple Level Calibration
DataAcq Meth : TINS2.M

Volume Inj. : 25 µL
Signal #1 Phase : RTX-1 Signal #2 Phase: RTX-35
Signal #1 Info : 320µm/1.0µm/30m Signal #2 Info : 320µm/1.0µm/30m





COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Windward Environmental, LLC	**Service Request No.:**	K0911038
Project:	Passaic RI/FS Sediment	**Date Received:**	11/12/2009
Sample Matrix:	Sediment		

CASE NARRATIVE ADDENDUM

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 III 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.

Addendum Comments

Organotin Compounds:
The Form I's were regenerated with a corrected Chemical Abstracts number to reflect the butyltin cation. The corrected ICAL, ICV and CCV forms were included.

ADDENDUM

Approved by_____ **Date** 4/5/11

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT01C	**Units:**	ug/Kg
Lab Code:	K0911038-001	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F032.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.23 g	**Column2:**	RTX-35
% Solids:	51.8		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.84	U	2.0	0.84	*
36643-28-4	Tri-n-butyltin	**6.5**		2.0	0.83	
14488-53-0	Di-n-butyltin	**30**		2.0	0.37	
78763-54-9	n-Butyltin	**18**		2.0	0.50	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	37	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT09H	**Units:**	ug/Kg
Lab Code:	K0911038-002	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F011.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.17 g	**Column2:**	RTX-35
% Solids:	82.5		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.53	U	1.3	0.53	
36643-28-4	Tri-n-butyltin	**1.2**	J	1.3	0.52	
14488-53-0	Di-n-butyltin	**1.6**	P	1.3	0.23	
78763-54-9	n-Butyltin	**1.1**	J	1.3	0.32	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	77	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT02C	**Units:**	ug/Kg
Lab Code:	K0911038-003	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F012.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.03 g	**Column2:**	RTX-35
% Solids:	34.1		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	1.3	U	3.0	1.3	
36643-28-4	Tri-n-butyltin	**31**		3.0	1.3	
14488-53-0	Di-n-butyltin	**49**		3.0	0.56	
78763-54-9	n-Butyltin	**12**		3.0	0.77	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	62	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT01E	**Units:**	ug/Kg
Lab Code:	K0911038-004	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F013.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.01 g	**Column2:**	RTX-35
% Solids:	64.4		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.69	U	1.6	0.69	
36643-28-4	Tri-n-butyltin	**8.2**		1.6	0.67	
14488-53-0	Di-n-butyltin	**14**		1.6	0.30	
78763-54-9	n-Butyltin	**5.9**		1.6	0.41	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	73	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT06C	**Units:**	ug/Kg
Lab Code:	K0911038-005	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F033.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.12 g	**Column2:**	RTX-35
% Solids:	46.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.94	U	2.2	0.94	*
36643-28-4	Tri-n-butyltin	**7.8**		2.2	0.92	
14488-53-0	Di-n-butyltin	**20**		2.2	0.41	
78763-54-9	n-Butyltin	**16**		2.2	0.56	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	28	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/09/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT06C-FD	**Units:**	ug/Kg
Lab Code:	K0911038-006	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F019.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.06 g	**Column2:**	RTX-35
% Solids:	45.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.96	U	2.2	0.96	
36643-28-4	Tri-n-butyltin	**13**		2.2	0.94	
14488-53-0	Di-n-butyltin	**38**		2.2	0.42	
78763-54-9	n-Butyltin	**13**		2.2	0.57	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	62	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT02D	**Units:**	ug/Kg
Lab Code:	K0911038-007	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F034.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.07 g	**Column2:**	RTX-35
% Solids:	31.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	1.4	U	3.2	1.4	*
36643-28-4	Tri-n-butyltin	**8.2**		3.2	1.4	
14488-53-0	Di-n-butyltin	**18**		3.2	0.60	
78763-54-9	n-Butyltin	**7.3**		3.2	0.82	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	29	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT03C	**Units:**	ug/Kg
Lab Code:	K0911038-008	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F021.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.08 g	**Column2:**	RTX-35
% Solids:	35.9		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	1.3	U	2.8	1.3	
36643-28-4	Tri-n-butyltin	**13**		2.8	1.2	
14488-53-0	Di-n-butyltin	**29**		2.8	0.53	
78763-54-9	n-Butyltin	**21**		2.8	0.73	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	57	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	11/10/2009
Sample Matrix:	Sediment	**Date Received:**	11/12/2009
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	LPRT09A	**Units:**	ug/Kg
Lab Code:	K0911038-009	**Basis:**	Dry
File ID:	J:\GC26\DATA\112409A\1124F035.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.39 g	**Column2:**	RTX-35
% Solids:	67.5		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.64	U	1.5	0.64	*
36643-28-4	Tri-n-butyltin	**5.5**		1.5	0.63	
14488-53-0	Di-n-butyltin	**6.7**		1.5	0.28	
78763-54-9	n-Butyltin	**1.1**	J	1.5	0.38	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	32	18-95	11/24/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Windward Environmental, LLC	**Service Request:**	K0911038
Project:	Passaic RI/FS Sediment/09.58.02.41	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	11/17/2009
		Date Analyzed:	11/24/2009

Butyltins (as cation)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG0910708-4	**Basis:**	Dry
File ID:	J:\GC26\DATA\112309B\1123F007.D	**Level:**	Low
Instrument ID:	GC26		
Extraction Method:	METHOD	**Extraction Lot:**	KWG0910708
Analysis Method:	Krone	**Calibration ID:**	CAL9045
		Column1:	RTX-1
Sample Amount:	20.39 g	**Column2:**	RTX-35
% Solids:	NA		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
1461-25-2	Tetra-n-butyltin	0.44	U	0.99	0.44	
36643-28-4	Tri-n-butyltin	0.43	U	0.99	0.43	
14488-53-0	Di-n-butyltin	0.19	U	0.99	0.19	
78763-54-9	n-Butyltin	0.26	U	0.99	0.26	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	61	18-95	11/24/09	Acceptable

Comments:

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

May 25, 2010 Analytical Report for Service Request No: K0911120

Jennifer Parker
Windward Environmental, LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119

RE: Passaic RI/FS Sediment/09.58.02.41

Dear Jennifer:

Enclosed is the revised report for the samples submitted to our laboratory on November 14, 2009. For your reference, these analyses have been assigned our service request number K0911120.

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 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lynda Huckestein
Client Services Manager

LH/lg

cc: Denise Shepperd, Trillium Inc., Wilmington, DE

REVISED
2:54 pm, May 26, 2010

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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.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL or LOQ but greater than or equal to the MDL or LOD.
U	The compound 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 LOD has been adjusted for dilution.
i	The MRL/MDL or LOQ/LOD has been elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated concentration that is less than the MRL or LOQ but greater than or equal to the MDL or LOD.
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 compound 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 LOD has been adjusted for any dilution or
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 has been 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.
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 concentration that is less than the MRL but greater than or equal to the MDL.
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 compound 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 LOD has been adjusted for any dilution or
i	The MRL/MDL or LOQ/LOD has been 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

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
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 - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Windward Environmental, LLC	**Service Request No.:**	K0911120
Project:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Sample Matrix:	Sediment		

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 III 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

Twenty four samples were received for analysis at Columbia Analytical Services on 11/14/2009. 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.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Aluminum and Iron for samples LPRT01E and LPRH11A were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Thallium in sample LPRT01E was outside the normal CAS control limits (32% RPD versus a control limit of 20%). The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

Approved by _____ **Date** 12/21/09

Chain of Custody Documentation

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1(091120

Project/Client Name:	Passaic RI/FS Sediment	Ship to:	Columbia Analytical # LPR-CA111309a-1
Project Number:	09.58.02.41	Attn:	Lynda Huckestein — Shipping Date: 11.13.09
Contact Name:	Jennifer Parker	Shipper:	FedEx — Airbill Number: 8656 1490 0029
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	T Do — Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required): Butyltins (Krone)	Cyanide (9012A)	TKN (ASTM D3590-89-02)	Phosphorus (365.3 Mod)	Metals (ICP,6010B)	Metals (ICP/MS, 6020)	Metals (Se, 7742)				Comments / Instructions [Jar tag number(s)]
11/09/09	1305	LPRT02C	1	Sed					x	x	x				
11/09/09	1151	LPRT01E	1	Sed					x	x	x				
11/09/09	1501	LPRT06C	1	Sed					x	x	x				
11/09/09	1501	LPRT06C-FD	1	Sed					x	x	x				
11/10/09	0952	LPRT02D	1	Sed					x	x	x				
11/10/09	1103	LPRT03C	1	Sed					x	x	x				
11/10/09	0929	LPRT09A	1	Sed					x	x	x				
11/11/09	0800	LPRT04F	2	Sed	x	x	x	x	x	x	x				
11/11/09	1047	LPRT03F	2	Sed	x	x	x	x	x	x	x				
11/11/09	0834	LPRT04C	2	Sed	x	x	x	x	x	x	x				
		Total Number of Containers	13	Purchase Order / Statement of Work #											

1) Released by:	2) Released by:	3) Released by:	4) Released by:	5) Released by:
Company: Windward Environmental	Company:	Company:	Company:	Company:
Date/Time: 11.13.09/0900	Date/Time:	Date/Time:	Date/Time:	Date/Time:
Rec'd by: Fran Allan	Rec'd by:	Rec'd by:	Rec'd by:	Rec'd by:
Company: CAS	Company:	Company:	Company:	Company:
Date/Time: 11/14/09 0850	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

CHAIN-OF-CUSTODY/TEST REQUEST FORM

K0911120

Project/Client Name:	Passaic RI/FS Sediment	Ship to:	Columbia Analytical # LPR-CA111309a-2
Project Number:	09.58.02.41	Attn:	Lynda Huckestein — Shipping Date: 11.13.09
Contact Name:	Jennifer Parker	Shipper:	FedEx — Airbill Number: 8656 1490 0029
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	T Do — Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Butyltins (Krone)	Cyanide (9012A)	TKN (ASTM D3590-89-02)	Phosphorus (365.3 Mod)	Metals (ICP,6010B)	Metals (ICP/MS, 6020)	Metals (Se, 7742)				Comments / Instructions [Jar tag number(s)]
11/11/09	1043	LPRT05A	2	Sed	x	x	x	x	x	x	x				
11/11/09	0925	LPRH05B	2	Sed	x	x	x	x	x	x	x				
11/11/09	1453	LPRH09B	2	Sed	x	x	x	x	x	x	x				
11/12/09	1105	LPRT03G	2	Sed	x	x	x	x	x	x	x				
11/12/09	0909	LPRH13B	2	Sed	x	x	x	x	x	x	x				
11/12/09	0928	LPRH05A	2	Sed	x	x	x	x	x	x	x				
11/12/09	1009	LPRH07B	2	Sed	x	x	x	x	x	x	x				
11/12/09	1046	LPRH10A	2	Sed	x	x	x	x	x	x	x				
11/12/09	1128	LPRH11A	2	Sed	x	x	x	x	x	x	x				
11/12/09	1201	LPRH11B	2	Sed	x	x	x	x	x	x	x				
		Total Number of Containers	20	Purchase Order / Statement of Work #											

Test(s) Requested (check test(s) required)

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 11.13.09/0900	Date/Time:	Date/Time:	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **CAS**	Company:	Company:	Company:	Company:
Date/Time: 11/14/09 0850	Date/Time:	Date/Time:	Date/Time:	Date/Time:

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

1C0911120

Project/Client Name:	Passaic RI/FS Sediment	Ship to:	Columbia Analytical # LPR-CA111309b-1
Project Number:	09.58.02.41	Attn:	Lynda Huckestein — Shipping Date: 11.13.09
Contact Name:	Jennifer Parker	Shipper:	FedEx — Airbill Number: 8656 1490 0029
Sampled By:	Thai Do, Angelita Rodriquez	Form filled out by:	T Do — Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Butyltins (Krone)	Cyanide (9012A)	TKN (ASTM D3590-89-02)	Phosphorus (365.3 Mod)	Metals (ICP,6010B)	Metals (ICP/MS, 6020)	Metals (Se, 7742)				Comments / Instructions [Jar tag number(s)]
					Test(s) Requested (check test(s) required)										
11/12/09	1239	LPRH16A	2	Sed	x	x	x	x	x	x	x				
11/12/09	1433	LPRH12B	2	Sed	x	x	x	x	x	x	x				
11/11/09	1430	LPRT05A-RB	4	Water	x	x	x	x	x	x	x				
11/11/09	1515	LPR-RW	4	Water	x	x	x	x	x	x	x				
		Total Number of Containers	12	Purchase Order / Statement of Work #											

1) **Released by:**	2) **Released by:**	3) **Released by:**	4) **Released by:**	5) **Released by:**
Company: **Windward Environmental**	Company:	Company:	Company:	Company:
Date/Time: 11.13.09/0900	Date/Time:	Date/Time:	Date/Time:	Date/Time:
Rec'd by:	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**	**Rec'd by:**
Company: **CAS**	Company:	Company:	Company:	Company:
Date/Time: 11/14/09 0850	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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Wind Ward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC LH

Client / Project: Windward Service Request *K09* 11120

Received: 11/14/09 Opened: 11/14/09 By: Brad

1. Samples were received via? *US Mail* *Fed Ex* *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front, 1 side
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: 8677 8337 3056 NA Y N
   8677 8337 3067
5. **Temperature of cooler(s) upon receipt (°C):** 1.8 5.3 1.0
   Temperature Blank (°C): 2.6 1.8 1.0
   Thermometer ID: 285 273 269
6. If applicable, list Chain of Custody Numbers:
7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* NA Y N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA Y N
13. Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** NA Y N
16. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: _____

Total Solids

ice Request #: K091120 Method: EPA METHOD 160.3 MODIFIED

ysis For: Total Solids

+tare

an ID	Lab Code	Wet Weight (g)	Tare (g)	Tare + Dry Wt.(g)	Dry Weight (g)	% Total Solids
	K091120-1	10.15	1.32	5.15		
	-2	10.03	1.33	7.73		
	-3	10.23	1.32	6.58		
	-4	10.03	1.32	6.40		
	-5	10.10	1.32	4.88		
	-6	10.05	1.32	5.22		
	-7	10.08	1.33	8.69 TN 11/17/09		
	-8	10.02	1.31	8.04		
	-9	10.08	1.31	5.24 TN 11/17/09		
	-10	10.15	1.31	6.38		
	-11	10.15	1.32	4.99		
	-12	10.21	1.32	5.55		
	-13	10.29	1.32	4.95		
	-14	10.12	1.31	4.38		
	-15	10.23	1.31	5.22		
	-16	10.04	1.32	5.84		
	-17	10.32	1.32	6.53		
	-18	10.13	1.32	6.28		
	-19	10.45	1.32	8.69		
	-20	10.15	1.31	8.65		
	-21	~~9.69~~ 9.90	1.32	8.16		
	-22	9.90	1.33	6.67		
	-22d	~~9.90~~ 9.49	1.31	6.52		

Temp : Time In : Time Out :

nents: Balance #16

$\bar{x}$ RPD =

$\bar{x}$ RPD =

$\bar{x}$ RPD =

yst: TM/ Date: 11/16/09

ewed By: Date: 11/18/09

① 10.27 11/16/09 TM. TE.

TSGEN.BCH

Client: Windward Environmental, LLC
Project: Passaic RI/FS Sedime/09.58.02.41
Sample Matrix: Sediment

Service Request: K0911120

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
LPRT02C	K0911120-001	11/09/2009	11/14/2009	11/17/2009	43.4	
LPRT01E	K0911120-002	11/09/2009	11/14/2009	11/17/2009	73.6	
LPRT06C	K0911120-003	11/09/2009	11/14/2009	11/17/2009	59.0	
LPRT06C-FD	K0911120-004	11/09/2009	11/14/2009	11/17/2009	58.3	
LPRT02D	K0911120-005	11/10/2009	11/14/2009	11/17/2009	40.5	
LPRT03C	K0911120-006	11/10/2009	11/14/2009	11/17/2009	44.7	
LPRT09A	K0911120-007	11/10/2009	11/14/2009	11/17/2009	84.1	
LPRT04F	K0911120-008	11/11/2009	11/14/2009	11/17/2009	77.3	
LPRT03F	K0911120-009	11/11/2009	11/14/2009	11/17/2009	44.8	
LPRT04C	K0911120-010	11/11/2009	11/14/2009	11/17/2009	57.4	
LPRT05A	K0911120-011	11/11/2009	11/14/2009	11/17/2009	41.6	
LPRH05B	K0911120-012	11/11/2009	11/14/2009	11/17/2009	47.6	
LPRH09B	K0911120-013	11/11/2009	11/14/2009	11/17/2009	40.5	
LPRT03G	K0911120-014	11/12/2009	11/14/2009	11/17/2009	34.8	
LPRH13B	K0911120-015	11/12/2009	11/14/2009	11/17/2009	43.8	
LPRH05A	K0911120-016	11/12/2009	11/14/2009	11/17/2009	51.8	
LPRH07B	K0911120-017	11/12/2009	11/14/2009	11/17/2009	57.9	
LPRH10A	K0911120-018	11/12/2009	11/14/2009	11/17/2009	56.3	
LPRH11A	K0911120-019	11/12/2009	11/14/2009	11/17/2009	80.7	
LPRH11B	K0911120-020	11/12/2009	11/14/2009	11/17/2009	83.0	
LPRH16A	K0911120-021	11/12/2009	11/14/2009	11/17/2009	76.4	
LPRH12B	K0911120-022	11/12/2009	11/14/2009	11/17/2009	62.3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project:	Passaic RI/FS Sedime/09.58.02.41	**Date Collected:**	11/12/2009
Sample Matrix:	Sediment	**Date Received:**	11/14/2009
		Date Analyzed:	11/17/2009

Duplicate Sample Summary

Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
LPRH12B	K0911120-022	62.3	62.2	62.3	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

179919

Group ID:	KWG0910843				
Analyst:	SArwood			**Reviewed By:**	BH
Date Acquired:	11/17/2009 17:15	**Oven TempStart:**	105 DEG C	**Date Reviewed:**	11/18/09
Date Completed:	11/18/2009 08:00	**Oven TempEnd:**	105 DEG		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0910733-007	Composite	PAPERBOA	1.32g	2.90g	2.88g	98.7		
2	K0910788-008	Composite	PAPERBOA	1.33g	3.37g	3.32g	97.5		
3	K0911043-001	0910069-1	SOIL	1.29g	5.00g	4.68g	91.4		
4	K0911048-001	PH-01-01-101109	SEDIMENT	1.31g	9.21g	5.39g	51.6		
5	K0911048-002	SR-01-01-121109	SEDIMENT	1.32g	10.04g	8.30g	80.0		
6	K0911077-001	TL:SB-3:10:348	SOIL	1.30g	6.15g	4.86g	73.4		
7	K0911077-002	TL:SB-3:5:346	SOIL	1.30g	6.15g	4.08g	57.3		
8	K0911077-003	TL:SB-2:10:342	SOIL	1.31g	5.96g	4.61g	71.0		
9	K0911077-004	TL:SB-2:25:345	SOIL	1.30g	6.83g	6.18g	88.2		
10	K0911077-005	TL:SB-3:5:347	SOIL	1.30g	5.82g	4.96g	81.0		
11	K0911077-006	TL:SB-2:20:344	SOIL	1.29g	6.82g	6.14g	87.7		
12	K0911100-001	Bag Residue	SOIL	1.32g	5.96g	3.79g	53.2		
13	K0911115-006	BE120:SB-8:25:404	SOIL	1.32g	5.06g	4.55g	86.4		
14	K0911115-007	BE120:SB-8:7.5:403	SOIL	1.33g	5.00g	3.96g	71.7		
15	K0911115-009	B12:SB-9:7.5:397	SOIL	1.33g	5.19g	4.16g	73.3		
16	K0911115-010	B12:SB-9:25:398	SOIL	1.32g	5.19g	4.88g	92.0		
17	K0911115-011	B12:SB-10:7.5:399	SOIL	1.32g	5.01g	4.04g	73.7		
18	K0911115-012	B12:SB-10:25:400	SOIL	1.33g	5.05g	4.65g	89.2		
19	K0911115-013	B12:SB-11:7.5:401	SOIL	1.32g	5.02g	4.06g	74.1		
20	K0911115-014	B12:SB-11:25:402	SOIL	1.32g	5.00g	4.63g	89.9		
21	K0911115-015	B12:SB-9:7.5:396	SOIL	1.32g	5.12g	4.10g	73.2		
22	K0911120-001	LPRT02C	SEDIMENT	1.32g	10.15g	5.15g	43.4		
23	K0911120-002	LPRT01E	SEDIMENT	1.33g	10.03g	7.73g	73.6		
24	K0911120-003	LPRT06C	SEDIMENT	1.32g	10.23g	6.58g	59.0		
25	K0911120-004	LPRT06C-FD	SEDIMENT	1.32g	10.03g	6.40g	58.3		

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Group ID:	KWG0910843				
Analyst:	SArwood			**Reviewed By:**	BH
Date Acquired:	11/17/2009 17:15	**Oven TempStart:**	105 DEG C	**Date Reviewed:**	11/18/09
Date Completed:	11/18/2009 08:00	**Oven TempEnd:**	105 DEG		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
26	K0911120-005	LPRT02D	SEDIMENT	1.32g	10.10g	4.88g	40.5		
27	K0911120-006	LPRT03C	SEDIMENT	1.32g	10.05g	5.22g	44.7		
28	K0911120-007	LPRT09A	SEDIMENT	1.33g	10.08g	8.69g	84.1		
29	K0911120-008	LPRT04F	SEDIMENT	1.31g	10.02g	8.04g	77.3		
30	K0911120-009	LPRT03F	SEDIMENT	1.31g	10.08g	5.24g	44.8		
31	K0911120-010	LPRT04C	SEDIMENT	1.31g	10.15g	6.38g	57.4		
32	K0911120-011	LPRT05A	SEDIMENT	1.32g	10.15g	4.99g	41.6		
33	K0911120-012	LPRH05B	SEDIMENT	1.32g	10.21g	5.55g	47.6		
34	K0911120-013	LPRH09B	SEDIMENT	1.32g	10.29g	4.95g	40.5		
35	K0911120-014	LPRT03G	SEDIMENT	1.31g	10.12g	4.38g	34.8		
36	K0911120-015	LPRH13B	SEDIMENT	1.31g	10.23g	5.22g	43.8		
37	K0911120-016	LPRH05A	SEDIMENT	1.32g	10.04g	5.84g	51.8		
38	K0911120-017	LPRH07B	SEDIMENT	1.32g	10.32g	6.53g	57.9		
39	K0911120-018	LPRH10A	SEDIMENT	1.32g	10.13g	6.28g	56.3		
40	K0911120-019	LPRH11A	SEDIMENT	1.32g	10.45g	8.69g	80.7		
41	K0911120-020	LPRH11B	SEDIMENT	1.31g	10.15g	8.65g	83.0		
42	K0911120-021	LPRH16A	SEDIMENT	1.32g	10.27g	8.16g	76.4		
43	K0911120-022	LPRH12B	SEDIMENT	1.33g	9.90g	6.67g	62.3		
44	K0911121-001	LPRT04F	SEDIMENT	1.31g	5.05g	2.71g	37.4		
45	K0911121-002	LPRT03F	SEDIMENT	1.30g	5.06g	2.61g	34.8		
46	K0911121-003	LPRT04C	SEDIMENT	1.32g	5.29g	4.62g	83.1		
47	K0911121-004	LPRT05A	SEDIMENT	1.30g	5.02g	2.52g	32.8		
48	K0911121-005	LPRH05B	SEDIMENT	1.30g	5.14g	2.99g	44.0		
49	K0911121-006	LPRH09B	SEDIMENT	1.30g	5.09g	2.40g	29.0		
50	K0911121-007	LPRT03G	SEDIMENT	1.30g	5.05g	2.50g	32.0		
51	K0911121-008	LPRH13B	SEDIMENT	1.29g	5.02g	2.76g	39.4		
52	K0911121-009	LPRH05A	SEDIMENT	1.32g	5.16g	2.77g	37.8		
53	K0911121-010	LPRH07B	SEDIMENT	1.32g	5.03g	2..68g	18.3		
54	K0911121-011	LPRH10A	SEDIMENT	1.32g	5.10g	2.58g	33.3		
55	K0911121-012	LPRH11A	SEDIMENT	1.32g	5.04g	4.04g	73.1		
56	K0911121-013	LPRH11B	SEDIMENT	1.30g	5.02g	3.77g	66.4		

Group ID:	KWG0910843				
Analyst:	SArwood			**Reviewed By:**	BH
Date Acquired:	11/17/2009 17:15	**Oven TempStart:**	105 DEG C	**Date Reviewed:**	11/18/09
Date Completed:	11/18/2009 08:00	**Oven TempEnd:**	105 DEG		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
57	K0911121-014	LPRH16A	SEDIMENT	1.30g	5.13g	4.16g	74.7		
58	K0911121-015	LPRH12B	SEDIMENT	1.30g	5.19g	3.38g	53.5		
59	KWG0910843-1	Duplicate Client Sample	SOIL	1.31g	5.10g	4.11g	73.9	K0911115-013	
60	KWG0910843-2	Duplicate Client Sample	SOIL	1.30g	5.00g	4.71g	92.2	K0911043-001	
61	KWG0910843-3	Duplicate Client Sample	SOIL	1.30g	6.13g	4.72g	70.8	K0911077-003	
62	KWG0910843-4	Duplicate Client Sample	SEDIMENT	1.33g	9.45g	5.55g	52.0	K0911048-001	
63	KWG0910843-5	Duplicate Client Sample	SEDIMENT	1.29g	5.06g	2.75g	38.7	K0911121-001	
64	KWG0910843-6	Duplicate Client Sample	SEDIMENT	1.30g	5.14g	3.29g	51.8	K0911121-015	
65	KWG0910843-7	Duplicate Client Sample	SEDIMENT	1.31g	9.69g	6.52g	62.2	K0911120-022	
66	KWG0910843-8	Duplicate Client Sample	PAPERBOA	1.33g	2.94g	2.91g	98.1	K0910733-007	
67	KWG0910843-9	Duplicate Client Sample	PAPERBOA	1.33g	3.64g	3.58g	97.4	K0910788-008	

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Metals

Columbia Analytical Services

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INORGANIC ANALYSIS DATA PACKAGE

Client: Windward Environmental, LLC
Project Name: Passaic RI/FS Sediment
Project No.: 09.58.02.41

Service Request: K0911120

Sample Name:	Lab Code:
LPRT02C	K0911120-001
LPRT01E	K0911120-002
LPRT01ED	K0911120-002D
LPRT01ES	K0911120-002S
LPRT06C	K0911120-003
LPRT06C-FD	K0911120-004
LPRT02D	K0911120-005
LPRT03C	K0911120-006
LPRT09A	K0911120-007
LPRT04F	K0911120-008
LPRT03F	K0911120-009
LPRT04C	K0911120-010
LPRT05A	K0911120-011
LPRH05B	K0911120-012
LPRH09B	K0911120-013
LPRT03G	K0911120-014
LPRH13B	K0911120-015
LPRH05A	K0911120-016
LPRH07B	K0911120-017
LPRH10A	K0911120-018
LPRH11A	K0911120-019
LPRH11AD	K0911120-019D
LPRH11AS	K0911120-019S
LPRH11B	K0911120-020
LPRH16A	K0911120-021
LPRH12B	K0911120-022
Method Blank	K0911120-MB
Method Blank	K0911120-MB2

Comments:

Approved By: _____ **Date:** 12/18/09

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT02C **Lab Code:** K0911120-001

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.2	2.0	11/24/09	12/01/09	10700		
Antimony	6020	0.052	0.009	5.0	11/24/09	12/07/09	1.010		
Arsenic	6020	0.51	0.05	5.0	11/24/09	12/07/09	7.30		
Barium	6010B	2.1	0.3	2.0	11/24/09	12/01/09	86.1		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.542		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	2.390		
Calcium	6010B	10	2.1	2.0	11/24/09	12/01/09	6230		
Chromium	6010B	2.1	0.4	2.0	11/24/09	12/01/09	113		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	8.090		
Copper	6010B	2.1	0.6	2.0	11/24/09	12/01/09	165		
Iron	6010B	4.1	0.3	2.0	11/24/09	12/01/09	34000		
Lead	6010B	20.7	3.1	2.0	11/24/09	12/01/09	176		
Magnesium	6010B	4.13	0.04	2.0	11/24/09	12/01/09	7030		
Manganese	6010B	2.07	0.04	2.0	11/24/09	12/01/09	359		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	24.7		
Potassium	6010B	207	5.2	2.0	11/24/09	12/01/09	1880		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.76		
Silver	6020	0.021	0.008	5.0	11/24/09	12/07/09	2.150		
Sodium	6010B	20.7	4.1	2.0	11/24/09	12/01/09	6440		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.173		*
Titanium	6010B	10.3	0.5	2.0	11/24/09	12/01/09	428		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	24.8		
Zinc	6010B	2.1	0.3	2.0	11/24/09	12/01/09	449		

% Solids: 43.4

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT01E **Lab Code:** K0911120-002

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.8	2.0	11/24/09	12/01/09	5360		
Antimony	6020	0.057	0.010	5.0	11/24/09	12/07/09	0.557		
Arsenic	6020	0.55	0.06	5.0	11/24/09	12/07/09	13.5		
Barium	6010B	2.3	0.3	2.0	11/24/09	12/01/09	45.8		
Beryllium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.286		
Cadmium	6020	0.022	0.004	5.0	11/24/09	12/07/09	0.771		
Calcium	6010B	11	2.3	2.0	11/24/09	12/01/09	1580		
Chromium	6010B	2.3	0.5	2.0	11/24/09	12/01/09	67.1		
Cobalt	6020	0.022	0.001	5.0	11/24/09	12/07/09	4.280		
Copper	6010B	2.3	0.7	2.0	11/24/09	12/01/09	145		
Iron	6010B	4.5	0.3	2.0	11/24/09	12/01/09	13600		
Lead	6010B	22.6	3.4	2.0	11/24/09	12/01/09	87.8		
Magnesium	6010B	4.53	0.05	2.0	11/24/09	12/01/09	3140		
Manganese	6010B	2.26	0.05	2.0	11/24/09	12/01/09	150		
Nickel	6020	0.22	0.02	5.0	11/24/09	12/07/09	16.5		
Potassium	6010B	226	5.7	2.0	11/24/09	12/01/09	1070		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.17		
Silver	6020	0.023	0.009	5.0	11/24/09	12/07/09	0.918		
Sodium	6010B	22.6	4.5	2.0	11/24/09	12/01/09	2660		
Thallium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.179		*
Titanium	6010B	11.3	0.6	2.0	11/24/09	12/01/09	229		
Vanadium	6020	0.22	0.02	5.0	11/24/09	12/07/09	11.1		
Zinc	6010B	2.3	0.3	2.0	11/24/09	12/01/09	177		

% Solids: 73.6

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT06C **Lab Code:** K0911120-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.0	5.4	2.0	11/24/09	12/01/09	5130		
Antimony	6020	0.045	0.008	5.0	11/24/09	12/07/09	0.715		
Arsenic	6020	0.46	0.05	5.0	11/24/09	12/07/09	3.27		
Barium	6010B	1.8	0.3	2.0	11/24/09	12/01/09	73.1		
Beryllium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.280		
Cadmium	6020	0.019	0.004	5.0	11/24/09	12/07/09	1.520		
Calcium	6010B	9.0	1.8	2.0	11/24/09	12/01/09	3780		
Chromium	6010B	1.8	0.4	2.0	11/24/09	12/01/09	54.4		
Cobalt	6020	0.019	0.001	5.0	11/24/09	12/07/09	4.970		
Copper	6010B	1.8	0.5	2.0	11/24/09	12/01/09	95.3		
Iron	6010B	3.6	0.3	2.0	11/24/09	12/01/09	14400		
Lead	6010B	18.0	2.7	2.0	11/24/09	12/01/09	204		
Magnesium	6010B	3.61	0.04	2.0	11/24/09	12/01/09	3270		
Manganese	6010B	1.80	0.04	2.0	11/24/09	12/01/09	191		
Nickel	6020	0.19	0.02	5.0	11/24/09	12/07/09	17.8		
Potassium	6010B	180	4.5	2.0	11/24/09	12/01/09	766		
Selenium	7742	0.09	0.03	2.0	11/24/09	12/16/09	0.27		
Silver	6020	0.018	0.007	5.0	11/24/09	12/07/09	0.987		
Sodium	6010B	18.0	3.6	2.0	11/24/09	12/01/09	1880		
Thallium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.108		*
Titanium	6010B	9.0	0.5	2.0	11/24/09	12/01/09	273		
Vanadium	6020	0.19	0.02	5.0	11/24/09	12/07/09	13.2		
Zinc	6010B	1.8	0.3	2.0	11/24/09	12/01/09	269		

% Solids: 59.0

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT06C-FD **Lab Code:** K0911120-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.2	5.5	2.0	11/24/09	12/01/09	5610		
Antimony	6020	0.046	0.008	5.0	11/24/09	12/07/09	1.100		
Arsenic	6020	0.46	0.05	5.0	11/24/09	12/07/09	2.93		
Barium	6010B	1.8	0.3	2.0	11/24/09	12/01/09	83.1		
Beryllium	6020	0.018	0.003	5.0	11/24/09	12/07/09	0.239		
Cadmium	6020	0.018	0.004	5.0	11/24/09	12/07/09	1.430		
Calcium	6010B	9.2	1.8	2.0	11/24/09	12/01/09	3830		
Chromium	6010B	1.8	0.4	2.0	11/24/09	12/01/09	54.9		
Cobalt	6020	0.018	0.001	5.0	11/24/09	12/07/09	4.520		
Copper	6010B	1.8	0.6	2.0	11/24/09	12/01/09	95.0		
Iron	6010B	3.7	0.3	2.0	11/24/09	12/01/09	15400		
Lead	6010B	18.3	2.8	2.0	11/24/09	12/01/09	179		
Magnesium	6010B	3.67	0.04	2.0	11/24/09	12/01/09	3470		
Manganese	6010B	1.83	0.04	2.0	11/24/09	12/01/09	206		
Nickel	6020	0.18	0.02	5.0	11/24/09	12/07/09	13.6		
Potassium	6010B	183	4.6	2.0	11/24/09	12/01/09	806		
Selenium	7742	0.09	0.03	2.0	11/24/09	12/16/09	0.30		
Silver	6020	0.018	0.007	5.0	11/24/09	12/07/09	1.360		
Sodium	6010B	18.3	3.7	2.0	11/24/09	12/01/09	1980		
Thallium	6020	0.018	0.003	5.0	11/24/09	12/07/09	0.099		*
Titanium	6010B	9.2	0.5	2.0	11/24/09	12/01/09	296		
Vanadium	6020	0.18	0.02	5.0	11/24/09	12/07/09	11.7		
Zinc	6010B	1.8	0.3	2.0	11/24/09	12/01/09	316		

% Solids: 58.3

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/10/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT02D **Lab Code:** K0911120-005

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.6	2.0	11/24/09	12/01/09	11600		
Antimony	6020	0.055	0.010	5.0	11/24/09	12/07/09	0.579		
Arsenic	6020	0.56	0.06	5.0	11/24/09	12/07/09	9.57		
Barium	6010B	2.2	0.3	2.0	11/24/09	12/01/09	86.4		
Beryllium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.590		
Cadmium	6020	0.022	0.004	5.0	11/24/09	12/07/09	2.030		
Calcium	6010B	11	2.2	2.0	11/24/09	12/01/09	4930		
Chromium	6010B	2.2	0.4	2.0	11/24/09	12/01/09	105		
Cobalt	6020	0.022	0.001	5.0	11/24/09	12/07/09	8.820		
Copper	6010B	2.2	0.7	2.0	11/24/09	12/01/09	140		
Iron	6010B	4.4	0.3	2.0	11/24/09	12/01/09	28000		
Lead	6010B	21.9	3.3	2.0	11/24/09	12/01/09	146		
Magnesium	6010B	4.37	0.04	2.0	11/24/09	12/01/09	7700		
Manganese	6010B	2.19	0.04	2.0	11/24/09	12/01/09	410		
Nickel	6020	0.22	0.02	5.0	11/24/09	12/07/09	28.8		
Potassium	6010B	219	5.5	2.0	11/24/09	12/01/09	2180		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.49		
Silver	6020	0.022	0.009	5.0	11/24/09	12/07/09	2.010		
Sodium	6010B	21.9	4.4	2.0	11/24/09	12/01/09	6770		
Thallium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.171		*
Titanium	6010B	10.9	0.5	2.0	11/24/09	12/01/09	411		
Vanadium	6020	0.22	0.02	5.0	11/24/09	12/07/09	26.6		
Zinc	6010B	2.2	0.3	2.0	11/24/09	12/01/09	364		

% Solids: 40.5

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/10/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT03C **Lab Code:** K0911120-006

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.1	2.0	11/24/09	12/01/09	8950		
Antimony	6020	0.051	0.009	5.0	11/24/09	12/07/09	0.852		
Arsenic	6020	0.50	0.05	5.0	11/24/09	12/07/09	5.16		
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	86.2		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.385		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	1.880		
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	4410		
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	82.2		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	6.080		
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	129		
Iron	6010B	4.1	0.3	2.0	11/24/09	12/01/09	22700		
Lead	6010B	20.3	3.1	2.0	11/24/09	12/01/09	163		
Magnesium	6010B	4.07	0.04	2.0	11/24/09	12/01/09	6070		
Manganese	6010B	2.03	0.04	2.0	11/24/09	12/01/09	348		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	19.2		
Potassium	6010B	203	5.1	2.0	11/24/09	12/01/09	1540		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.63		
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	1.840		
Sodium	6010B	20.3	4.1	2.0	11/24/09	12/01/09	5540		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.125		*
Titanium	6010B	10.2	0.5	2.0	11/24/09	12/01/09	369		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	18.6		
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	370		

% Solids: 44.7

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/10/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT09A **Lab Code:** K0911120-007

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.7	2.0	11/24/09	12/01/09	4780		
Antimony	6020	0.056	0.010	5.0	11/24/09	12/07/09	0.745		
Arsenic	6020	0.55	0.06	5.0	11/24/09	12/07/09	4.26		
Barium	6010B	2.2	0.3	2.0	11/24/09	12/01/09	83.1		
Beryllium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.225		
Cadmium	6020	0.022	0.004	5.0	11/24/09	12/07/09	1.580		
Calcium	6010B	11	2.2	2.0	11/24/09	12/01/09	5560		
Chromium	6010B	2.2	0.4	2.0	11/24/09	12/01/09	69.2		
Cobalt	6020	0.022	0.001	5.0	11/24/09	12/07/09	4.170		
Copper	6010B	2.2	0.7	2.0	11/24/09	12/01/09	97.1		
Iron	6010B	4.5	0.3	2.0	11/24/09	12/01/09	14500		
Lead	6010B	22.2	3.3	2.0	11/24/09	12/01/09	168		
Magnesium	6010B	4.45	0.04	2.0	11/24/09	12/01/09	2210		
Manganese	6010B	2.22	0.04	2.0	11/24/09	12/01/09	180		
Nickel	6020	0.22	0.02	5.0	11/24/09	12/07/09	16.3		
Potassium	6010B	222	5.6	2.0	11/24/09	12/01/09	554		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.29		
Silver	6020	0.022	0.009	5.0	11/24/09	12/07/09	1.050		
Sodium	6010B	22.2	4.5	2.0	11/24/09	12/01/09	359		
Thallium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.070		*
Titanium	6010B	11.1	0.6	2.0	11/24/09	12/01/09	296		
Vanadium	6020	0.22	0.02	5.0	11/24/09	12/07/09	15.1		
Zinc	6010B	2.2	0.3	2.0	11/24/09	12/01/09	226		

% Solids: 84.1

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT04F **Lab Code:** K0911120-008

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.0	2.0	11/24/09	12/01/09	7380		
Antimony	6020	0.050	0.009	5.0	11/24/09	12/07/09	0.738		
Arsenic	6020	0.54	0.05	5.0	11/24/09	12/07/09	4.71		
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	58.0		
Beryllium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.423		
Cadmium	6020	0.021	0.004	5.0	11/24/09	12/07/09	1.100		
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	3390		
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	58.8		
Cobalt	6020	0.021	0.001	5.0	11/24/09	12/07/09	6.060		
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	90.5		
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	19100		
Lead	6010B	20.1	3.0	2.0	11/24/09	12/01/09	114		
Magnesium	6010B	4.01	0.04	2.0	11/24/09	12/01/09	4670		
Manganese	6010B	2.01	0.04	2.0	11/24/09	12/01/09	235		
Nickel	6020	0.21	0.02	5.0	11/24/09	12/07/09	20.1		
Potassium	6010B	201	5.0	2.0	11/24/09	12/01/09	1790		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.28		
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	1.140		
Sodium	6010B	20.1	4.0	2.0	11/24/09	12/01/09	1540		
Thallium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.103		*
Titanium	6010B	10.0	0.5	2.0	11/24/09	12/01/09	348		
Vanadium	6020	0.21	0.02	5.0	11/24/09	12/07/09	20.1		
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	200		

% Solids: 77.3

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT03F **Lab Code:** K0911120-009

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.1	2.0	11/24/09	12/01/09	9920		
Antimony	6020	0.051	0.009	5.0	11/24/09	12/07/09	0.725		
Arsenic	6020	0.49	0.05	5.0	11/24/09	12/07/09	7.26		
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	85.4		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.650		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	2.810		
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	4310		
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	88.0		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	8.670		
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	154		
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	23700		
Lead	6010B	20.2	3.0	2.0	11/24/09	12/01/09	162		
Magnesium	6010B	4.04	0.04	2.0	11/24/09	12/01/09	6120		
Manganese	6010B	2.02	0.04	2.0	11/24/09	12/01/09	273		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	26.9		
Potassium	6010B	202	5.1	2.0	11/24/09	12/01/09	1650		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.37		
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	2.570		
Sodium	6010B	20.2	4.0	2.0	11/24/09	12/01/09	5050		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.175		*
Titanium	6010B	10.1	0.5	2.0	11/24/09	12/01/09	406		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	26.7		
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	409		

% Solids: 44.8

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT04C **Lab Code:** K0911120-010

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.7	5.8	2.0	11/24/09	12/01/09	6840		
Antimony	6020	0.048	0.009	5.0	11/24/09	12/07/09	1.050		
Arsenic	6020	0.47	0.05	5.0	11/24/09	12/07/09	9.48		
Barium	6010B	1.9	0.3	2.0	11/24/09	12/01/09	89.5		
Beryllium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.368		
Cadmium	6020	0.019	0.004	5.0	11/24/09	12/07/09	5.310		
Calcium	6010B	9.7	1.9	2.0	11/24/09	12/01/09	20600		
Chromium	6010B	1.9	0.4	2.0	11/24/09	12/01/09	296		
Cobalt	6020	0.019	0.001	5.0	11/24/09	12/07/09	5.670		
Copper	6010B	1.9	0.6	2.0	11/24/09	12/01/09	396		
Iron	6010B	3.9	0.3	2.0	11/24/09	12/01/09	20800		
Lead	6010B	19.4	2.9	2.0	11/24/09	12/01/09	173		
Magnesium	6010B	3.87	0.04	2.0	11/24/09	12/01/09	9680		
Manganese	6010B	1.94	0.04	2.0	11/24/09	12/01/09	255		
Nickel	6020	0.19	0.02	5.0	11/24/09	12/07/09	28.5		
Potassium	6010B	194	4.8	2.0	11/24/09	12/01/09	1100		
Selenium	7742	0.09	0.03	2.0	11/24/09	12/16/09	0.68		
Silver	6020	0.019	0.008	5.0	11/24/09	12/07/09	3.160		
Sodium	6010B	19.4	3.9	2.0	11/24/09	12/01/09	4130		
Thallium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.151		*
Titanium	6010B	9.7	0.5	2.0	11/24/09	12/01/09	258		
Vanadium	6020	0.19	0.02	5.0	11/24/09	12/07/09	18.6		
Zinc	6010B	1.9	0.3	2.0	11/24/09	12/01/09	693		

% Solids: 57.4

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT05A **Lab Code:** K0911120-011

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.4	2.0	11/24/09	12/01/09	9590		
Antimony	6020	0.053	0.010	5.0	11/24/09	12/07/09	2.410		
Arsenic	6020	0.53	0.05	5.0	11/24/09	12/07/09	15.5		
Barium	6010B	2.1	0.3	2.0	11/24/09	12/01/09	171		
Beryllium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.494		
Cadmium	6020	0.021	0.004	5.0	11/24/09	12/07/09	2.370		
Calcium	6010B	11	2.1	2.0	11/24/09	12/01/09	4490		
Chromium	6010B	2.1	0.4	2.0	11/24/09	12/01/09	110		
Cobalt	6020	0.021	0.001	5.0	11/24/09	12/07/09	7.260		
Copper	6010B	2.1	0.6	2.0	11/24/09	12/01/09	280		
Iron	6010B	4.3	0.3	2.0	11/24/09	12/01/09	23600		
Lead	6010B	21.3	3.2	2.0	11/24/09	12/01/09	281		
Magnesium	6010B	4.25	0.04	2.0	11/24/09	12/01/09	5780		
Manganese	6010B	2.13	0.04	2.0	11/24/09	12/01/09	308		
Nickel	6020	0.21	0.02	5.0	11/24/09	12/07/09	36.1		
Potassium	6010B	213	5.3	2.0	11/24/09	12/01/09	1500		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.66		
Silver	6020	0.021	0.009	5.0	11/24/09	12/07/09	3.680		
Sodium	6010B	21.3	4.3	2.0	11/24/09	12/01/09	3780		
Thallium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.346		*
Titanium	6010B	10.6	0.5	2.0	11/24/09	12/01/09	386		
Vanadium	6020	0.21	0.02	5.0	11/24/09	12/07/09	23.1		
Zinc	6010B	2.1	0.3	2.0	11/24/09	12/01/09	508		

% Solids: 41.6

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH05B **Lab Code:** K0911120-012

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.5	5.7	2.0	11/24/09	12/01/09	12600		
Antimony	6020	0.048	0.009	5.0	11/24/09	12/07/09	8.870		
Arsenic	6020	0.47	0.05	5.0	11/24/09	12/07/09	21.0		
Barium	6010B	1.9	0.3	2.0	11/24/09	12/01/09	134		
Beryllium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.675		
Cadmium	6020	0.019	0.004	5.0	11/24/09	12/07/09	2.580		
Calcium	6010B	9.5	1.9	2.0	11/24/09	12/01/09	5160		
Chromium	6010B	1.9	0.4	2.0	11/24/09	12/01/09	135		
Cobalt	6020	0.019	0.001	5.0	11/24/09	12/07/09	9.640		
Copper	6010B	1.9	0.6	2.0	11/24/09	12/01/09	242		
Iron	6010B	3.8	0.3	2.0	11/24/09	12/01/09	32000		
Lead	6010B	19.0	2.9	2.0	11/24/09	12/01/09	682		
Magnesium	6010B	3.80	0.04	2.0	11/24/09	12/01/09	6640		
Manganese	6010B	1.90	0.04	2.0	11/24/09	12/01/09	464		
Nickel	6020	0.19	0.02	5.0	11/24/09	12/07/09	30.8		
Potassium	6010B	190	4.8	2.0	11/24/09	12/01/09	1850		
Selenium	7742	0.09	0.03	2.0	11/24/09	12/16/09	1.32		
Silver	6020	0.019	0.008	5.0	11/24/09	12/07/09	3.710		
Sodium	6010B	19.0	3.8	2.0	11/24/09	12/01/09	2320		
Thallium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.170		*
Titanium	6010B	9.5	0.5	2.0	11/24/09	12/01/09	430		
Vanadium	6020	0.19	0.02	5.0	11/24/09	12/07/09	28.1		
Zinc	6010B	1.9	0.3	2.0	11/24/09	12/01/09	831		

% Solids: 47.6

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH09B **Lab Code:** K0911120-013

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.7	2.0	11/24/09	12/01/09	9440		
Antimony	6020	0.056	0.010	5.0	11/24/09	12/07/09	0.867		
Arsenic	6020	0.56	0.06	5.0	11/24/09	12/07/09	6.08		
Barium	6010B	2.2	0.3	2.0	11/24/09	12/01/09	124		
Beryllium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.504		
Cadmium	6020	0.022	0.004	5.0	11/24/09	12/07/09	2.580		
Calcium	6010B	11	2.2	2.0	11/24/09	12/01/09	4980		
Chromium	6010B	2.2	0.4	2.0	11/24/09	12/01/09	87.7		
Cobalt	6020	0.022	0.001	5.0	11/24/09	12/07/09	7.810		
Copper	6010B	2.2	0.7	2.0	11/24/09	12/01/09	151		
Iron	6010B	4.5	0.3	2.0	11/24/09	12/01/09	22900		
Lead	6010B	22.2	3.3	2.0	11/24/09	12/01/09	162		
Magnesium	6010B	4.45	0.04	2.0	11/24/09	12/01/09	4620		
Manganese	6010B	2.22	0.04	2.0	11/24/09	12/01/09	584		
Nickel	6020	0.22	0.02	5.0	11/24/09	12/07/09	23.6		
Potassium	6010B	222	5.6	2.0	11/24/09	12/01/09	1090		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.29		
Silver	6020	0.022	0.009	5.0	11/24/09	12/07/09	2.040		
Sodium	6010B	22.2	4.5	2.0	11/24/09	12/01/09	598		
Thallium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.140		*
Titanium	6010B	11.1	0.6	2.0	11/24/09	12/01/09	382		
Vanadium	6020	0.22	0.02	5.0	11/24/09	12/07/09	23.9		
Zinc	6010B	2.2	0.3	2.0	11/24/09	12/01/09	397		

% Solids: 40.5

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT03G **Lab Code:** K0911120-014

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.2	2.0	11/24/09	12/01/09	11800		
Antimony	6020	0.051	0.009	5.0	11/24/09	12/07/09	0.819		
Arsenic	6020	0.52	0.05	5.0	11/24/09	12/07/09	7.70		
Barium	6010B	2.1	0.3	2.0	11/24/09	12/01/09	90.6		
Beryllium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.554		
Cadmium	6020	0.021	0.004	5.0	11/24/09	12/07/09	2.890		
Calcium	6010B	10	2.1	2.0	11/24/09	12/01/09	4680		
Chromium	6010B	2.1	0.4	2.0	11/24/09	12/01/09	111		
Cobalt	6020	0.021	0.001	5.0	11/24/09	12/07/09	7.990		
Copper	6010B	2.1	0.6	2.0	11/24/09	12/01/09	178		
Iron	6010B	4.1	0.3	2.0	11/24/09	12/01/09	27600		
Lead	6010B	20.6	3.1	2.0	11/24/09	12/01/09	179		
Magnesium	6010B	4.12	0.04	2.0	11/24/09	12/01/09	7200		
Manganese	6010B	2.06	0.04	2.0	11/24/09	12/01/09	318		
Nickel	6020	0.21	0.02	5.0	11/24/09	12/07/09	25.0		
Potassium	6010B	206	5.2	2.0	11/24/09	12/01/09	1990		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.62		
Silver	6020	0.021	0.008	5.0	11/24/09	12/07/09	2.490		
Sodium	6010B	20.6	4.1	2.0	11/24/09	12/01/09	6010		
Thallium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.172		*
Titanium	6010B	10.3	0.5	2.0	11/24/09	12/01/09	456		
Vanadium	6020	0.21	0.02	5.0	11/24/09	12/07/09	25.2		
Zinc	6010B	2.1	0.3	2.0	11/24/09	12/01/09	462		

% Solids: 34.8

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH13B **Lab Code:** K0911120-015

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.0	2.0	11/24/09	12/01/09	10600		
Antimony	6020	0.050	0.009	5.0	11/24/09	12/07/09	0.778		
Arsenic	6020	0.52	0.05	5.0	11/24/09	12/07/09	4.54		
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	168		
Beryllium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.490		
Cadmium	6020	0.021	0.004	5.0	11/24/09	12/07/09	2.720		
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	5690		
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	87.2		
Cobalt	6020	0.021	0.001	5.0	11/24/09	12/07/09	7.820		
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	160		
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	23800		
Lead	6010B	19.9	3.0	2.0	11/24/09	12/01/09	216		
Magnesium	6010B	3.99	0.04	2.0	11/24/09	12/01/09	4350		
Manganese	6010B	1.99	0.04	2.0	11/24/09	12/01/09	1070		
Nickel	6020	0.21	0.02	5.0	11/24/09	12/07/09	22.3		
Potassium	6010B	199	5.0	2.0	11/24/09	12/01/09	934		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.97		
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	3.720		
Sodium	6010B	19.9	4.0	2.0	11/24/09	12/01/09	291		
Thallium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.124		*
Titanium	6010B	10.0	0.5	2.0	11/24/09	12/01/09	415		
Vanadium	6020	0.21	0.02	5.0	11/24/09	12/07/09	23.6		
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	448		

% Solids: 43.8

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH05A **Lab Code:** K0911120-016

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.3	2.0	11/24/09	12/01/09	9620		
Antimony	6020	0.053	0.009	5.0	11/24/09	12/07/09	1.180		
Arsenic	6020	0.52	0.05	5.0	11/24/09	12/07/09	5.99		
Barium	6010B	2.1	0.3	2.0	11/24/09	12/01/09	69.5		
Beryllium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.428		
Cadmium	6020	0.021	0.004	5.0	11/24/09	12/07/09	1.500		
Calcium	6010B	11	2.1	2.0	11/24/09	12/01/09	3010		
Chromium	6010B	2.1	0.4	2.0	11/24/09	12/01/09	80.7		
Cobalt	6020	0.021	0.001	5.0	11/24/09	12/07/09	6.440		
Copper	6010B	2.1	0.6	2.0	11/24/09	12/01/09	145		
Iron	6010B	4.2	0.3	2.0	11/24/09	12/01/09	22800		
Lead	6010B	21.1	3.2	2.0	11/24/09	12/01/09	153		
Magnesium	6010B	4.22	0.04	2.0	11/24/09	12/01/09	5570		
Manganese	6010B	2.11	0.04	2.0	11/24/09	12/01/09	220		
Nickel	6020	0.21	0.02	5.0	11/24/09	12/07/09	29.0		
Potassium	6010B	211	5.3	2.0	11/24/09	12/01/09	1590		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.43		
Silver	6020	0.021	0.008	5.0	11/24/09	12/07/09	1.920		
Sodium	6010B	21.1	4.2	2.0	11/24/09	12/01/09	3090		
Thallium	6020	0.021	0.003	5.0	11/24/09	12/07/09	0.109		*
Titanium	6010B	10.5	0.5	2.0	11/24/09	12/01/09	381		
Vanadium	6020	0.21	0.02	5.0	11/24/09	12/07/09	19.5		
Zinc	6010B	2.1	0.3	2.0	11/24/09	12/01/09	332		

% Solids: 51.8

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH07B **Lab Code:** K0911120-017

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.2	5.5	2.0	11/24/09	12/01/09	8840		
Antimony	6020	0.046	0.008	5.0	11/24/09	12/07/09	0.673		
Arsenic	6020	0.47	0.05	5.0	11/24/09	12/07/09	4.19		
Barium	6010B	1.8	0.3	2.0	11/24/09	12/01/09	216		
Beryllium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.383		
Cadmium	6020	0.019	0.004	5.0	11/24/09	12/07/09	1.730		
Calcium	6010B	9.2	1.8	2.0	11/24/09	12/01/09	3560		
Chromium	6010B	1.8	0.4	2.0	11/24/09	12/01/09	80.9		
Cobalt	6020	0.019	0.001	5.0	11/24/09	12/07/09	5.410		
Copper	6010B	1.8	0.6	2.0	11/24/09	12/01/09	131		
Iron	6010B	3.7	0.3	2.0	11/24/09	12/01/09	20900		
Lead	6010B	18.4	2.8	2.0	11/24/09	12/01/09	148		
Magnesium	6010B	3.67	0.04	2.0	11/24/09	12/01/09	5090		
Manganese	6010B	1.84	0.04	2.0	11/24/09	12/01/09	496		
Nickel	6020	0.19	0.02	5.0	11/24/09	12/07/09	18.4		
Potassium	6010B	184	4.6	2.0	11/24/09	12/01/09	1100		
Selenium	7742	0.09	0.03	2.0	11/24/09	12/16/09	0.47		
Silver	6020	0.018	0.007	5.0	11/24/09	12/07/09	1.790		
Sodium	6010B	18.4	3.7	2.0	11/24/09	12/01/09	528		
Thallium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.093		*
Titanium	6010B	9.2	0.5	2.0	11/24/09	12/01/09	341		
Vanadium	6020	0.19	0.02	5.0	11/24/09	12/07/09	17.0		
Zinc	6010B	1.8	0.3	2.0	11/24/09	12/01/09	321		

% Solids: 57.9

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH10A **Lab Code:** K0911120-018

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.5	5.7	2.0	11/24/09	12/01/09	7410		
Antimony	6020	0.047	0.009	5.0	11/24/09	12/07/09	0.839		
Arsenic	6020	0.49	0.05	5.0	11/24/09	12/07/09	3.47		
Barium	6010B	1.9	0.3	2.0	11/24/09	12/01/09	83.0		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.334		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	1.120		
Calcium	6010B	9.5	1.9	2.0	11/24/09	12/01/09	4220		
Chromium	6010B	1.9	0.4	2.0	11/24/09	12/01/09	47.2		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	5.870		
Copper	6010B	1.9	0.6	2.0	11/24/09	12/01/09	72.1		
Iron	6010B	3.8	0.3	2.0	11/24/09	12/01/09	16000		
Lead	6010B	19.0	2.9	2.0	11/24/09	12/01/09	76.3		
Magnesium	6010B	3.80	0.04	2.0	11/24/09	12/01/09	3560		
Manganese	6010B	1.90	0.04	2.0	11/24/09	12/01/09	256		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	15.6		
Potassium	6010B	190	4.8	2.0	11/24/09	12/01/09	1140		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.40		
Silver	6020	0.019	0.008	5.0	11/24/09	12/07/09	0.863		
Sodium	6010B	19.0	3.8	2.0	11/24/09	12/01/09	277		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.086		*
Titanium	6010B	9.5	0.5	2.0	11/24/09	12/01/09	347		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	17.7		
Zinc	6010B	1.9	0.3	2.0	11/24/09	12/01/09	208		

% Solids: 56.3

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH11A **Lab Code:** K0911120-019

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.9	6.0	2.0	11/24/09	12/01/09	4410		
Antimony	6020	0.050	0.009	5.0	11/24/09	12/07/09	0.303		
Arsenic	6020	0.50	0.05	5.0	11/24/09	12/07/09	2.27		
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	45.4		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.238		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	0.494		
Calcium	6010B	9.9	2.0	2.0	11/24/09	12/01/09	1820		
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	25.2		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	4.380		
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	30.1		
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	11200		
Lead	6010B	19.8	3.0	2.0	11/24/09	12/01/09	37.3		
Magnesium	6010B	3.97	0.04	2.0	11/24/09	12/01/09	1540		
Manganese	6010B	1.98	0.04	2.0	11/24/09	12/01/09	165		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	8.90		
Potassium	6010B	198	5.0	2.0	11/24/09	12/01/09	340		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.13		
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	0.271		
Sodium	6010B	19.8	4.0	2.0	11/24/09	12/01/09	97.3		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.063		
Titanium	6010B	9.9	0.5	2.0	11/24/09	12/01/09	193		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	11.7		
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	99.1		

% Solids: 80.7

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH11B **Lab Code:** K0911120-020

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.4	5.7	2.0	11/24/09	12/01/09	2930		
Antimony	6020	0.047	0.008	5.0	11/24/09	12/07/09	0.228		
Arsenic	6020	0.50	0.05	5.0	11/24/09	12/07/09	1.76		
Barium	6010B	1.9	0.3	2.0	11/24/09	12/01/09	31.3		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.215		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	0.629		
Calcium	6010B	9.4	1.9	2.0	11/24/09	12/01/09	1070		
Chromium	6010B	1.9	0.4	2.0	11/24/09	12/01/09	22.7		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	3.060		
Copper	6010B	1.9	0.6	2.0	11/24/09	12/01/09	50.3		
Iron	6010B	3.8	0.3	2.0	11/24/09	12/01/09	7930		
Lead	6010B	18.8	2.8	2.0	11/24/09	12/01/09	33.6		
Magnesium	6010B	3.77	0.04	2.0	11/24/09	12/01/09	1060		
Manganese	6010B	1.88	0.04	2.0	11/24/09	12/01/09	102		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	7.39		
Potassium	6010B	188	4.7	2.0	11/24/09	12/01/09	273		
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.09	J	
Silver	6020	0.019	0.008	5.0	11/24/09	12/07/09	0.355		
Sodium	6010B	18.8	3.8	2.0	11/24/09	12/01/09	72.4		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.041		
Titanium	6010B	9.4	0.5	2.0	11/24/09	12/01/09	133		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	9.84		
Zinc	6010B	1.9	0.3	2.0	11/24/09	12/01/09	90.5		

% Solids: 83.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH16A **Lab Code:** K0911120-021

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.4	2.0	11/24/09	12/01/09	4860		
Antimony	6020	0.053	0.010	5.0	11/24/09	12/07/09	7.170		
Arsenic	6020	0.51	0.05	5.0	11/24/09	12/07/09	10.6		
Barium	6010B	2.1	0.3	2.0	11/24/09	12/01/09	791		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.208		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	2.140		
Calcium	6010B	11	2.1	2.0	11/24/09	12/01/09	2920		
Chromium	6010B	2.1	0.4	2.0	11/24/09	12/01/09	66.7		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	5.240		
Copper	6010B	2.1	0.6	2.0	11/24/09	12/01/09	160		
Iron	6010B	4.3	0.3	2.0	11/24/09	12/01/09	53100		
Lead	6010B	21.3	3.2	2.0	11/24/09	12/01/09	589		
Magnesium	6010B	4.26	0.04	2.0	11/24/09	12/01/09	2130		
Manganese	6010B	2.13	0.04	2.0	11/24/09	12/01/09	285		
Nickel	6020	0.21	0.02	5.0	11/24/09	12/07/09	17.1		
Potassium	6010B	213	5.3	2.0	11/24/09	12/01/09	348		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.86		
Silver	6020	0.021	0.009	5.0	11/24/09	12/07/09	0.864		
Sodium	6010B	21.3	4.3	2.0	11/24/09	12/01/09	274		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.133		
Titanium	6010B	10.6	0.5	2.0	11/24/09	12/01/09	300		
Vanadium	6020	0.21	0.02	5.0	11/24/09	12/07/09	15.7		
Zinc	6010B	2.1	0.3	2.0	11/24/09	12/01/09	1600		

% Solids: 76.4

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/12/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRH12B **Lab Code:** K0911120-022

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	11	6.6	2.0	11/24/09	12/01/09	5270		
Antimony	6020	0.055	0.010	5.0	11/24/09	12/07/09	0.675		
Arsenic	6020	0.55	0.06	5.0	11/24/09	12/07/09	2.82		
Barium	6010B	2.2	0.3	2.0	11/24/09	12/01/09	94.8		
Beryllium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.275		
Cadmium	6020	0.022	0.004	5.0	11/24/09	12/07/09	1.380		
Calcium	6010B	11	2.2	2.0	11/24/09	12/01/09	3180		
Chromium	6010B	2.2	0.4	2.0	11/24/09	12/01/09	44.8		
Cobalt	6020	0.022	0.001	5.0	11/24/09	12/07/09	4.960		
Copper	6010B	2.2	0.7	2.0	11/24/09	12/01/09	73.5		
Iron	6010B	4.4	0.3	2.0	11/24/09	12/01/09	13900		
Lead	6010B	22.0	3.3	2.0	11/24/09	12/01/09	128		
Magnesium	6010B	4.40	0.04	2.0	11/24/09	12/01/09	2290		
Manganese	6010B	2.20	0.04	2.0	11/24/09	12/01/09	463		
Nickel	6020	0.22	0.02	5.0	11/24/09	12/07/09	13.7		
Potassium	6010B	220	5.5	2.0	11/24/09	12/01/09	486		
Selenium	7742	0.11	0.03	2.0	11/24/09	12/16/09	0.29		
Silver	6020	0.022	0.009	5.0	11/24/09	12/07/09	1.000		
Sodium	6010B	22.0	4.4	2.0	11/24/09	12/01/09	180		
Thallium	6020	0.022	0.003	5.0	11/24/09	12/07/09	0.072		
Titanium	6010B	11.0	0.6	2.0	11/24/09	12/01/09	264		
Vanadium	6020	0.22	0.02	5.0	11/24/09	12/07/09	14.3		
Zinc	6010B	2.2	0.3	2.0	11/24/09	12/01/09	282		

% Solids: 62.3

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Windward Environmental, LLC
Project No.: 09.58.02.41
Project Name: Passaic RI/FS Sediment
Matrix: SEDIMENT

Service Request: K0911120
Date Collected:
Date Received:
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: K0911120-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.0	2.0	11/24/09	12/01/09	6.0	U	
Antimony	6020	0.050	0.009	5.0	11/24/09	12/07/09	0.009	U	
Arsenic	6020	0.50	0.05	5.0	11/24/09	12/07/09	0.05	U	
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	0.3	U	
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.003	U	
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	0.004	U	
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	2.0	U	
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	0.4	U	
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	0.001	U	
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	0.6	J	
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	1.1	J	
Lead	6010B	20.0	3.0	2.0	11/24/09	12/01/09	3.0	U	
Magnesium	6010B	4.00	0.04	2.0	11/24/09	12/01/09	0.09	J	
Manganese	6010B	2.00	0.04	2.0	11/24/09	12/01/09	0.04	U	
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	0.03	J	
Potassium	6010B	200	5.0	2.0	11/24/09	12/01/09	5.0	U	
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.03	U	
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	0.008	U	
Sodium	6010B	20.0	4.0	2.0	11/24/09	12/01/09	4.0	U	
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.003	U	*
Titanium	6010B	10.0	0.5	2.0	11/24/09	12/01/09	0.5	U	
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	0.02	U	
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	0.3	U	

% Solids: 100.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	
Project Name:	Passaic RI/FS Sediment	**Date Received:**	
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: Method Blank **Lab Code:** K0911120-MB2

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.0	2.0	11/24/09	12/01/09	6.0	U	
Antimony	6020	0.050	0.009	5.0	11/24/09	12/07/09	0.009	U	
Arsenic	6020	0.50	0.05	5.0	11/24/09	12/07/09	0.05	U	
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	0.3	U	
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.003	U	
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	0.004	U	
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	2.0	U	
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	0.4	U	
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	0.001	J	
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	0.6	U	
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	2.1	J	
Lead	6010B	20.0	3.0	2.0	11/24/09	12/01/09	3.0	U	
Magnesium	6010B	4.00	0.04	2.0	11/24/09	12/01/09	0.16	J	
Manganese	6010B	2.00	0.04	2.0	11/24/09	12/01/09	0.04	U	
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	0.04	J	
Potassium	6010B	200	5.0	2.0	11/24/09	12/01/09	5.0	U	
Selenium	7742	0.10	0.03	2.0	11/24/09	12/16/09	0.03	U	
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	0.008	U	
Sodium	6010B	20.0	4.0	2.0	11/24/09	12/01/09	4.0	U	
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.003	U	
Titanium	6010B	10.0	0.5	2.0	11/24/09	12/01/09	0.5	U	
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	0.02	U	
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	0.3	U	

% Solids: 100.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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	4983	100	5000	4931	99	5180	104	6010B
Antimony	25.0	25.0	100	25.0	25.1	100	25.0	100	6020
Arsenic	25.0	25.5	102	25.0	25.9	104	24.6	98	6020
Barium	5000	5102	102	2500	2471	99	2496	100	6010B
Beryllium	2.5	2.7	108	25.0	26.7	107	26.2	105	6020
Cadmium	12.5	12.5	100	25.0	25.5	102	24.8	99	6020
Calcium	5000	5170	103	2500	2539	102	2554	102	6010B
Calcium	12500	12792	102	25000	25794	103	25822	103	6010B
Chromium	500	513	103	500	501	100	499	100	6010B
Cobalt	25.0	25.1	100	25.0	25.5	102	24.3	97	6020
Copper	625	625	100	500	505	101	502	100	6010B
Iron	2500	2603	104	500	501	100	515	103	6010B
Iron	10000	10208	102	25000	25228	101	25778	103	6010B
Lead	2500	2528	101	2500	2498	100	2502	100	6010B
Magnesium	5000	5067	101	2000	2063	103	2076	104	6010B
Magnesium	12500	12791	102	25000	25503	102	25634	103	6010B
Manganese	1250	1233	99	1000	979	98	977	98	6010B
Manganese	10000	10328	103	5000	5040	101	5132	103	6010B
Nickel	25.0	25.7	103	25.0	26.1	104	24.7	99	6020
Potassium	12500	12570	101	10000	10112	101	10062	101	6010B
Selenium	7.50	7.60	101	7.50	7.49	100	7.63	102	7742
Silver	12.5	13.5	108	25.0	25.0	100	25.2	101	6020
Sodium	12500	12313	99	10000	9849	98	9959	100	6010B
Thallium	25.0	25.1	100	25.0	25.6	102	25.2	101	6020
Titanium	2000	2053	103	500	500	100	501	100	6010B
Vanadium	25.0	26.3	105	25.0	26.3	105	25.2	101	6020
Zinc	1250	1260	101	500	500	100	497	99	6010B

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Aluminum				5000	4990	100	4959	99	6010B
Antimony				25.0	25.9	104	25.7	103	6020
Arsenic				25.0	24.4	98	24.7	99	6020
Barium				2500	2485	99	2483	99	6010B
Beryllium				25.0	25.2	101	25.5	102	6020
Cadmium				25.0	24.8	99	25.1	100	6020
Calcium				2500	2569	103	2568	103	6010B
Calcium				25000	25665	103	25984	104	6010B
Chromium				500	501	100	503	101	6010B
Cobalt				25.0	23.9	96	24.5	98	6020
Copper				500	516	103	518	104	6010B
Iron				500	519	104	519	104	6010B
Iron				25000	25214	101	25184	101	6010B
Lead				2500	2480	99	2473	99	6010B
Magnesium				2000	2090	104	2101	105	6010B
Magnesium				25000	25680	103	25749	103	6010B
Manganese				1000	978	98	985	98	6010B
Manganese				5000	5071	101	5071	101	6010B
Nickel				25.0	24.2	97	24.4	98	6020
Potassium				10000	10083	101	10213	102	6010B
Selenium				7.50	7.75	103	7.64	102	7742
Silver				25.0	25.9	104	25.6	102	6020
Sodium				10000	9924	99	9943	99	6010B
Thallium				25.0	24.8	99	25.2	101	6020
Titanium				500	505	101	504	101	6010B
Vanadium				25.0	24.4	98	24.6	98	6020
Zinc				500	500	100	497	99	6010B

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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	4935	99	4934	99	6010B
Antimony				25.0	24.1	96	24.9	100	6020
Arsenic				25.0	24.7	99	24.7	99	6020
Barium				2500	2489	100	2516	101	6010B
Beryllium				25.0	26.4	106	26.8	107	6020
Cadmium				25.0	25.4	102	24.9	100	6020
Calcium				2500	2566	103	2563	103	6010B
Calcium				25000	25982	104	26005	104	6010B
Chromium				500	503	101	505	101	6010B
Cobalt				25.0	24.7	99	24.2	97	6020
Copper				500	525	105	530	106	6010B
Iron				500	519	104	522	104	6010B
Iron				25000	24957	100	24926	100	6010B
Lead				2500	2476	99	2475	99	6010B
Magnesium				2000	2104	105	2109	105	6010B
Magnesium				25000	25810	103	25717	103	6010B
Manganese				1000	986	99	986	99	6010B
Manganese				5000	5013	100	5004	100	6010B
Nickel				25.0	24.7	99	24.4	98	6020
Potassium				10000	10098	101	9893	99	6010B
Selenium				7.50	7.77	104	7.73	103	7742
Silver				25.0	24.4	98	25.2	101	6020
Sodium				10000	9890	99	9803	98	6010B
Thallium				25.0	25.9	104	25.7	103	6020
Titanium				500	502	100	502	100	6010B
Vanadium				25.0	24.9	100	25.2	101	6020
Zinc				500	498	100	503	101	6010B

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Aluminum				5000	4886	98	4884	98	6010B
Antimony				25.0	24.8	99	25.0	100	6020
Arsenic				25.0	24.9	100			6020
Barium				2500	2511	100	2505	100	6010B
Beryllium				25.0	27.0	108			6020
Cadmium				25.0	25.5	102			6020
Calcium				2500	2539	102	2543	102	6010B
Calcium				25000	25749	103	25795	103	6010B
Chromium				500	502	100	503	101	6010B
Cobalt				25.0	25.3	101			6020
Copper				500	535	107	541	108	6010B
Iron				500	520	104	528	106	6010B
Iron				25000	24639	99	24561	98	6010B
Lead				2500	2424	97	2411	96	6010B
Magnesium				2000	2106	105	2116	106	6010B
Magnesium				25000	25889	104	26070	104	6010B
Manganese				1000	978	98	984	98	6010B
Manganese				5000	4976	100	4962	99	6010B
Nickel				25.0	24.9	100			6020
Potassium				10000	9990	100	10098	101	6010B
Selenium				7.50	7.46	99	7.46	99	7742
Silver				25.0	25.1	100	25.1	100	6020
Sodium				10000	9873	99	9948	99	6010B
Thallium				25.0	26.2	105			6020
Titanium				500	501	100	504	101	6010B
Vanadium				25.0	25.0	100			6020
Zinc				500	493	99	492	98	6010B

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Aluminum				5000	4887	98	4898	98	6010B
Antimony				25.0	24.8	99	24.8	99	6020
Barium				2500	2510	100	2514	101	6010B
Calcium				2500	2539	102	2536	101	6010B
Calcium				25000	25629	103	25799	103	6010B
Chromium				500	503	101	503	101	6010B
Copper				500	546	109	543	109	6010B
Iron				500	527	105	514	103	6010B
Iron				25000	24506	98	24601	98	6010B
Lead				2500	2409	96	2436	97	6010B
Magnesium				2000	2113	106	2104	105	6010B
Magnesium				25000	26041	104	26062	104	6010B
Manganese				1000	987	99	984	98	6010B
Manganese				5000	4971	99	4972	99	6010B
Potassium				10000	10077	101	10079	101	6010B
Selenium				7.50	7.66	102			7742
Silver				25.0	25.1	100	25.4	102	6020
Sodium				10000	9946	99	9854	99	6010B
Titanium				500	503	101	507	101	6010B
Zinc				500	490	98	496	99	6010B

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Aluminum				5000	4826	97	4851	97	6010B
Antimony				25.0	24.7	99	24.5	98	6020
Barium				2500	2501	100	2502	100	6010B
Calcium				2500	2468	99	2460	98	6010B
Calcium				25000	25570	102	25298	101	6010B
Chromium				500	505	101	502	100	6010B
Copper				500	548	110	545	109	6010B
Iron				500	486	97	499	100	6010B
Iron				25000	24182	97	24215	97	6010B
Lead				2500	2414	97	2400	96	6010B
Magnesium				2000	1996	100	1998	100	6010B
Magnesium				25000	26064	104	25965	104	6010B
Manganese				1000	984	98	981	98	6010B
Manganese				5000	4912	98	4904	98	6010B
Potassium				10000	9968	100	10015	100	6010B
Silver				25.0	25.4	102	25.0	100	6020
Sodium				10000	9834	98	9871	99	6010B
Titanium				500	502	100	500	100	6010B
Zinc				500	494	99	488	98	6010B

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICV Source: Inorganic Ventures CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Aluminum				5000	4826	97			6010B
Antimony				25.0	25.8	103	26.7	107	6020
Barium				2500	2514	101			6010B
Calcium				2500	2443	98			6010B
Calcium				25000	25454	102			6010B
Chromium				500	503	101			6010B
Copper				500	548	110			6010B
Iron				500	501	100			6010B
Iron				25000	24195	97			6010B
Lead				2500	2373	95			6010B
Magnesium				2000	1987	99			6010B
Magnesium				25000	25941	104			6010B
Manganese				1000	986	99			6010B
Manganese				5000	4907	98			6010B
Potassium				10000	9943	99			6010B
Silver				25.0	26.1	104	26.8	107	6020
Sodium				10000	9817	98			6010B
Titanium				500	502	100			6010B
Zinc				500	490	98			6010B

Metals
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				50.0	58.7	117		
Antimony				0.10	0.10	100		
Arsenic				1.00	1.05	105		
Barium				5.0	4.5	90		
Beryllium				0.040	0.052	130		
Cadmium				0.04	0.039	98		
Calcium				50.0	59.5	119		
Chromium				5.0	4.8	96		
Cobalt				0.04	0.04	100		
Copper				10.0	12.6	126		
Iron				20.0	19.1	96		
Lead				50.0	51.1	102		
Magnesium				20.0	20.7	104		
Manganese				5.0	4.9	98		
Nickel				0.4	0.51	128		
Potassium				400.0	406.7	102		
Selenium	0.5	0.39	78					
Silver				0.04	0.04	100		
Sodium				200.0	201.8	101		
Thallium				0.04	0.040	100		
Titanium				10.0	10.2	102		
Vanadium				0.4	0.43	108		
Zinc				10.0	8.5	85		

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum	30	U	30	U	30	U	30	U	6010B
Antimony	0.018	U	-0.019	J	-0.029	J	-0.034	J	6020
Arsenic	0.1	U	0.1	U	0.1	U	0.1	U	6020
Barium	1.5	U	1.5	U	1.5	U	1.5	U	6010B
Beryllium	0.007	J	0.006	U	0.010	J	0.006	U	6020
Cadmium	0.008	U	0.008	U	0.008	U	0.008	U	6020
Calcium	10.0	U	10.0	U	10.0	U	10.0	U	6010B
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	6010B
Cobalt	0.005	J	0.004	J	0.008	J	0.008	J	6020
Copper	3.0	U	3.0	U	3.0	U	3.0	J	6010B
Iron	4.5	J	1.5	U	4.0	J	2.2	J	6010B
Lead	15	U	15	U	15	U	15	U	6010B
Magnesium	0.2	U	0.2	U	1.9	J	1.6	J	6010B
Manganese	1.5	J	0.6	J	0.9	J	0.8	J	6010B
Nickel	0.04	U	0.04	U	0.04	U	0.04	U	6020
Potassium	25.0	U	25.0	U	25.0	U	25.0	U	6010B
Selenium	0.10	U	0.10	U	0.10	U	0.10	U	7742
Silver	0.016	U	0.016	U	0.016	U	0.016	U	6020
Sodium	20	U	20	U	20	U	20	U	6010B
Thallium	0.010	J	0.006	U	0.014	J	0.017	J	6020
Titanium	2.5	U	2.5	U	2.5	U	2.5	U	6010B
Vanadium	0.04	U	0.04	U	0.04	U	0.04	U	6020
Zinc	1.5	U	1.5	U	1.5	U	1.5	U	6010B

Metals

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BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			30	U	30	U	30	U	6010B
Antimony			-0.041	J	-0.042	J	-0.037	J	6020
Arsenic			0.1	U	0.1	U	0.1	U	6020
Barium			1.5	U	1.5	U	1.5	U	6010B
Beryllium			0.012	J	0.014	J	0.015	J	6020
Cadmium			0.008	U	0.010	J	0.017	J	6020
Calcium			10.0	U	10.0	U	10.0	U	6010B
Chromium			2.0	U	2.0	U	2.0	U	6010B
Cobalt			0.010	J	0.015	J	0.016	J	6020
Copper			3.5	J	3.0	U	3.2	J	6010B
Iron			2.6	J	3.7	J	4.6	J	6010B
Lead			15	U	15	U	15	U	6010B
Magnesium			2.0	J	2.3	J	2.8	J	6010B
Manganese			1.1	J	1.0	J	1.2	J	6010B
Nickel			0.04	U	0.04	U	0.04	U	6020
Potassium			25.0	U	25.0	U	25.0	U	6010B
Selenium			0.10	U	0.11	J	0.10	U	7742
Silver			0.016	U	0.016	U	0.016	U	6020
Sodium			31	J	20	U	20	U	6010B
Thallium			0.016	J	0.020	J	0.023	J	6020
Titanium			2.5	U	2.5	U	2.5	U	6010B
Vanadium			0.04	U	0.04	U	0.04	U	6020
Zinc			1.5	U	1.5	U	1.5	U	6010B

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			30	U	30	U	30	U	6010B
Antimony			-0.051	J	-0.047	J	-0.044	J	6020
Arsenic			0.1	U					6020
Barium			1.5	U	1.5	U	1.5	U	6010B
Beryllium			0.015	J					6020
Cadmium			0.017	J					6020
Calcium			10.0	U	10.0	U	10.0	U	6010B
Chromium			2.0	U	2.0	U	2.0	U	6010B
Cobalt			0.017	J					6020
Copper			3.0	U	3.0	U	3.0	U	6010B
Iron			5.2	J	7.3	J	8.1	J	6010B
Lead			15	U	15	U	15	U	6010B
Magnesium			2.9	J	3.4	J	3.9	J	6010B
Manganese			1.3	J	1.4	J	1.5	J	6010B
Nickel			0.04	U					6020
Potassium			25.0	U	25.0	U	25.0	U	6010B
Selenium			0.10	U	0.10	U	0.10	U	7742
Silver			0.016	U	0.016	U	0.016	U	6020
Sodium			20	U	20	U	20	U	6010B
Thallium			0.024	J					6020
Titanium			2.5	U	2.5	U	2.5	U	6010B
Vanadium			0.04	U					6020
Zinc			1.5	U	1.5	U	1.5	U	6010B

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			30	U	30	U	30	U	6010B
Antimony			-0.047	J	-0.044	J	-0.046	J	6020
Barium			1.5	U	1.5	U	1.5	U	6010B
Calcium			10.0	U	10.0	U	10.0	U	6010B
Chromium			2.0	U	2.0	U	2.0	U	6010B
Copper			3.0	U	3.0	U	3.0	U	6010B
Iron			2.7	J	1.5	U	3.5	J	6010B
Lead			15	U	15	U	15	U	6010B
Magnesium			0.2	U	0.5	J	0.6	J	6010B
Manganese			0.2	U	0.3	J	0.6	J	6010B
Potassium			25.0	U	25.0	U	25.0	U	6010B
Silver			0.016	U	0.016	U	0.016	U	6020
Sodium			20	U	20	U	20	U	6010B
Titanium			2.5	U	2.5	U	2.5	U	6010B
Zinc			1.5	U	1.5	U	1.5	U	6010B

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			30	U					6010B
Antimony			-0.042	J	-0.047	J			6020
Barium			1.5	U					6010B
Calcium			10.0	U					6010B
Chromium			2.0	U					6010B
Copper			4.8	J					6010B
Iron			5.6	J					6010B
Lead			15	U					6010B
Magnesium			0.9	J					6010B
Manganese			0.7	J					6010B
Potassium			25.0	U					6010B
Silver			0.016	U	0.016	U			6020
Sodium			20	U					6010B
Titanium			2.5	U					6010B
Zinc			1.5	U					6010B

Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02 **ICS Source:** Inorganic Ventures

Concentration Units: ug/L

Analyte	True Sol.A	True Sol.AB	Initial Found Sol.A	Initial Found Sol.AB	Initial Found %R	Final Found Sol.A	Final Found Sol.AB	Final Found %R
Aluminum	500000	500000	546418	538104.4	107.6			
Barium		500	-1	448.7	89.7			
Calcium	500000	500000	508898	505300.8	101.1			
Chromium		500	-6	480.8	96.2			
Copper		500	2	458.7	91.7			
Iron	200000	200000	197682	196317.4	98.2			
Lead		1000	-16	939.6	94.0			
Magnesium	500000	500000	525285	521386.8	104.3			
Manganese		500	3	450.9	90.2			
Potassium			-43	-48.3				
Sodium			75	53.4				
Titanium			59	59.8				
Zinc		1000	0	915.5	91.6			

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

Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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
Antimony	0.0		0.1	0.1				
Arsenic	0.0	25.0	-0.1	25.2	101			
Beryllium	0.0		0.0	0.0				
Cadmium	0.0	25.0	0.1	23.4	94			
Cobalt	0.0	50.0	0.8	50.1	100			
Nickel	0.0	50.0	2.1	49.1	98			
Silver	0.0	12.5	0.1	13.1	105			
Thallium	0.0		0.0	0.0				
Vanadium	0.0	50.0	0.0	50.5	101			

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

Columbia Analytical Services

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Windward Environmental, LLC

Service Request: K0911120

Project No.: 09.58.02.41

Units: MG/KG

Project Name: Passaic RI/FS Sediment

Basis: DRY

Matrix: SEDIMENT

% Solids: 73.6

Sample Name: LPRT01ES

Lab Code: K0911120-002S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum		5850		5360		438.29	111.8		6010B
Antimony	10 - 103	76.9		0.557		109.57	69.7		6020
Arsenic	57 - 133	123		13.5		113.22	96.7		6020
Barium	60 - 139	479		45.8		438.29	98.8		6010B
Beryllium	64 - 133	12.3		0.286		11.32	106.1		6020
Cadmium	68 - 137	12.0		0.771		11.32	99.2		6020
Chromium	32 - 170	118		67.1		43.83	116.1		6010B
Cobalt	74 - 118	110		4.280		113.22	93.4		6020
Copper	24 - 173	188		145		54.79	78.5		6010B
Iron		12700		13600		219.14	-410.7		6010B
Lead	46 - 151	188		87.8		109.57	91.4		6010B
Manganese	28 - 181	244		150		109.57	85.8		6010B
Nickel	59 - 132	124		16.5		113.22	94.9		6020
Selenium	57 - 134	2.88		0.17		2.26	119.9		7742
Silver	62 - 131	13.1		0.918		10.96	111.1		6020
Thallium	70 - 128	107		0.179		113.22	94.3		6020
Titanium	75 - 125	778		229		547.86	100.2		6010B
Vanadium	59 - 142	122		11.1		113.22	98.0		6020
Zinc	13 - 172	269		177		109.57	84.0		6010B

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

Columbia Analytical Services

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Windward Environmental, LLC

Service Request: K0911120

Project No.: 09.58.02.41

Units: MG/KG

Project Name: Passaic RI/FS Sediment

Basis: DRY

Matrix: SEDIMENT

% Solids: 80.7

Sample Name: LPRH11AS

Lab Code: K0911120-019S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum		4820		4410		390.29	105.1		6010B
Antimony	10 - 103	59.5		0.303		97.57	60.7		6020
Arsenic	57 - 133	100		2.27		103.26	94.6		6020
Barium	60 - 139	440		45.4		390.29	101.1		6010B
Beryllium	64 - 133	11.0		0.238		10.33	104.2		6020
Cadmium	68 - 137	10.8		0.494		10.33	99.8		6020
Chromium	32 - 170	67.7		25.2		39.03	108.9		6010B
Cobalt	74 - 118	101		4.380		103.26	93.6		6020
Copper	24 - 173	90.8		30.1		48.79	124.4		6010B
Iron		11400		11200		195.14	102.5		6010B
Lead	46 - 151	181		37.3		97.57	147.3		6010B
Manganese	28 - 181	260		165		97.57	97.4		6010B
Nickel	59 - 132	125		8.90		103.26	112.4		6020
Selenium	57 - 134	2.16		0.13		2.07	98.1		7742
Silver	62 - 131	10.5		0.271		9.76	104.8		6020
Thallium	70 - 128	98.7		0.063		103.26	95.5		6020
Titanium	75 - 125	709		193		487.86	105.8		6010B
Vanadium	59 - 142	108		11.7		103.26	93.3		6020
Zinc	13 - 172	213		99.1		97.57	116.7		6010B

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

Metals

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Windward Environmental, LLC

Service Request: K0911120

Project No.: 09.58.02.41

Units: UG/L

Project Name: Passaic RI/FS Sediment

Basis: DRY

Matrix: WATER

Sample Name: LPRT01EA

Lab Code: K0911120-002A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	75 - 125	50.42		0.98		50.0	99		6020
Arsenic	75 - 125	69.1		24.6		50.0	89		6020
Beryllium	75 - 125	45.020		0.522		50.0	89		6020
Cadmium	75 - 125	45.760		1.407		50.0	89		6020
Cobalt	75 - 125	52.550		7.816		50.0	89		6020
Nickel	75 - 125	74.41		30.06		50.0	89		6020
Silver	75 - 125	11.38		1.62		10.0	98		6020
Thallium	75 - 125	46.960		0.328		50.0	93		6020
Vanadium	75 - 125	66.30		20.23		50.0	92		6020

Columbia Analytical Services

Metals

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POST SPIKE SAMPLE RECOVERY

Client: Windward Environmental, LLC

Service Request: K0911120

Project No.: 09.58.02.41

Units: UG/L

Project Name: Passaic RI/FS Sediment

Basis: DRY

Matrix: WATER

Sample Name: LPRH11AA

Lab Code: K0911120-019A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	75 - 125	50.70		0.61		50.0	100		6020
Arsenic	75 - 125	49.4		4.5		50.0	90		6020
Beryllium	75 - 125	46.110		0.473		50.0	91		6020
Cadmium	75 - 125	47.010		0.980		50.0	92		6020
Cobalt	75 - 125	55.330		8.686		50.0	93		6020
Nickel	75 - 125	61.30		17.66		50.0	87		6020
Silver	75 - 125	10.57		0.55		10.0	100		6020
Thallium	75 - 125	47.760		0.125		50.0	95		6020
Vanadium	75 - 125	68.02		23.13		50.0	90		6020

Metals

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DUPLICATES

Client:	Windward Environmental, LLC	Service Request:	K0911120
Project No.:	09.58.02.41	Units:	MG/KG
Project Name:	Passaic RI/FS Sediment	Basis:	DRY
Matrix:	SEDIMENT	% Solids:	73.6

Sample Name: LPRT01ED Lab Code: K0911120-002D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	30	5360		5500		2.6		6010B
Antimony	20	0.557		0.467		17.6		6020
Arsenic	20	13.5		11.5		16.0		6020
Barium	30	45.8		47.0		2.6		6010B
Beryllium	20	0.286		0.258		10.3		6020
Cadmium	20	0.771		0.717		7.3		6020
Calcium	30	1580		1570		0.6		6010B
Chromium	30	67.1		69.0		2.8		6010B
Cobalt	20	4.280		3.970		7.5		6020
Copper	30	145		132		9.4		6010B
Iron	30	13600		13600		0.0		6010B
Lead		87.8		88.7		1.0		6010B
Magnesium	30	3140		3200		1.9		6010B
Manganese	30	150		147		2.0		6010B
Nickel	20	16.5		15.4		6.9		6020
Potassium		1070		1060		0.9		6010B
Selenium		0.17		0.38		76.4		7742
Silver	20	0.918		0.937		2.0		6020
Sodium	30	2660		2590		2.7		6010B
Thallium	20	0.179		0.129		32.5	*	6020
Titanium	30	229		235		2.6		6010B
Vanadium	20	11.1		10.5		5.6		6020
Zinc	30	177		176		0.6		6010B

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

Metals

LABORATORY CONTROL SAMPLE

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Aqueous LCS Source: Solid LCS Source: ERA D045540

Analyte	Aqueous: ug/L True	Found	%R	Solid: mg/kg True	Found	C	Limits		%R
Aluminum				10500	9180		41	158	87.4
Antimony				105	82.5		50	150	78.6
Arsenic				88.3	78.5		78	122	88.9
Barium				432	435		81	119	100.7
Beryllium				58.2	55.4		83	117	95.2
Cadmium				91	85.3		81	119	93.7
Calcium				9630	10300		79	121	107.0
Chromium				144	153		80	119	106.2
Cobalt				190	182		82	118	95.8
Copper				237	264		83	116	111.4
Iron				18900	18100		50	149	95.8
Lead				104	112		79	121	107.7
Magnesium				4040	4310		73	127	106.7
Manganese				497	535		81	119	107.6
Nickel				200	191		81	118	95.5
Potassium				4340	4300		73	126	99.1
Selenium				192	169		80	120	88.0
Silver				76.4	73.9		66	134	96.7
Sodium				735	695		74	126	94.6
Thallium				247	238		79	120	96.4
Titanium				432	489		28	172	113.2
Vanadium				180	162		79	121	90.0
Zinc				292	313		73	121	107.2

Metals

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DUPLICATES

Client: Windward Environmental, LLC
Service Request: K0911120
Project No.: 09.58.02.41
Units: MG/KG
Project Name: Passaic RI/FS Sediment
Basis: DRY
Matrix: SEDIMENT
% Solids: 80.7

Sample Name: LPRH11AD
Lab Code: K0911120-019D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	30	4410		4160		5.8		6010B
Antimony	20	0.303		0.342		12.1		6020
Arsenic		2.27		2.22		2.2		6020
Barium	30	45.4		47.5		4.5		6010B
Beryllium	20	0.238		0.197		18.9		6020
Cadmium	20	0.494		0.500		1.2		6020
Calcium	30	1820		1630		11.0		6010B
Chromium	30	25.2		24.4		3.2		6010B
Cobalt	20	4.380		3.640		18.5		6020
Copper	30	30.1		29.2		3.0		6010B
Iron	30	11200		11400		1.8		6010B
Lead		37.3		35.8		4.1		6010B
Magnesium	30	1540		1350		13.1		6010B
Manganese	30	165		157		5.0		6010B
Nickel	20	8.90		7.33		19.3		6020
Potassium		340		338		0.6		6010B
Selenium		0.13		0.20		42.4		7742
Silver	20	0.271		0.269		0.7		6020
Sodium		97.3		96.0		1.3		6010B
Thallium		0.063		0.047		29.1		6020
Titanium	30	193		194		0.5		6010B
Vanadium	20	11.7		11.5		1.7		6020
Zinc	30	99.1		105		5.8		6010B

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

Metals

LABORATORY CONTROL SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Aqueous LCS Source: **Solid LCS Source:** ERA D045540

Analyte	Aqueous: ug/L True	Found	%R	Solid: mg/kg True	Found	C Limits		%R
Aluminum				10500	8380	41	158	79.8
Antimony				105	88.4	50	150	84.2
Arsenic				88.3	84.6	78	122	95.8
Barium				432	433	81	119	100.2
Beryllium				58.2	61.4	83	117	105.5
Cadmium				91	95.0	81	119	104.4
Calcium				9630	10500	79	121	109.0
Chromium				144	154	80	119	106.9
Cobalt				190	205	82	118	107.9
Copper				237	269	83	116	113.5
Iron				18900	17100	50	149	90.5
Lead				104	102	79	121	98.1
Magnesium				4040	4150	73	127	102.7
Manganese				497	522	81	119	105.0
Nickel				200	214	81	118	107.0
Potassium				4340	4250	73	126	97.9
Selenium				192	403	80	120	209.9
Silver				76.4	82.3	66	134	107.7
Sodium				735	689	74	126	93.7
Thallium				247	257	79	120	104.0
Titanium				432	471	28	172	109.0
Vanadium				180	181	79	121	100.6
Zinc				292	295	73	121	101.0

Metals

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ICP SERIAL DILUTIONS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.41 Units: UG/L

Project Name: Passaic RI/FS Sediment

Sample Name: LPRT01EL Lab Code: K0911120-002L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	23674.99		21976.10		7.2		P
Antimony	0.983		0.811		17		MS
Arsenic	24.6		27.2		11		MS
Barium	202.45		189.05		6.6		P
Beryllium	0.522		0.546		5		MS
Cadmium	1.407		1.546		10		MS
Calcium	6993.66		6392.95		8.6		P
Chromium	296.38		280.65		5.3		P
Cobalt	7.816		8.290		6		MS
Copper	641.79		590.40		8.0		P
Iron	59889.45		55011.25		8.1		P
Lead	387.56		275.85	J	28.8	E	P
Magnesium	12054.28		12424.30		3.1		P
Manganese	661.74		582.20		12.0	E	P
Nickel	30.06		32.38		8		MS
Potassium	4746.61		4334.75	J	8.7		P
Silver	1.621		1.764		9		MS
Sodium	11729.01		10607.05		9.6		P
Thallium	0.328		0.274		16		MS
Titanium	1009.44		916.85		9.2		P
Vanadium	20.23		21.45		6		MS
Zinc	780.02		738.05		5.4		P

Metals

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ICP SERIAL DILUTIONS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41 **Units:** UG/L

Project Name: Passaic RI/FS Sediment

Sample Name: LPRH11AL **Lab Code:** K0911120-019L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	22259.46		21029.05		5.5		P
Antimony	0.612		0.679		11		MS
Arsenic	4.5		4.9	J	9		MS
Barium	229.08		216.95		5.3		P
Beryllium	0.473		0.485		3		MS
Cadmium	0.980		1.054		8		MS
Calcium	9169.81		8638.55		5.8		P
Chromium	127.00		123.00		3.1		P
Cobalt	8.686		9.395		8		MS
Copper	151.83		146.35		3.6		P
Iron	56516.42		53741.40		4.9		P
Lead	188.00		104.85	J	44.2		P
Magnesium	7791.82		7924.75		1.7		P
Manganese	831.70		755.25		9.2		P
Nickel	17.66		19.24		9		MS
Potassium	1713.36		1580.15	J	7.8		P
Silver	0.547		0.855		56		MS
Sodium	490.53		455.60	J	7.1		P
Thallium	0.125		0.107	J	14		MS
Titanium	971.73		916.25		5.7		P
Vanadium	23.13		24.89		8		MS
Zinc	499.71		471.50		5.6		P

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP/ICP-MS ID #:

GFAA ID #: K-FLAA-02 AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Selenium	196.0		0.50	0.10	H

Comments:

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

GFAA ID #: AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	237.3		50	30.0	P
Barium	233.5		10.0	1.5	P
Calcium	211.2		50	10.0	P
Chromium	267.72		10.0	2.0	P
Copper	324.75		10.0	3.0	P
Iron	259.90		20.0	1.5	P
Lead	220.35		100	15.0	P
Magnesium	202.5		20	0.2	P
Manganese	257.61		10.00	0.20	P
Potassium	766.49		1000	25.0	P
Sodium	330.23		100	20.0	P
Titanium	334.94		10	2.5	P
Zinc	206.2		10.0	1.5	P

Comments:

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

GFAA ID #: AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Antimony	123		0.10	0.02	MS
Arsenic	75		1.0	0.1	MS
Beryllium	9		0.040	0.006	MS
Cadmium	111		0.040	0.008	MS
Cobalt	59		0.040	0.002	MS
Nickel	60		0.40	0.04	MS
Silver	109		0.04	0.016	MS
Thallium	205		0.040	0.006	MS
Vanadium	51		0.40	0.04	MS

Comments:

Columbia Analytical Services

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As
Aluminum	308.215	0.0000000	0.0000000	0.0007780	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001540	-0.0001140	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0005570	0.0000000	0.0000000
Cadmium	228.802	0.0000000	0.0000000	0.0001300	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000810	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	-0.0000100	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000740	0.0000000	0.0000000
Phosphorus	214.9	-0.0001980	0.0000000	0.0005620	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	-0.0003360	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	-0.0000740	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	-0.0000720	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	-0.0000050	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0000070	0.0000000	0.0000000

Comments:

Columbia Analytical Services

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Mn	Mo	Ni
Aluminum	308.215	-0.0011010	-0.0027710	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0002800	0.0089500	0.0000000	-0.0171880	0.0000000
Arsenic	189.042	0.0000000	0.0003840	0.0000000	0.0008500	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000730	0.0000000	0.0000000	0.0000240	-0.0001230
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0003120	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	-0.0009310	0.0000960
Copper	324.754	0.0000000	-0.0000360	0.0000000	0.0003860	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0002290	0.0000000	-0.0013930	0.0002420
Magnesium	202.5	0.1731030	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0000940	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0001380	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0003290	0.0000000	0.0000000	0.0000000	-0.0004550
Silicon	228.158	0.0000000	0.0000000	-0.0023220	0.0000000	0.0000000
Silver	328.068	-0.0000370	0.0000000	0.0000670	-0.0005240	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0048980	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0001570	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0002250
Vanadium	292.402	0.0000000	-0.0001040	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	-0.0016570	0.0000000	0.0000220	0.0000000

Comments:

Columbia Analytical Services

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for: P	Ti	V		
Aluminum	308.215	0.0000000	0.0000000	0.0000000		
Antimony	206.838	0.0000000	0.0000000	0.0000000		
Arsenic	189.042	0.0000000	0.0000000	0.0000000		
Barium	493.409	0.0000000	0.0000000	-0.0010740		
Beryllium	313.042	0.0000000	-0.0000310	0.0012250		
Boron	249.678	0.0000000	0.0000000	0.0000000		
Cadmium	228.802	0.0000000	0.0000780	0.0000000		
Calcium	211.2	0.0000000	0.0000000	0.0000000		
Chromium	267.716	0.0000130	0.0000350	-0.0001880		
Cobalt	228.616	0.0000000	0.0015790	0.0000000		
Copper	324.754	0.0000000	0.0000000	-0.0002460		
Iron	271.4	0.0000000	0.0000000	0.0000000		
Lead	220.353	0.0000000	-0.0004290	0.0000000		
Magnesium	202.5	0.0000000	0.0000000	0.0000000		
Manganese	293.9	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000	0.0000000		
Nickel	231.604	0.0000000	0.0000000	0.0000000		
Phosphorus	214.9	0.0000000	0.0080450	-0.0016850		
Potassium	766.491	0.0000000	0.0000000	0.0000000		
Selenium	196.026	0.0000000	0.0000000	0.0000000		
Silicon	228.158	0.0000000	0.0000000	0.0000000		
Silver	328.068	0.0000000	0.0006230	0.0000000		
Sodium	588.995	0.0000000	0.0000000	0.0000000		
Strontium	421.552	0.0000000	-0.0037540	0.0000000		
Thallium	190.864	0.0000000	-0.0014760	0.0015400		
Tin	189.989	0.0000000	0.0000000	0.0000000		
Titanium	334.941	0.0000000	0.0000000	0.0003270		
Vanadium	292.402	0.0000000	0.0000000	0.0000000		
Zinc	213.856	0.0000000	0.0000000	0.0000000		

Comments:

Metals
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ICP LINEAR RANGES (QUARTERLY)

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	5.000	900000	6010B
Barium	5.000	45000	6010B
Calcium	5.000	1800000	6010B
Chromium	5.000	90000	6010B
Copper	5.000	90000	6010B
Iron	5.000	900000	6010B
Lead	5.000	90000	6010B
Magnesium	5.000	900000	6010B
Manganese	5.000	180000	6010B
Potassium	5.000	450000	6010B
Sodium	5.000	180000	6010B
Titanium	5.000	90000	6010B
Zinc	5.000	90000	6010B

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-MS-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony	15.000	900	6020
Arsenic	15.000	900	6020
Beryllium	15.000	450	6020
Cadmium	15.000	900	6020
Cobalt	15.000	900	6020
Nickel	15.000	900	6020
Silver	15.000	270	6020
Thallium	15.000	450	6020
Vanadium	15.000	900	6020

Comments:

Metals
-13-
PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: F

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K0911120-001	11/24/09	2.26	100.0
K0911120-002	11/24/09	1.23	100.0
K0911120-002D	11/24/09	1.23	100.0
K0911120-002S	11/24/09	1.20	100.0
K0911120-003	11/24/09	1.87	100.0
K0911120-004	11/24/09	1.83	100.0
K0911120-005	11/24/09	2.21	100.0
K0911120-006	11/24/09	2.22	100.0
K0911120-007	11/24/09	1.04	100.0
K0911120-008	11/24/09	1.28	100.0
K0911120-009	11/24/09	2.25	100.0
K0911120-010	11/24/09	1.88	100.0
K0911120-011	11/24/09	2.24	100.0
K0911120-012	11/24/09	2.24	100.0
K0911120-013	11/24/09	2.21	100.0
K0911120-014	11/24/09	2.79	100.0
K0911120-015	11/24/09	2.22	100.0
K0911120-016	11/24/09	1.83	100.0
K0911120-017	11/24/09	1.84	100.0
K0911120-018	11/24/09	1.85	100.0
K0911120-MB	11/24/09	1.00	100.0
LCSS	11/24/09	1.02	100.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: F

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911120-019	11/24/2009	1.21	100.0
K0911120-019D	11/24/2009	1.21	100.0
K0911120-019S	11/24/2009	1.20	100.0
K0911120-020	11/24/2009	1.27	100.0
K0911120-021	11/24/2009	1.25	100.0
K0911120-022	11/24/2009	1.45	100.0
K0911120-MB2	11/24/2009	1.00	100.0
LCSS2	11/24/2009	1.02	100.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911120-001	11/24/2009	2.23	100.0
K0911120-002	11/24/2009	1.20	100.0
K0911120-002D	11/24/2009	1.21	100.0
K0911120-002S	11/24/2009	1.24	100.0
K0911120-003	11/24/2009	1.88	100.0
K0911120-004	11/24/2009	1.87	100.0
K0911120-005	11/24/2009	2.26	100.0
K0911120-006	11/24/2009	2.20	100.0
K0911120-007	11/24/2009	1.07	100.0
K0911120-008	11/24/2009	1.29	100.0
K0911120-009	11/24/2009	2.21	100.0
K0911120-010	11/24/2009	1.80	100.0
K0911120-011	11/24/2009	2.26	100.0
K0911120-012	11/24/2009	2.21	100.0
K0911120-013	11/24/2009	2.22	100.0
K0911120-014	11/24/2009	2.79	100.0
K0911120-015	11/24/2009	2.29	100.0
K0911120-016	11/24/2009	1.83	100.0
K0911120-017	11/24/2009	1.88	100.0
K0911120-018	11/24/2009	1.87	100.0
K0911120-MB	11/24/2009	1.00	100.0
LCSS	11/24/2009	1.01	100.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911120-019	11/24/2009	1.25	100.0
K0911120-019D	11/24/2009	1.22	100.0
K0911120-019S	11/24/2009	1.27	100.0
K0911120-020	11/24/2009	1.28	100.0
K0911120-021	11/24/2009	1.23	100.0
K0911120-022	11/24/2009	1.46	100.0
K0911120-MB2	11/24/2009	1.00	100.0
LCSS2	11/24/2009	1.02	100.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911120-001	11/24/2009	2.28	100.0
K0911120-002	11/24/2009	1.24	100.0
K0911120-002D	11/24/2009	1.22	100.0
K0911120-002S	11/24/2009	1.20	100.0
K0911120-003	11/24/2009	1.83	100.0
K0911120-004	11/24/2009	1.87	100.0
K0911120-005	11/24/2009	2.21	100.0
K0911120-006	11/24/2009	2.22	100.0
K0911120-007	11/24/2009	1.09	100.0
K0911120-008	11/24/2009	1.21	100.0
K0911120-009	11/24/2009	2.27	100.0
K0911120-010	11/24/2009	1.87	100.0
K0911120-011	11/24/2009	2.27	100.0
K0911120-012	11/24/2009	2.25	100.0
K0911120-013	11/24/2009	2.22	100.0
K0911120-014	11/24/2009	2.77	100.0
K0911120-015	11/24/2009	2.20	100.0
K0911120-016	11/24/2009	1.87	100.0
K0911120-017	11/24/2009	1.82	100.0
K0911120-018	11/24/2009	1.80	100.0
K0911120-MB	11/24/2009	1.00	100.0
LCSS	11/24/2009	1.02	100.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911120-019	11/24/2009	1.23	100.0
K0911120-019D	11/24/2009	1.22	100.0
K0911120-019S	11/24/2009	1.20	100.0
K0911120-020	11/24/2009	1.20	100.0
K0911120-021	11/24/2009	1.28	100.0
K0911120-022	11/24/2009	1.46	100.0
K0911120-MB2	11/24/2009	1.00	100.0
LCSS2	11/24/2009	1.03	100.0

Metals
-13-
PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K0911120-001	11/24/2009	2.23	100.0
K0911120-002	11/24/2009	1.20	100.0
K0911120-002D	11/24/2009	1.21	100.0
K0911120-002S	11/24/2009	1.24	100.0
K0911120-003	11/24/2009	1.88	100.0
K0911120-004	11/24/2009	1.87	100.0
K0911120-005	11/24/2009	2.26	100.0
K0911120-006	11/24/2009	2.20	100.0
K0911120-007	11/24/2009	1.07	100.0
K0911120-008	11/24/2009	1.29	100.0
K0911120-009	11/24/2009	2.21	100.0
K0911120-010	11/24/2009	1.80	100.0
K0911120-011	11/24/2009	2.26	100.0
K0911120-012	11/24/2009	2.21	100.0
K0911120-013	11/24/2009	2.22	100.0
K0911120-014	11/24/2009	2.79	100.0
K0911120-015	11/24/2009	2.29	100.0
K0911120-016	11/24/2009	1.83	100.0
K0911120-017	11/24/2009	1.88	100.0
K0911120-018	11/24/2009	1.87	100.0
K0911120-MB	11/24/2009	1.00	100.0
LCSS	11/24/2009	1.01	100.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
K0911120-019	11/24/2009	1.25	100.0
K0911120-019D	11/24/2009	1.22	100.0
K0911120-019S	11/24/2009	1.27	100.0
K0911120-020	11/24/2009	1.28	100.0
K0911120-021	11/24/2009	1.23	100.0
K0911120-022	11/24/2009	1.46	100.0
K0911120-MB2	11/24/2009	1.00	100.0
LCSS2	11/24/2009	1.02	100.0

Columbia Analytical Services

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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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	09:40																			X						
STD 0.5	1	09:43																			X						
STD 1.0	1	09:45																			X						
STD 5.0	1	09:47																			X						
STD 7.5	1	09:50																			X						
STD 10.0	1	09:52																			X						
ICV1	1	09:55																			X						
ICB1	1	09:57																			X						
CRA	1	09:59																			X						
CCV1	1	10:02																			X						
CCB1	1	10:04																			X						
ZZZZZZ	2	10:07																									
LCSS	2,000	10:09																			X						
K0911120-001	2	10:11																			X						
ZZZZZZ	2	10:14																									
ZZZZZZ	2	10:16																									
ZZZZZZ	2	10:18																									
K0911120-002D	2	10:21																			X						
ZZZZZZ	1	10:23																									
K0911120-002S	10	10:26																			X						
ZZZZZZ	10	10:28																									
CCV2	1	10:30																			X						
CCB2	1	10:33																			X						
K0911120-003	2	10:35																			X						
ZZZZZZ	2	10:37																									
K0911120-004	2	10:40																			X						
ZZZZZZ	2	10:42																									
ZZZZZZ	2	10:45																									
ZZZZZZ	2	10:47																									
K0911120-006	2	10:49																			X						
ZZZZZZ	2	10:52																									
K0911120-007	2	10:54																			X						

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

Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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	2	10:57																									
CCV3	1	10:59																			X						
CCB3	1	11:01																			X						
K0911120-008	2	11:04																			X						
ZZZZZZ	2	11:06																									
ZZZZZZ	2	11:09																									
ZZZZZZ	2	11:11																									
K0911120-010	2	11:13																			X						
ZZZZZZ	2	11:16																									
ZZZZZZ	2	11:18																									
ZZZZZZ	2	11:20																									
K0911120-012	2	11:23																			X						
ZZZZZZ	2	11:25																									
CCV4	1	11:27																			X						
CCB4	1	11:30																			X						
ZZZZZZ	2	11:32																									
ZZZZZZ	2	11:35																									
ZZZZZZ	2	11:37																									
ZZZZZZ	2	11:39																									
K0911120-015	2	11:42																			X						
ZZZZZZ	2	11:44																									
K0911120-016	2	11:47																			X						
ZZZZZZ	2	11:49																									
K0911120-017	2	11:51																			X						
ZZZZZZ	2	11:54																									
CCV5	1	11:56																			X						
CCB5	1	11:59																			X						
K0911120-018	2	12:01																			X						
ZZZZZZ	2	12:03																									
K0911120-MB2	2	12:05																			X						
LCSS2	1,000	12:08																			X						
K0911120-019	2	12:10																			X						

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

Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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	2	12:13																									
K0911120-019D	2	12:15																			X						
ZZZZZZ	5	12:17																									
K0911120-019S	10	12:20																			X						
ZZZZZZ	10	12:22																									
CCV6	1	12:24																			X						
CCB6	1	12:27																			X						
K0911120-020	2	12:29																			X						
ZZZZZZ	2	12:32																									
K0911120-021	2	12:34																			X						
ZZZZZZ	2	12:36																									
K0911120-022	2	12:39																			X						
ZZZZZZ	2	12:41																									
CCV7	1	12:43																			X						
CCB7	1	12:46																			X						
K0911120-MB	2	12:49																			X						
K0911120-002	2	12:51																			X						
ZZZZZZ	2	12:55																									
K0911120-005	2	12:57																			X						
ZZZZZZ	2	12:59																									
ZZZZZZ	2	13:02																									
K0911120-009	2	13:05																			X						
ZZZZZZ	2	13:07																									
K0911120-011	2	13:10																			X						
K0911120-013	2	13:13																			X						
CCV8	1	13:15																			X						
CCB8	1	13:18																			X						
ZZZZZZ	2	13:20																									
ZZZZZZ	2	13:24																									
K0911120-014	2	13:27																			X						
ZZZZZZ	2	13:30																									
ZZZZZZ	2	13:32																									

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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
CCV9	1	13:35																			X						
CCB9	1	13:38																			X						

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

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/1/2009 **End Date:** 12/1/2009

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	
Blank	1	09:03		X			X			X				X		X	X			X			X			X		
STDB	1	09:06		X			X			X				X		X	X			X			X					
STDA	1	09:09								X				X		X	X									X		
ICV1	1	09:12		X			X			X	X		X	X	X	X	X			X			X			X		*
ICV1	1	09:15								X				X		X	X											
ZZZZZZ	1	09:18																										
ICB1	1	09:21		X			X			X	X		X	X	X	X	X			X			X			X		*
CCV1	1	09:26		X			X			X				X		X	X			X			X					
CCV1	1	09:31								X	X		X	X	X	X	X									X		*
CCB1	1	09:37		X			X			X	X		X	X	X	X	X			X			X			X		*
CRDL1	1	09:40		X			X			X	X		X	X	X	X	X			X			X			X		*
ICS-A1	1	09:43		X			X			X	X		X	X	X	X	X			X			X			X		*
ICS-AB1	1	09:46		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	09:50																										
CCV2	1	09:53		X			X			X				X		X	X			X			X					
CCV2	1	09:56								X	X		X	X	X	X	X									X		*
CCB2	1	09:59		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	10:02																										
ZZZZZZ	1	10:05																										
ZZZZZZ	1	10:08																										
ZZZZZZ	1	10:11																										
ZZZZZZ	5	10:14																										
ZZZZZZ	1	10:17																										
ZZZZZZ	1	10:20																										
ZZZZZZ	1	10:23																										
ZZZZZZ	1	10:26																										
ZZZZZZ	1	10:29																										
CCV3	1	10:32		X			X			X				X		X	X			X			X					
CCV3	1	10:36								X	X		X	X	X	X	X									X		*
CCB3	1	10:39		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	10:42																										
ZZZZZZ	1	10:45																										

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

Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/1/2009 **End Date:** 12/1/2009

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	10:48																										
ZZZZZZ	1	10:51																										
ZZZZZZ	1	10:54																										
ZZZZZZ	1	10:57																										
ZZZZZZ	1	11:00																										
ZZZZZZ	1	11:03																										
ZZZZZZ	1	11:06																										
ZZZZZZ	1	11:09																										
CCV4	1	11:12		X			X			X				X		X	X			X			X					
CCV4	1	11:15								X	X		X	X	X	X	X									X		*
CCB4	1	11:18		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	11:26																										
ZZZZZZ	1	11:29																										
ZZZZZZ	1	11:32																										
ZZZZZZ	1	11:35																										
ZZZZZZ	1	11:39																										
ZZZZZZ	1	11:42																										
ZZZZZZ	1	11:45																										
ZZZZZZ	1	11:48																										
ZZZZZZ	1	11:51																										
ZZZZZZ	1	11:54																										
CCV5	1	11:57		X			X			X				X		X	X			X			X					
CCV5	1	12:00								X	X		X	X	X	X	X									X		*
CCB5	1	12:03		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	12:07																										
ZZZZZZ	1	12:10																										
ZZZZZZ	1	12:13																										
ZZZZZZ	1	12:16																										
ZZZZZZ	1	12:19																										
ZZZZZZ	1	12:23																										
ZZZZZZ	1	12:26																										
ZZZZZZ	1	12:29																										

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/1/2009 **End Date:** 12/1/2009

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	12:32																										
ZZZZZZ	1	12:35																										
CCV6	1	12:38		X			X			X				X		X	X			X			X					
CCV6	1	12:41								X	X		X	X	X	X	X									X		*
CCB6	1	12:44		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	12:47																										
ZZZZZZ	1	12:50																										
ZZZZZZ	2	12:53																										
ZZZZZZ	50	12:56																										
ZZZZZZ	2	12:59																										
ZZZZZZ	2	13:02																										
ZZZZZZ	10	13:05																										
ZZZZZZ	2	13:08																										
ZZZZZZ	2	13:11																										
ZZZZZZ	2	13:14																										
CCV7	1	13:17		X			X			X				X		X	X			X			X					
CCV7	1	13:20								X	X		X	X	X	X	X									X		*
CCB7	1	13:23		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	2	13:26																										
ZZZZZZ	2	13:29																										
ZZZZZZ	2	13:33																										
ZZZZZZ	2	13:36																										
ZZZZZZ	2	13:39																										
ZZZZZZ	2	13:42																										
ZZZZZZ	2	13:45																										
ZZZZZZ	2	13:48																										
ZZZZZZ	2	13:51																										
ZZZZZZ	2	13:54																										
CCV8	1	13:57		X			X			X				X		X	X			X			X					
CCV8	1	14:00								X	X		X	X	X	X	X									X		*
CCB8	1	14:03		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	2	14:06																										

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/1/2009 **End Date:** 12/1/2009

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	2	14:09																											
ZZZZZZ	2	14:12																											
ZZZZZZ	2	14:15																											
ZZZZZZ	2	14:18																											
ZZZZZZ	2	14:21																											
ZZZZZZ	1	14:24																											
CCV9	1	14:27		X			X			X				X		X	X			X			X						
CCV9	1	14:30								X	X		X	X	X	X	X									X		*	
CCB9	1	14:33		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-MB	2	14:40		X			X			X	X		X	X	X	X	X			X			X			X		*	
LCSS	2	14:43		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-002	2	14:46		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-002D	2	14:49		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-002L	10	14:52		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-002S	2	14:55		X			X				X		X	X	X		X									X		*	
K0911120-001	2	14:58		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-003	2	15:01		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-004	2	15:04		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-005	2	15:07		X			X			X	X		X	X	X	X	X			X			X			X		*	
CCV10	1	15:10		X			X			X				X		X	X			X			X						
CCV10	1	15:13								X	X		X	X	X	X	X									X		*	
CCB10	1	15:16		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-006	2	15:19		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-007	2	15:22		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-008	2	15:25		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-009	2	15:28		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-010	2	15:31		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-011	2	15:34		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-012	2	15:37		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-013	2	15:40		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-014	2	15:43		X			X			X	X		X	X	X	X	X			X			X			X		*	
K0911120-015	2	15:46		X			X			X	X		X	X	X	X	X			X			X			X		*	

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/1/2009 **End Date:** 12/1/2009

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	
CCV11	1	15:49		X			X			X				X		X	X			X			X					
ZZZZZZ	1	15:52																										
CCV11	1	16:01								X	X		X	X	X	X	X									X		*
CCB11	1	16:06		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-016	2	16:22		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-017	2	16:25		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-018	2	16:28		X			X			X	X		X	X	X	X	X			X			X			X		*
ZZZZZZ	1	16:31																										
K0911120-MB2	2	16:34		X			X			X	X		X	X	X	X	X			X			X			X		*
LCSS2	2	16:37		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-019	2	16:40		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-019D	2	16:43		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-019L	10	16:46		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-019S	2	16:49		X			X				X		X	X	X		X									X		*
CCV12	1	16:52		X			X			X				X		X	X			X			X					
CCV12	1	16:55								X	X		X	X	X	X	X									X		*
CCB12	1	16:58		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-020	2	17:01		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-021	2	17:04		X			X			X	X		X	X	X	X	X			X			X			X		*
K0911120-022	2	17:08		X			X			X	X		X	X	X	X	X			X			X			X		*
CCV13	1	17:11		X			X			X				X		X	X			X			X					
CCV13	1	17:14								X	X		X	X	X	X	X									X		*
CCB13	1	17:17		X			X			X	X		X	X	X	X	X			X			X			X		*

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P
Start Date: 12/1/2009 **End Date:** 12/1/2009

Sample No.	D/F	Time	% R	Analytes																								
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U											
Blank	1.00	09:03																										
STDB	1.00	09:06																										
STDA	1.00	09:09																										
ICV1	1.00	09:12														X												
ICV1	1.00	09:15																										
ZZZZZZ	1.00	09:18																										
ICB1	1.00	09:21														X												
CCV1	1.00	09:26																										
CCV1	1.00	09:31														X												
CCB1	1.00	09:37														X												
CRDL1	1.00	09:40														X												
ICS-A1	1.00	09:43														X												
ICS-AB1	1.00	09:46														X												
ZZZZZZ	1.00	09:50																										
CCV2	1.00	09:53																										
CCV2	1.00	09:56														X												
CCB2	1.00	09:59														X												
ZZZZZZ	1.00	10:02																										
ZZZZZZ	1.00	10:05																										
ZZZZZZ	1.00	10:08																										
ZZZZZZ	1.00	10:11																										
ZZZZZZ	5.00	10:14																										
ZZZZZZ	1.00	10:17																										
ZZZZZZ	1.00	10:20																										
ZZZZZZ	1.00	10:23																										
ZZZZZZ	1.00	10:26																										
ZZZZZZ	1.00	10:29																										
CCV3	1.00	10:32																										
CCV3	1.00	10:36														X												
CCB3	1.00	10:39														X												
ZZZZZZ	1.00	10:42																										
ZZZZZZ	1.00	10:45																										
ZZZZZZ	1.00	10:48																										
ZZZZZZ	1.00	10:51																										

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P
Start Date: 12/1/2009 **End Date:** 12/1/2009

Sample No.	D/F	Time	% R	Analytes																								
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U											
ZZZZZZ	1.00	10:54																										
ZZZZZZ	1.00	10:57																										
ZZZZZZ	1.00	11:00																										
ZZZZZZ	1.00	11:03																										
ZZZZZZ	1.00	11:06																										
ZZZZZZ	1.00	11:09																										
CCV4	1.00	11:12																										
CCV4	1.00	11:15														X												
CCB4	1.00	11:18														X												
ZZZZZZ	1.00	11:26																										
ZZZZZZ	1.00	11:29																										
ZZZZZZ	1.00	11:32																										
ZZZZZZ	1.00	11:35																										
ZZZZZZ	1.00	11:39																										
ZZZZZZ	1.00	11:42																										
ZZZZZZ	1.00	11:45																										
ZZZZZZ	1.00	11:48																										
ZZZZZZ	1.00	11:51																										
ZZZZZZ	1.00	11:54																										
CCV5	1.00	11:57																										
CCV5	1.00	12:00														X												
CCB5	1.00	12:03														X												
ZZZZZZ	1.00	12:07																										
ZZZZZZ	1.00	12:10																										
ZZZZZZ	1.00	12:13																										
ZZZZZZ	1.00	12:16																										
ZZZZZZ	1.00	12:19																										
ZZZZZZ	1.00	12:23																										
ZZZZZZ	1.00	12:26																										
ZZZZZZ	1.00	12:29																										
ZZZZZZ	1.00	12:32																										
ZZZZZZ	1.00	12:35																										
CCV6	1.00	12:38																										
CCV6	1.00	12:41														X												

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P
Start Date: 12/1/2009 **End Date:** 12/1/2009

Sample No.	D/F	Time	% R	Analytes																								
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U											
CCB6	1.00	12:44														X												
ZZZZZZ	1.00	12:47																										
ZZZZZZ	1.00	12:50																										
ZZZZZZ	2.00	12:53																										
ZZZZZZ	50.00	12:56																										
ZZZZZZ	2.00	12:59																										
ZZZZZZ	2.00	13:02																										
ZZZZZZ	10.00	13:05																										
ZZZZZZ	2.00	13:08																										
ZZZZZZ	2.00	13:11																										
ZZZZZZ	2.00	13:14																										
CCV7	1.00	13:17																										
CCV7	1.00	13:20														X												
CCB7	1.00	13:23														X												
ZZZZZZ	2.00	13:26																										
ZZZZZZ	2.00	13:29																										
ZZZZZZ	2.00	13:33																										
ZZZZZZ	2.00	13:36																										
ZZZZZZ	2.00	13:39																										
ZZZZZZ	2.00	13:42																										
ZZZZZZ	2.00	13:45																										
ZZZZZZ	2.00	13:48																										
ZZZZZZ	2.00	13:51																										
ZZZZZZ	2.00	13:54																										
CCV8	1.00	13:57																										
CCV8	1.00	14:00														X												
CCB8	1.00	14:03														X												
ZZZZZZ	2.00	14:06																										
ZZZZZZ	2.00	14:09																										
ZZZZZZ	2.00	14:12																										
ZZZZZZ	2.00	14:15																										
ZZZZZZ	2.00	14:18																										
ZZZZZZ	2.00	14:21																										
ZZZZZZ	1.00	14:24																										

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P
Start Date: 12/1/2009 **End Date:** 12/1/2009

Sample No.	D/F	Time	% R	Analytes																								
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U											
CCV9	1.00	14:27																										
CCV9	1.00	14:30														X												
CCB9	1.00	14:33														X												
K0911120-MB	2.00	14:40														X												
LCSS	2.00	14:43														X												
K0911120-002	2.00	14:46														X												
K0911120-002D	2.00	14:49														X												
K0911120-002L	10.00	14:52														X												
K0911120-002S	2.00	14:55														X												
K0911120-001	2.00	14:58														X												
K0911120-003	2.00	15:01														X												
K0911120-004	2.00	15:04														X												
K0911120-005	2.00	15:07														X												
CCV10	1.00	15:10																										
CCV10	1.00	15:13														X												
CCB10	1.00	15:16														X												
K0911120-006	2.00	15:19														X												
K0911120-007	2.00	15:22														X												
K0911120-008	2.00	15:25														X												
K0911120-009	2.00	15:28														X												
K0911120-010	2.00	15:31														X												
K0911120-011	2.00	15:34														X												
K0911120-012	2.00	15:37														X												
K0911120-013	2.00	15:40														X												
K0911120-014	2.00	15:43														X												
K0911120-015	2.00	15:46														X												
CCV11	1.00	15:49																										
ZZZZZZ	1.00	15:52																										
CCV11	1.00	16:01														X												
CCB11	1.00	16:06														X												
K0911120-016	2.00	16:22														X												
K0911120-017	2.00	16:25														X												
K0911120-018	2.00	16:28														X												
ZZZZZZ	1.00	16:31																										

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P
Start Date: 12/1/2009 **End Date:** 12/1/2009

Sample No.	D/F	Time	% R	Analytes																								
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U											
K0911120-MB2	2.00	16:34														X												
LCSS2	2.00	16:37														X												
K0911120-019	2.00	16:40														X												
K0911120-019D	2.00	16:43														X												
K0911120-019L	10.00	16:46														X												
K0911120-019S	2.00	16:49														X												
CCV12	1.00	16:52																										
CCV12	1.00	16:55														X												
CCB12	1.00	16:58														X												
K0911120-020	2.00	17:01														X												
K0911120-021	2.00	17:04														X												
K0911120-022	2.00	17:08														X												
CCV13	1.00	17:11																										
CCV13	1.00	17:14														X												
CCB13	1.00	17:17														X												

Columbia Analytical Services

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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	10:56				X		X	X			X							X					X	X		
Cal. Stn	1	10:59				X		X	X			X							X					X	X		
ICV1	1	11:02				X		X	X			X							X					X	X		
CCV1	1	11:05				X		X	X			X							X					X	X		
ICB1	1	11:08				X		X	X			X							X					X	X		
CCB1	1	11:11				X		X	X			X							X					X	X		
CRA	1	11:14				X		X	X			X							X					X	X		
ICS-A1	1	11:17				X		X	X			X							X					X	X		
ICS-AB1	1	11:20				X		X	X			X							X					X	X		
ZZZZZZ	5	11:23																									
ZZZZZZ	50	11:26																									
ZZZZZZ	5	11:29																									
ZZZZZZ	5	11:33																									
ZZZZZZ	25	11:36																									
ZZZZZZ	5	11:39																									
ZZZZZZ	25	11:42																									
ZZZZZZ	5	11:45																									
ZZZZZZ	5	11:48																									
ZZZZZZ	5	11:51																									
CCV2	1	11:54				X		X	X			X							X					X	X		
CCB2	1	11:58				X		X	X			X							X					X	X		
ZZZZZZ	5	12:01																									
ZZZZZZ	5	12:04																									
ZZZZZZ	5	12:07																									
ZZZZZZ	5	12:10																									
ZZZZZZ	5	12:13																									
ZZZZZZ	5	12:16																									
ZZZZZZ	5	12:19																									
ZZZZZZ	5	12:22																									
ZZZZZZ	5	12:25																									
ZZZZZZ	5	12:29																									
CCV3	1	12:32				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

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	12:35				X		X	X			X							X					X	X		
ZZZZZZ	5	12:38																									
ZZZZZZ	5	12:41																									
ZZZZZZ	5	12:44																									
ZZZZZZ	5	12:47																									
ZZZZZZ	5	12:50																									
ZZZZZZ	5	12:53																									
K0911120-MB	5	12:56				X		X	X			X							X					X	X		
LCSS	50	12:59				X		X	X			X							X					X	X		
K0911120-002	5	13:02				X		X	X			X							X					X	X		
K0911120-002D	5	13:06				X		X	X			X							X					X	X		
CCV4	1	13:09				X		X	X			X							X					X	X		
CCB4	1	13:12				X		X	X			X							X					X	X		
K0911120-002L	25	13:15				X		X	X			X							X					X	X		
K0911120-002A	5	13:18				X		X	X			X							X					X	X		
K0911120-002S	25	13:21				X		X	X			X							X					X	X		
K0911120-001	5	13:24				X		X	X			X							X					X	X		
K0911120-003	5	13:27				X		X	X			X							X					X	X		
K0911120-004	5	13:30				X		X	X			X							X					X	X		
K0911120-005	5	13:34				X		X	X			X							X					X	X		
K0911120-006	5	13:37				X		X	X			X							X					X	X		
K0911120-007	5	13:40				X		X	X			X							X					X	X		
K0911120-008	5	13:43				X		X	X			X							X					X	X		
CCV5	1	13:46				X		X	X			X							X					X	X		
CCB5	1	13:49				X		X	X			X							X					X	X		
K0911120-009	5	13:52				X		X	X			X							X					X	X		
K0911120-010	5	13:55				X		X	X			X							X					X	X		
K0911120-011	5	13:59				X		X	X			X							X					X	X		
K0911120-012	5	14:02				X		X	X			X							X					X	X		
K0911120-013	5	14:05				X		X	X			X							X					X	X		
K0911120-014	5	14:08				X		X	X			X							X					X	X		
K0911120-015	5	14:11				X		X	X			X							X					X	X		

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Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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
K0911120-016	5	14:14				X		X	X			X							X					X	X		
K0911120-017	5	14:17				X		X	X			X							X					X	X		
K0911120-018	5	14:20				X		X	X			X							X					X	X		
CCV6	1	14:23				X		X	X			X							X					X	X		
CCB6	1	14:26				X		X	X			X							X					X	X		
K0911120-MB2	5	14:29				X		X	X			X							X					X	X		
LCSS2	50	14:32				X		X	X			X							X					X	X		
K0911120-019	5	14:35				X		X	X			X							X					X	X		
K0911120-019D	5	14:38				X		X	X			X							X					X	X		
K0911120-019L	25	14:41				X		X	X			X							X					X	X		
K0911120-019A	5	14:44				X		X	X			X							X					X	X		
K0911120-019S	25	14:47				X		X	X			X							X					X	X		
K0911120-020	5	14:50				X		X	X			X							X					X	X		
K0911120-021	5	14:53				X		X	X			X							X					X	X		
K0911120-022	5	14:57				X		X	X			X							X					X	X		
CCV7	1	15:00				X		X	X			X							X					X	X		
CCB7	1	15:03				X		X	X			X							X					X	X		

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Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	15:38			X																	X					
Cal. Stn	1	15:40			X																	X					
ICV1	1	15:41			X																	X					
CCV1	1	15:43			X																	X					
ICB1	1	15:46			X																	X					
CCB1	1	15:48			X																	X					
CRA	1	15:50			X																	X					
ICS-A1	1	15:53			X																	X					
ICS-AB1	1	15:56			X																	X					
ZZZZZZ	1	15:59																									
ZZZZZZ	1	16:00																									
ZZZZZZ	1	16:04																									
ZZZZZZ	1	16:06																									
ZZZZZZ	1	16:09																									
ZZZZZZ	1	16:12																									
ZZZZZZ	1	16:15																									
ZZZZZZ	1	16:17																									
ZZZZZZ	1	16:20																									
ZZZZZZ	1	16:23																									
CCV2	1	16:25			X																	X					
CCB2	1	16:28			X																	X					
ZZZZZZ	1	16:30																									
ZZZZZZ	1	16:33																									
ZZZZZZ	1	16:35																									
ZZZZZZ	1	16:38																									
ZZZZZZ	1	16:41																									
ZZZZZZ	1	16:44																									
ZZZZZZ	1	16:46																									
ZZZZZZ	5	16:49																									
ZZZZZZ	50	16:51																									
CCV3	1	16:54			X																	X					
CCB3	1	16:57			X																	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: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	5	16:59																									
ZZZZZZ	5	17:02																									
ZZZZZZ	25	17:05																									
ZZZZZZ	5	17:08																									
ZZZZZZ	25	17:11																									
ZZZZZZ	5	17:14																									
ZZZZZZ	5	17:17																									
ZZZZZZ	5	17:20																									
ZZZZZZ	5	17:23																									
ZZZZZZ	5	17:26																									
CCV4	1	17:29			X																	X					
CCB4	1	17:32			X																	X					
ZZZZZZ	5	17:33																									
ZZZZZZ	5	17:36																									
ZZZZZZ	5	17:39																									
ZZZZZZ	5	17:42																									
ZZZZZZ	5	17:45																									
ZZZZZZ	5	17:48																									
ZZZZZZ	5	17:51																									
ZZZZZZ	5	17:54																									
ZZZZZZ	5	17:57																									
ZZZZZZ	5	17:59																									
CCV5	1	18:02			X																	X					
CCB5	1	18:05			X																	X					
ZZZZZZ	5	18:07																									
ZZZZZZ	5	18:10																									
ZZZZZZ	5	18:13																									
ZZZZZZ	1	18:16																									
ZZZZZZ	5	18:19																									
ZZZZZZ	50	18:21																									
ZZZZZZ	5	18:24																									
ZZZZZZ	5	18:27																									

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	25	18:30																									
ZZZZZZ	5	18:32																									
CCV6	1	18:35			X																	X					
CCB6	1	18:38			X																	X					
ZZZZZZ	25	18:40																									
ZZZZZZ	5	18:43																									
ZZZZZZ	5	18:46																									
ZZZZZZ	5	18:49																									
ZZZZZZ	5	18:52																									
ZZZZZZ	5	18:55																									
ZZZZZZ	5	18:57																									
ZZZZZZ	5	19:00																									
ZZZZZZ	5	19:03																									
ZZZZZZ	5	19:06																									
CCV7	1	19:09			X																	X					
CCB7	1	19:12			X																	X					
ZZZZZZ	5	19:14																									
ZZZZZZ	5	19:17																									
ZZZZZZ	5	19:20																									
ZZZZZZ	5	19:23																									
ZZZZZZ	5	19:25																									
ZZZZZZ	5	19:28																									
ZZZZZZ	5	19:31																									
ZZZZZZ	5	19:34																									
ZZZZZZ	5	19:37																									
CCV8	1	19:40			X																	X					
CCB8	1	19:43			X																	X					
ZZZZZZ	5	19:45																									
ZZZZZZ	50	19:47																									
ZZZZZZ	5	19:50																									
ZZZZZZ	5	19:53																									
ZZZZZZ	25	19:56																									

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	5	19:59																									
ZZZZZZ	25	20:02																									
ZZZZZZ	5	20:05																									
ZZZZZZ	5	20:08																									
ZZZZZZ	5	20:11																									
CCV9	1	20:13			X																	X					
CCB9	1	20:16			X																	X					
ZZZZZZ	5	20:18																									
ZZZZZZ	5	20:21																									
ZZZZZZ	5	20:24																									
ZZZZZZ	5	20:27																									
ZZZZZZ	5	20:30																									
ZZZZZZ	5	20:33																									
ZZZZZZ	5	20:36																									
ZZZZZZ	5	20:39																									
ZZZZZZ	5	20:42																									
ZZZZZZ	5	20:45																									
CCV10	1	20:48			X																	X					
CCB10	1	20:51			X																	X					
ZZZZZZ	5	20:53																									
ZZZZZZ	5	20:56																									
ZZZZZZ	5	20:59																									
ZZZZZZ	5	21:02																									
ZZZZZZ	5	21:05																									
ZZZZZZ	5	21:07																									
K0911120-MB	5	21:10			X																	X					
LCSS	50	21:12			X																	X					
K0911120-002	5	21:15			X																	X					
K0911120-002D	5	21:18			X																	X					
CCV11	1	21:21			X																	X					
CCB11	1	21:24			X																	X					
K0911120-002L	25	21:26			X																	X					

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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
K0911120-002A	5	21:29			X																	X					
K0911120-002S	25	21:32			X																	X					
K0911120-001	5	21:35			X																	X					
K0911120-003	5	21:38			X																	X					
K0911120-004	5	21:41			X																	X					
K0911120-005	5	21:44			X																	X					
K0911120-006	5	21:47			X																	X					
K0911120-007	5	21:50			X																	X					
K0911120-008	5	21:53			X																	X					
CCV12	1	21:56			X																	X					
CCB12	1	21:59			X																	X					
K0911120-009	5	22:00			X																	X					
K0911120-010	5	22:03			X																	X					
K0911120-011	5	22:07			X																	X					
K0911120-012	5	22:10			X																	X					
K0911120-013	5	22:13			X																	X					
K0911120-014	5	22:16			X																	X					
K0911120-015	5	22:19			X																	X					
K0911120-016	5	22:22			X																	X					
K0911120-017	5	22:25			X																	X					
K0911120-018	5	22:27			X																	X					
CCV13	1	22:30			X																	X					
CCB13	1	22:33			X																	X					
K0911120-MB2	5	22:36			X																	X					
LCSS2	50	22:37			X																	X					
K0911120-019	5	22:41			X																	X					
K0911120-019D	5	22:43			X																	X					
K0911120-019L	25	22:46			X																	X					
K0911120-019A	5	22:49			X																	X					
K0911120-019S	25	22:52			X																	X					
K0911120-020	5	22:55			X																	X					
K0911120-021	5	22:58			X																	X					

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

Start Date: 12/7/2009 **End Date:** 12/7/2009

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
K0911120-022	5	23:01			X																	X					
CCV14	1	23:04			X																	X					
CCB14	1	23:07			X																	X					

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

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120
Star Lims Run No.: 101643
Method : EPA 3050B
Analysis for : ICP ICP-MS GFAA Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
K0911120-MB			x		100	10% HNO3, 5% HCl
- LCSS	1.02					
-01	2.26					
-02	1.23					
-02D	1.23					
-02S	1.20					
-03	1.87					
-04	1.83					
-05	2.21					
-06	2.22					
-07	1.04					
-08	1.28					
-09	2.25					
-10	1.88					
-11	2.24					
-12	2.24					
-13	2.21					
-14	2.79					
-15	2.22					
-16	1.83					
-17	1.84					
-18	1.85					

MM 11/24/09

Balance I.D.: 28 **Date Balance Checked** 11/24/09
Lot # Acids Used: HNO3 H14024 **HCl** 200728601 **H_2O_2** 4919937 **HF** _____
Hot Block Temp: 95°c
LCSS (circle appropriate) ERA CLP Soil Lot # D065-540 **Other:** _____

GFAA LCSW = GFLCSW, MET1-75-R, _____ mL
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL
QCP CICV-2, MET1-77-M, _____ mL
QCP CICV-3, MET1-77-L, _____ mL
SS6, MET1-79-O, _____ mL

Time Digestion Started: 8:37am
Initial Reflux Time: 15 min.
Secondary Reflux Time: 30 min.
HCL Reflux Time (if needed): 20c min.

SPIKE INFO
SS1-MET1-79-M, _____ mls added SS4-MET1-76-B 0.50 mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, _____ mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-79-O, _____ mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: _____
Comments: _____

Analyst [signature] **Date** 11/24/09
Reviewer [signature] **Date** 11/30/09

metdig_3050B.xls

METALS SPIKE FORM

Service Request # K0911120
Q.C. Sample # 2

Circle type of digest: GFAA ICP (FAA) ICP-MS Other:_____ Initials / Date: MM / 11/24/09
Circle type of sample: (Soil) Water Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-		
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		Expires:05/01/2010
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		Expires:4/2010
	Se	2.0	500ml	4	0.50	
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-		
	As	50.0	500ml	100		Expires:05/2010
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-79-O	HNO3	25	500ml	-		
	B	50	500ml	100		Expires:7/2010
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		
	K**	20	200ml	1000		
	Na**	20	200ml	1000		Expires:3/29/10
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-75-R)	HNO3	10.0	1000ml	-		
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		Expires: 12/01/09
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		Expires:10/01/10
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires:1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120	
Star Lims Run No.: 101641 (Sb, Ag) 101642	
Method : EPA 3050B	Analysis for : ICP ICP-MS GFAA Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
K0911120-MB			X		100	10% HNO_3, HCl
- LCSS	1.01					
- 01	2.23					
- 02	1.20					
- 02D	1.21					
- 02S	1.24					
- 03	1.88					
- 04	1.87					
- 05	2.26					
- 06	2.20					
- 07	1.07					
- 08	1.29					
- 09	2.21					
- 10	1.80					
- 11	2.26					
- 12	2.21					
- 13	2.22					
- 14	2.79					
- 15	2.29					
- 16	1.83					
- 17	1.88					
- 18	1.87					
				MH 11/24/09		

Balance I.D.: 28 **Date Balance Checked** 11/24/09
Lot # Acids Used: HNO3 H14024 **HCl** 200928001 **H_2O_2** 49/91937 **HF** _____
Hot Block Temp: 94°C
LCSS (circle appropriate) ~~ERA CLP Soil Lot # D065-540~~ **Other:** _____

GFAA LCSW = GFLCSW, MET1-75-R, _____ mL
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL
QCP CICV-2, MET1-77-M, _____ mL
QCP CICV-3, MET1-77-L, _____ mL
SS6, MET1-79-O, _____ mL

Time Digestion Started: 1:03pm
Initial Reflux Time: 15 min.
Secondary Reflux Time: 30 min.
HCL Reflux Time (if needed): 20 min.

SPIKE INFO
SS1-MET1-79-M, 2.00 mls added SS4-MET1-76-B _____ mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, 1.06 mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-79-O, 1.00 mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: 0.50 mL 1000ppm Ti
Comments: _____

Analyst [signature] **Date** 11/24/09
Reviewer [signature] **Date** 11/30/09

metdig_3050B.xls

METALS SPIKE FORM

Service Request # K0911120
Q.C. Sample # 2

Circle type of digest: GFAA (ICP) FAA (ICP-MS) Other:_____ Initials / Date: MH / 11/24/09
Circle type of sample: (Soil) Water Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-	2.00	Expires:05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		Expires:4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4		
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-	1.00	Expires:05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-79-O	HNO3	25	500ml	-	1.00	Expires:7/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		Expires:3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-75-R)	HNO3	10.0	1000ml	-		Expires: 12/01/09
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		Expires:10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires:1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date
Ti	0.50	1000	METI-68-F	1/15/10

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120
Star Lims Run No.: 101646 (Sb, Hg), 101647
Method : EPA 3050B
Analysis for : ICP ICP-MS GFAA
Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
K0911120-MB			X		100	10% HNO3, HCl
- LCSS	1.02					
- 019	1.25					
- 19D	1.22					
- 19S	1.27					
- 20	1.28					
- 21	1.23					
- 22	1.46					

MH 11/24/09

Balance I.D.: 28 **Date Balance Checked** 11/24/09
Lot # Acids Used: HNO3 H14024 **HCl** 200928001 **H_2O_2** 49191937 **HF** _____
Hot Block Temp: 94°C
LCSS (circle appropriate) **ERA CLP Soil Lot # D065-540** **Other:** _____

GFAA LCSW = GFLCSW, MET1-75-R, _____ mL
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL
QCP CICV-2, MET1-77-M, _____ mL
QCP CICV-3, MET1-77-L, _____ mL
SS6, MET1-79-O, _____ mL

Time Digestion Started: 1:03 pm
Initial Reflux Time: 15 min.
Secondary Reflux Time: 30 min.
HCL Reflux Time (if needed): 20 min.

SPIKE INFO
SS1-MET1-79-M, 2.00 mls added SS4-MET1-76-B _____ mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, 1.00 mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-79-O, 1.00 mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: 0.50 mL 1000ppm Ti
Comments: _____

Analyst [signature] **Date** 11/24/09
Reviewer [signature] **Date** 11/30/09

metdig_3050B.xls

METALS SPIKE FORM

Service Request # K0911120
Q.C. Sample # 19

Circle type of digest: GFAA ICP FAA ICP-MS Other:_____ Initials / Date: MH / 11/24/09
Circle type of sample: Soil Water Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-	2.00	Expires:05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		Expires:4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4		
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-	1.00	Expires:05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-79-O	HNO3	25	500ml	-	1.00	Expires:7/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		Expires:3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-75-R)	HNO3	10.0	1000ml	-		Expires: 12/01/09
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		Expires:10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires:1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date
Ti	0.50	1000	MET1-68-F	11/5/10

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120
Star Lims Run No.: 102640
Method : EPA 3050B
Analysis for : ICP ICP-MS GFAA Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
K0911120-MB			X		100	10% HNO3
LCSS	1.02					
-01	2.28					
-02	1.24					
-02D	1.22					
-02S	1.20					
-03	1.83					
-04	1.87					
-05	2.21					
-06	2.22					
-07	1.09					
-08	1.21					
-09	2.27					
-10	1.87					
-11	2.27					
-12	2.25					
-13	2.22					
-14	2.77					
-15	2.20					
-16	1.87					
-17	1.82					
-18	1.80					
				MH 11/24/09		

Balance I.D.: 28 **Date Balance Checked** 11/24/09
Lot # Acids Used: HNO3 H114024 **HCl** _____ **H_2O_2** 49191937 **HF** _____
Hot Block Temp: 95°C
LCSS (circle appropriate) **ERA CLP Soil Lot # D065-540** **Other:** _____

GFAA LCSW = GFLCSW, MET1-75-R, _____ mL
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL
QCP CICV-2, MET1-77-M, _____ mL
QCP CICV-3, MET1-77-L, _____ mL
SS6, MET1-79-O, _____ mL

Time Digestion Started: 1:03pm
Initial Reflux Time: 15 min.
Secondary Reflux Time: 30 min.
HCL Reflux Time (if needed): _____ min.

SPIKE INFO
SS1-MET1-79-M, 2.00 mls added SS4-MET1-76-B _____ mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, 1.00 mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-79-O, 1.00 mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: 2.00 mh 10ppm Ti
Comments: _____

Analyst [signature] **Date** 11/24/09
Reviewer [signature] **Date** 11/30/09

metdig_3050B.xls

METALS SPIKE FORM

Service Request # K0911120

Q.C. Sample # K1120-2

Circle type of digest: GFAA ICP FAA (ICP-MS) Other:_____ Initials / Date: MH / 11/24/09

Circle type of sample: (Soil) Water Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-	2.00	Expires:05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		Expires:4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4		
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-	1.00	Expires:05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-79-O	HNO3	25	500ml	-	1.00	Expires:7/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		Expires:3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-80-J)	HNO3	10.0	1000ml	-		Expires: 07/01/10
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		Expires:10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires:1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date
Ti	2.00	10	MS12-76-A	4/1/10

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120	
Star Lims Run No.: 101645	
Method : EPA 3050B	Analysis for : ICP ICP-MS GFAA Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
K0911120-MB			X		100	10% HNO3
-LCSS	1.03					
-19	1.23					
-19D	1.22					
-19S	1.20					
-20	1.20					
-21	1.28					
-22	1.46					

MH 11/24/09

Balance I.D.: 28 **Date Balance Checked** 11/24/09
Lot # Acids Used: HNO3 H14024 **HCl** _____ **H_2O_2** 4919193F **HF** _____
Hot Block Temp: 95°C
LCSS (circle appropriate) ~~ERA CLP Soil Lot # D065-540~~ **Other:** _____

GFAA LCSW = GFLCSW, MET1-75-R, _____ mL
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL
QCP CICV-2, MET1-77-M, _____ mL
QCP CICV-3, MET1-77-L, _____ mL
SS6, MET1-79-O, _____ mL

Time Digestion Started: 1:03
Initial Reflux Time: 15 min.
Secondary Reflux Time: 30 min.
HCL Reflux Time (if needed): _____ min.

SPIKE INFO
SS1-MET1-79-M, 2.00 mls added SS4-MET1-76-B _____ mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, 1.00 mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-79-O, 1.00 mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: 2.00 mL 10ppm Ti
Comments: _____

Analyst [signature] **Date** 11/24/09
Reviewer [signature] **Date** 11/30/09

metdig_3050B.xls

METALS SPIKE FORM

Service Request # K091120

Q.C. Sample # K120-14

Circle type of digest: GFAA ICP FAA ICP-MS Other:_____ Initials / Date: MH 11/24/09

Circle type of sample: Soil Water Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-	2.00	Expires:05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		Expires:4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4		
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-	1.00	Expires:05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-79-O	HNO3	25	500ml	-	1.00	Expires:7/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		Expires:3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-75-R)	HNO3	10.0	1000ml	-		Expires: 12/01/09
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		Expires:10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires:1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date
Tl	2.00	10	MS12-76-A	4/1/10

Element Analyzed Se Hydride Instrument K-FLAA-2
Service Request # K0911120

Batch QC SR's # K0911120

Calibration Std. AA1-12-F Expiration Date 4/30/10
2nd Source Std. AA1-12-G Expiration Date 5/1/10
Starlims # 183372
Run # 121609-Se

Hydride Data Review Form

	Yes	No	NA
1 ICV within 10% of true Value	X		
2. Calibration data included	X		
3. CCV's in control	X		
4. CCB's and/or ICB's below MRL	X		
5. All reported Results within Cal. Range	X		
6. All Calculations are Correct	X		

Comments

Primary Reviewed by BJS Date 12/16/09

Secondary Reviewed by JDB Date 12/17/09

COLUMBIA ANALYTICAL SERVICES, INC.
FAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
ICV	-	7.601	101%	
ICB	-	0.030		
CRA	-	0.388	78%	
CCV	-	7.493	100%	
CCB	-	0.003		
~~K0911120-MB~~	~~1/2~~	~~0.620~~		Rerun
LCSSK0911120	1/2*1/100*1/5	2.055	107%	
K0911120-001	1/2	2.133		Cx=3.749
K0911120-001A	1/2	4.979	57%	
~~K0911120-002~~	~~1/2~~	~~1.472~~		Rerun
K0911120-002A	1/2	5.493	95%	
K0911120-002D	1/2	1.514		Cx=1.705
K0911120-002DA	1/2	5.954	89%	
K0911120-002S	1/2*1/5	2.314	119%	Cx=2.541
K0911120-002SA	1/2*1/5	7.035	94%	
CCV	-	7.630	102%	
CCB	-	0.054		
K0911120-003	1/2	0.985		Cx=1.506
~~K0911120-003A~~	~~1/2~~	~~4.459~~		Rerun
K0911120-004	1/2	1.124		Cx=1.576
K0911120-004A	1/2	4.691	71%	
~~K0911120-005~~	~~1/2~~	~~2.022~~		Rerun
~~K0911120-005A~~	~~1/2~~	~~5.329~~		Rerun
K0911120-006	1/2	1.764		Cx=3.106
K0911120-006A	1/2	4.605	57%	
K0911120-007	1/2	0.826		Cx=1.281
~~K0911120-007A~~	~~1/2~~	~~5.187~~		Rerun
CCV	-	7.754	103%	
CCB	-	-0.005		
K0911120-008	1/2	0.984		Cx=1.378

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	10ppb (80-120%)	16ppb (75-125%)	146.0mg/kg (80-120%)	20ppb (75-125%)
Selenium	10ppb (72-125%)	16ppb (66-128%)	192.0mg/kg (62-147%)	20ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
Brian Stelle	12/16/09	1

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COLUMBIA ANALYTICAL SERVICES, INC.
GFAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
K0911120-008A	1/2	4.554	71%	
~~K0911120-009~~	~~1/2~~	~~1.543~~		Rerun
~~K0911120-009A~~	~~1/2~~	~~5.284~~		Rerun
K0911120-010	1/2	2.378		Cx=3.687
K0911120-010A	1/2	5.601	65%	
~~K0911120-011~~	~~1/2~~	~~3.754~~		Rerun
K0911120-011A	1/2	6.960	86%	
K0911120-012	1/2	3.985		Cx=7.016
K0911120-012A	1/2	6.825	57%	
CCV	-	7.639	102%	
CCB	-	0.026		
~~K0911120-013~~	~~1/2~~	~~1.815~~		Rerun
K0911120-013A	1/2	6.169	98%	
~~K0911120-014~~	~~1/2~~	~~2.523~~		Rerun
~~K0911120-014A~~	~~1/2~~	~~6.048~~		Rerun
K0911120-015	1/2	2.951		Cx=4.737
K0911120-015A	1/2	6.066	62%	
K0911120-016	1/2	1.516		Cx=2.040
K0911120-016A	1/2	5.233	74%	
K0911120-017	1/2	1.652		Cx=2.499
K0911120-017A	1/2	4.956	66%	
CCV	-	7.766	104%	
CCB	-	0.108		
K0911120-018	1/2	1.260		Cx=2.090
K0911120-018A	1/2	4.273	60%	
K0911120-MB	1/2	-0.016		
LCSSK0911120	1/2*1/100*1/5	1.725	90%	
K0911120-019	1/2	0.452		Cx=0.650
~~K0911120-019A~~	~~1/2~~	~~4.492~~		Rerun
K0911120-019D	1/2	0.728		Cx=0.955

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	8ppb (80-120%)	8ppb (75-125%)	146.0mg/kg (80-120%)	10ppb (75-125%)
Selenium	8ppb (72-125%)	8ppb (66-128%)	73.0mg/kg (62-147%)	10ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
Brian Stell	12/16/09	2

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COLUMBIA ANALYTICAL SERVICES, INC.
GFAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
K0911120-019DA	1/2	4.536	76%	
K0911120-019S	1/2*1/5	1.962	98%	Cx=2.089
K0911120-019SA	1/2*1/5	6.658	94%	
CCV	-	7.729	103%	
CCB	-	0.013		
K0911120-020	1/2	0.346		Cx=0.497
~~K0911120-020A~~	~~1/2~~	~~4.492~~		Rerun
K0911120-021	1/2	2.757		Cx=4.127
K0911120-021A	1/2	6.099	67%	
K0911120-022	1/2	0.822		Cx=1.317
K0911120-022A	1/2	3.944	62%	
CCV	-	7.460	99%	
CCB	-	0.004		
K0911120-MB	1/2	-0.048		
K0911120-002	1/2	0.742		Cx=0.782
K0911120-003A	1/2	4.091	62%	
K0911120-005	1/2	1.186		Cx=2.180
K0911120-005A	1/2	3.905	54%	
K0911120-007A	1/2	4.052	65%	
K0911120-009	1/2	1.640		Cx=1.879
K0911120-009A	1/2	1.443	77%	
K0911120-011	1/2	2.647		Cx=3.067
K0911120-013	1/2	1.255		Cx=1.277
CCV	-	7.464	100%	
CCB	-	-0.009		
~~K0911120-014A~~	~~1/2~~	~~5.648~~		Rerun
K0911120-014A	1/2	4.387	55%	
K0911120-014	1/2	1.646		Cx=3.004
K0911120-019A	1/2	3.928	70%	
K0911120-020A	1/2	3.824	70%	

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	8ppb (80-120%)	8ppb (75-125%)	146.0mg/kg (80-120%)	10ppb (75-125%)
Selenium	8ppb (72-125%)	8ppb (66-128%)	73.0mg/kg (62-147%)	10ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
[signature]	12/16/09	3

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COLUMBIA ANALYTICAL SERVICES, INC.
GFAA Run Log

Method: (Circle Method Used) (7742) 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
CCV	-	7.657	102%	
CCB	-	0.013		

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	8ppb (80-120%)	8ppb (75-125%)	146.0mg/kg (80-120%)	10ppb (75-125%)
Selenium	8ppb (72-125%)	8ppb (66-128%)	73.0mg/kg (62-147%)	10ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
[illegible]	12/14/09	

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Analysis Begun

Logged In Analyst: ACQMET10 **Technique: AA FIAS-Flame**
Spectrometer Model: AAnalyst 200, S/N 200S5061701 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\ACQMET10\Sample Information\121609-Se.sif
Batch ID: 092508-Se
Results Data Set: 121609-Se
Results Library: R:\ICP\WIP\DATA\K-FLAA-02\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Cal Blk **Date Collected: 12/16/2009 9:40:51 AM**
Analyst: **Data Type: Original**

Replicate Data: Cal Blk

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.00]	0.003	0.006	0.003			09:41:07	Yes
2		[0.00]	0.002	0.009	0.002			09:41:45	Yes
3		[0.00]	0.003	0.014	0.003			09:42:21	Yes
Mean:		[0.00]	0.003						
SD:		0.00	0.0003						
%RSD:		0.00	12.79						

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: Std 0.5 **Date Collected: 12/16/2009 9:43:14 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.5]	0.010	0.054	0.013			09:43:31	Yes
2		[0.5]	0.011	0.047	0.013			09:44:06	Yes
3		[0.5]	0.011	0.055	0.013			09:44:42	Yes
Mean:		[0.5]	0.011						
SD:		0.0	0.0003						
%RSD:		0.0	3.04						

Standard number 1 applied. [0.5]
Correlation Coef.: 1.000000 Slope: 0.02101 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: Std 1.0 **Date Collected: 12/16/2009 9:45:35 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[1.0]	0.020	0.092	0.023			09:45:53	Yes
2		[1.0]	0.020	0.091	0.023			09:46:29	Yes
3		[1.0]	0.020	0.094	0.023			09:47:04	Yes
Mean:		[1.0]	0.020						
SD:		0.0	0.0001						
%RSD:		0.0	0.58						

Standard number 2 applied. [1.0]
Correlation Coef.: 0.999135 Slope: 0.02048 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**

Sample ID: Std 5.0 **Date Collected: 12/16/2009 9:47:58 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[5.0]	0.102	0.444	0.105			09:48:16	Yes
2		[5.0]	0.104	0.443	0.106			09:48:52	Yes
3		[5.0]	0.104	0.446	0.106			09:49:27	Yes
Mean:		[5.0]	0.103						
SD:		0.0	0.0008						
%RSD:		0.0	0.82						

Standard number 3 applied. [5.0]
Correlation Coef.: 0.999987 Slope: 0.02066 Intercept: 0.00000

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Std 7.5 **Date Collected: 12/16/2009 9:50:21 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 7.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[7.5]	0.156	0.662	0.159			09:50:40	Yes
2		[7.5]	0.158	0.661	0.161			09:51:15	Yes
3		[7.5]	0.155	0.652	0.158			09:51:51	Yes
Mean:		[7.5]	0.157						
SD:		0.0	0.0014						
%RSD:		0.0	0.90						

Standard number 4 applied. [7.5]
Correlation Coef.: 0.999964 Slope: 0.02081 Intercept: 0.00000

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: Std 10.0 **Date Collected: 12/16/2009 9:52:46 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[10.0]	0.201	0.872	0.204			09:53:04	Yes
2		[10.0]	0.205	0.869	0.207			09:53:40	Yes
3		[10.0]	0.203	0.875	0.205			09:54:16	Yes
Mean:		[10.0]	0.203						
SD:		0.0	0.0016						
%RSD:		0.0	0.81						

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999765 Slope: 0.02053 Intercept: 0.00000

Calibration data for Se 196.03 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Cal Blk	0.0000	0	0.000	0.00	12.8
Std 0.5	0.0105	0.5	0.512	0.00	3.0
Std 1.0	0.0203	1.0	0.991	0.00	0.6
Std 5.0	0.1033	5.0	5.033	0.00	0.8
Std 7.5	0.1566	7.5	7.629	0.00	0.9
Std 10.0	0.2029	10.0	9.884	0.00	0.8

Correlation Coef.: 0.999765 Slope: 0.02053 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 12/16/2009 9:55:11 AM**
Analyst: **Data Type: Original**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.615	7.615	0.156	0.664	0.159			09:55:30	Yes
2	7.618	7.618	0.156	0.669	0.159			09:56:06	Yes
3	7.569	7.569	0.155	0.655	0.158			09:56:42	Yes
Mean:	7.601	7.601	0.156						
SD:	0.028	0.028	0.0006						
%RSD:	0.367	0.367	0.37						

QC value within limits for Se 196.03 Recovery = 101.34%
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 12/16/2009 9:57:37 AM**
Analyst: **Data Type: Original**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.063	0.063	0.001	0.013	0.004			09:57:54	Yes
2	0.021	0.021	0.000	0.012	0.003			09:58:29	Yes
3	0.007	0.007	0.000	0.010	0.003			09:59:05	Yes
Mean:	0.030	0.030	0.001						
SD:	0.029	0.029	0.0006						
%RSD:	97.11	97.11	97.11						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 2**
Sample ID: CRA **Date Collected: 12/16/2009 9:59:58 AM**
Analyst: **Data Type: Original**

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.401	0.401	0.008	0.042	0.011			10:00:14	Yes
2	0.374	0.374	0.008	0.043	0.010			10:00:50	Yes
3	0.388	0.388	0.008	0.040	0.011			10:01:26	Yes
Mean:	0.388	0.388	0.008						
SD:	0.013	0.013	0.0003						
%RSD:	3.439	3.439	3.44						

QC value within limits for Se 196.03 Recovery = 77.51%
All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/16/2009 10:02:19 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.456	7.456	0.153	0.642	0.156			10:02:37	Yes
2	7.505	7.505	0.154	0.644	0.157			10:03:12	Yes
3	7.517	7.517	0.154	0.658	0.157			10:03:48	Yes
Mean:	7.493	7.493	0.154						
SD:	0.032	0.032	0.0007						

%RSD: 0.433 0.433 0.43
QC value within limits for Se 196.03 Recovery = 99.90%
All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/16/2009 10:04:42 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.028	0.028	0.001	0.013	0.003			10:04:59	Yes
2	-0.012	-0.012	-0.000	0.009	0.002			10:05:35	Yes
3	-0.008	-0.008	-0.000	0.005	0.002			10:06:10	Yes
Mean:	0.003	0.003	0.000						
SD:	0.022	0.022	0.0005						
%RSD:	881.1	881.1	881.11						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 9**
Sample ID: K0911120-MB **Date Collected: 12/16/2009 10:07:03 AM** BJS 12/16/09
Analyst: **Data Type: Original**

Replicate Data: K0911120-MB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.041	-0.041	-0.001	0.004	0.002			10:07:19	Yes
2	1.974	1.974	0.041	0.391	0.043			10:07:55	Yes
3	-0.072	-0.072	-0.001	-0.049	0.001			10:08:31	Yes
Mean:	0.620	0.620	0.013						
SD:	1.172	1.172	0.0241						
%RSD:	189.0	189.0	188.96						

Sequence No.: 13 **Autosampler Location: 10**
Sample ID: LCSSK0911120 **Date Collected: 12/16/2009 10:09:23 AM**
Analyst: **Data Type: Original**

Replicate Data: LCSSK0911120

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.935	1.935	0.040	0.141	0.042			10:09:40	Yes
2	2.073	2.073	0.043	0.166	0.045			10:10:16	Yes
3	2.157	2.157	0.044	0.186	0.047			10:10:52	Yes
Mean:	2.055	2.055	0.042						
SD:	0.112	0.112	0.0023						
%RSD:	5.453	5.453	5.45						

Sequence No.: 14 **Autosampler Location: 11**
Sample ID: K0911120-001 **Date Collected: 12/16/2009 10:11:45 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.790	1.790	0.037	0.179	0.039			10:12:02	Yes
2	2.372	2.372	0.049	0.229	0.051			10:12:37	Yes
3	2.238	2.238	0.046	0.268	0.048			10:13:13	Yes
Mean:	2.133	2.133	0.044						

SD:	0.305	0.305	0.0063
%RSD:	14.28	14.28	14.28

Sequence No.: 15 **Autosampler Location: 12**
Sample ID: K0911120-001A **Date Collected: 12/16/2009 10:14:07 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-001A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.004	5.004	0.103	0.491	0.105			10:14:24	Yes
2	5.029	5.029	0.103	0.456	0.106			10:15:00	Yes
3	4.906	4.906	0.101	0.465	0.103			10:15:36	Yes
Mean:	4.979	4.979	0.102						
SD:	0.065	0.065	0.0013						
%RSD:	1.308	1.308	1.31						

Sequence No.: 16 **Autosampler Location: 13**
Sample ID: K0911120-002 **Date Collected: 12/16/2009 10:16:30 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.298	1.298	0.027	0.131	0.029			10:16:48	Yes
2	1.231	1.231	0.025	0.118	0.028			10:17:23	Yes
3	1.886	1.886	0.039	0.202	0.041			10:17:59	Yes
Changing BOC									
Mean:	1.472	1.472	0.030						
SD:	0.361	0.361	0.0074						
%RSD:	24.50	24.50	24.50						
Changing BOC									

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Sequence No.: 17 **Autosampler Location: 14**
Sample ID: K0911120-002A **Date Collected: 12/16/2009 10:18:53 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-002A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.533	5.533	0.114	0.505	0.116			10:19:12	Yes
2	5.524	5.524	0.113	0.497	0.116			10:19:48	Yes
3	5.421	5.421	0.111	0.499	0.114			10:20:24	Yes
Mean:	5.493	5.493	0.113						
SD:	0.062	0.062	0.0013						
%RSD:	1.134	1.134	1.13						

Sequence No.: 18 **Autosampler Location: 15**
Sample ID: K0911120-002D **Date Collected: 12/16/2009 10:21:18 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-002D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.322	1.322	0.027	0.122	0.030			10:21:38	Yes
2	1.656	1.656	0.034	0.160	0.037			10:22:14	Yes
3	1.563	1.563	0.032	0.148	0.035			10:22:49	Yes
Mean:	1.514	1.514	0.031						
SD:	0.172	0.172	0.0035						

%RSD: 11.36 11.36 11.36

==========

Sequence No.: 19 **Autosampler Location: 16**
Sample ID: K0911120-002DA **Date Collected: 12/16/2009 10:23:44 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-002DA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.631	5.631	0.116	0.509	0.118			10:24:04	Yes
2	6.194	6.194	0.127	0.555	0.130			10:24:40	Yes
3	6.038	6.038	0.124	0.540	0.127			10:25:16	Yes
Mean:	5.954	5.954	0.122						
SD:	0.291	0.291	0.0060						
%RSD:	4.880	4.880	4.88						

==========

Sequence No.: 20 **Autosampler Location: 17**
Sample ID: K0911120-002S **Date Collected: 12/16/2009 10:26:11 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-002S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.419	2.419	0.050	0.208	0.052			10:26:27	Yes
2	2.332	2.332	0.048	0.208	0.050			10:27:03	Yes
3	2.191	2.191	0.045	0.202	0.048			10:27:38	Yes
Mean:	2.314	2.314	0.048						
SD:	0.115	0.115	0.0024						
%RSD:	4.967	4.967	4.97						

==========

Sequence No.: 21 **Autosampler Location: 18**
Sample ID: K0911120-002SA **Date Collected: 12/16/2009 10:28:31 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-002SA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.969	6.969	0.143	0.628	0.146			10:28:47	Yes
2	7.104	7.104	0.146	0.626	0.148			10:29:23	Yes
3	7.031	7.031	0.144	0.627	0.147			10:29:59	Yes
Mean:	7.035	7.035	0.144						
SD:	0.068	0.068	0.0014						
%RSD:	0.961	0.961	0.96						

==========

Sequence No.: 22 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/16/2009 10:30:51 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.691	7.691	0.158	0.673	0.160			10:31:09	Yes
2	7.580	7.580	0.156	0.645	0.158			10:31:45	Yes
3	7.620	7.620	0.156	0.668	0.159			10:32:21	Yes
Mean:	7.630	7.630	0.157						
SD:	0.056	0.056	0.0012						
%RSD:	0.738	0.738	0.74						

QC value within limits for Se 196.03 Recovery = 101.73%
All analyte(s) passed QC.

Sequence No.: 23 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/16/2009 10:33:15 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.138	0.138	0.003	0.022	0.005			10:33:32	Yes
2	0.023	0.023	0.000	0.006	0.003			10:34:08	Yes
3	0.002	0.002	0.000	0.008	0.003			10:34:43	Yes
Mean:	0.054	0.054	0.001						
SD:	0.073	0.073	0.0015						
%RSD:	135.4	135.4	135.36						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24 **Autosampler Location: 19**
Sample ID: K0911120-003 **Date Collected: 12/16/2009 10:35:36 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.971	0.971	0.020	0.094	0.022			10:35:53	Yes
2	1.021	1.021	0.021	0.094	0.024			10:36:28	Yes
3	0.962	0.962	0.020	0.094	0.022			10:37:04	Yes
Mean:	0.985	0.985	0.020						
SD:	0.032	0.032	0.0007						
%RSD:	3.252	3.252	3.25						

Sequence No.: 25 **Autosampler Location: 20**
Sample ID: K0911120-003A **Date Collected: 12/16/2009 10:37:57 AM**
Analyst: **Data Type: Original**

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Replicate Data: K0911120-003A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.961	3.961	0.081	0.359	0.084			10:38:13	Yes
2	3.968	3.968	0.081	0.361	0.084			10:38:49	Yes
3	5.450	5.450	0.112	0.504	0.114			10:39:25	Yes
Mean:	4.459	4.459	0.092						
SD:	0.857	0.857	0.0176						
%RSD:	19.23	19.23	19.23						

Sequence No.: 26 **Autosampler Location: 21**
Sample ID: K0911120-004 **Date Collected: 12/16/2009 10:40:17 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.194	1.194	0.025	0.119	0.027			10:40:34	Yes
2	1.100	1.100	0.023	0.109	0.025			10:41:10	Yes
3	1.078	1.078	0.022	0.118	0.025			10:41:46	Yes
Mean:	1.124	1.124	0.023						
SD:	0.061	0.061	0.0013						
%RSD:	5.462	5.462	5.46						

Sequence No.: 27
Sample ID: K0911120-004A
Analyst:
Autosampler Location: 22
Date Collected: 12/16/2009 10:42:39 AM
Data Type: Original

Replicate Data: K0911120-004A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.822	4.822	0.099	0.466	0.102			10:42:56	Yes
2	4.655	4.655	0.096	0.454	0.098			10:43:32	Yes
3	4.594	4.594	0.094	0.434	0.097			10:44:13	Yes
Mean:	4.691	4.691	0.096						
SD:	0.118	0.118	0.0024						
%RSD:	2.521	2.521	2.52						

Sequence No.: 28
Sample ID: K0911120-005
Analyst:
Autosampler Location: 23
Date Collected: 12/16/2009 10:45:06 AM
Data Type: Original

Replicate Data: K0911120-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.518	1.518	0.031	0.154	0.034			10:45:24	Yes
2	2.408	2.408	0.049	0.231	0.052			10:45:59	Yes
3	2.142	2.142	0.044	0.213	0.047			10:46:35	Yes
Mean:	2.022	2.022	0.042						
SD:	0.457	0.457	0.0094						
%RSD:	22.60	22.60	22.60						

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Sequence No.: 29
Sample ID: K0911120-005A
Analyst:
Autosampler Location: 24
Date Collected: 12/16/2009 10:47:29 AM
Data Type: Original

Replicate Data: K0911120-005A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.072	5.072	0.104	0.494	0.107			10:47:47	Yes
2	4.876	4.876	0.100	0.468	0.103			10:48:23	Yes
3	6.039	6.039	0.124	0.583	0.127			10:48:58	Yes
Mean:	5.329	5.329	0.109						
SD:	0.623	0.623	0.0128						
%RSD:	11.68	11.68	11.68						

Sequence No.: 30
Sample ID: K0911120-006
Analyst:
Autosampler Location: 25
Date Collected: 12/16/2009 10:49:52 AM
Data Type: Original

Replicate Data: K0911120-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.944	1.944	0.040	0.190	0.042			10:50:10	Yes
2	1.736	1.736	0.036	0.177	0.038			10:50:46	Yes
3	1.611	1.611	0.033	0.170	0.036			10:51:22	Yes
Mean:	1.764	1.764	0.036						
SD:	0.168	0.168	0.0035						
%RSD:	9.547	9.547	9.55						

Sequence No.: 31
Sample ID: K0911120-006A
Autosampler Location: 26
Date Collected: 12/16/2009 10:52:16 AM

Analyst: Data Type: Original

Replicate Data: K0911120-006A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.636	4.636	0.095	0.439	0.098			10:52:34	Yes
2	4.615	4.615	0.095	0.429	0.097			10:53:10	Yes
3	4.564	4.564	0.094	0.434	0.096			10:53:45	Yes
Mean:	4.605	4.605	0.095						
SD:	0.037	0.037	0.0008						
%RSD:	0.799	0.799	0.80						

Sequence No.: 32 Autosampler Location: 27
Sample ID: K0911120-007 Date Collected: 12/16/2009 10:54:40 AM
Analyst: Data Type: Original

Replicate Data: K0911120-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.876	0.876	0.018	0.091	0.021			10:54:58	Yes
2	0.811	0.811	0.017	0.084	0.019			10:55:34	Yes
3	0.791	0.791	0.016	0.078	0.019			10:56:09	Yes
Mean:	0.826	0.826	0.017						
SD:	0.045	0.045	0.0009						
%RSD:	5.423	5.423	5.42						

Sequence No.: 33 Autosampler Location: 28
Sample ID: K0911120-007A Date Collected: 12/16/2009 10:57:04 AM
Analyst: Data Type: Original

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Replicate Data: K0911120-007A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.367	4.367	0.090	0.395	0.092			10:57:22	Yes
2	4.381	4.381	0.090	0.392	0.092			10:57:58	Yes
3	6.811	6.811	0.140	0.766	0.142			10:58:34	Yes
Mean:	5.187	5.187	0.106						
SD:	1.407	1.407	0.0289						
%RSD:	27.13	27.13	27.13						

Sequence No.: 34 Autosampler Location: 5
Sample ID: CCV Date Collected: 12/16/2009 10:59:29 AM
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.799	7.799	0.160	0.678	0.163			10:59:47	Yes
2	7.580	7.580	0.156	0.648	0.158			11:00:23	Yes
3	7.882	7.882	0.162	0.683	0.164			11:00:59	Yes
Mean:	7.754	7.754	0.159						
SD:	0.156	0.156	0.0032						
%RSD:	2.010	2.010	2.01						

QC value within limits for Se 196.03 Recovery = 103.38%
All analyte(s) passed QC.

Sequence No.: 35 Autosampler Location: 1
Sample ID: CCB Date Collected: 12/16/2009 11:01:53 AM
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.021	0.021	0.000	0.002	0.003			11:02:08	Yes
2	-0.003	-0.003	-0.000	0.006	0.002			11:02:44	Yes
3	-0.034	-0.034	-0.001	0.005	0.002			11:03:20	Yes
Mean:	-0.005	-0.005	-0.000						
SD:	0.028	0.028	0.0006						
%RSD:	508.7	508.7	508.65						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36 **Autosampler Location: 29**
Sample ID: K0911120-008 **Date Collected: 12/16/2009 11:04:12 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-008

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.847	0.847	0.017	0.086	0.020			11:04:31	Yes
2	1.073	1.073	0.022	0.104	0.025			11:05:07	Yes
3	1.031	1.031	0.021	0.101	0.024			11:05:43	Yes
Mean:	0.984	0.984	0.020						
SD:	0.120	0.120	0.0025						
%RSD:	12.22	12.22	12.22						

Sequence No.: 37 **Autosampler Location: 30**
Sample ID: K0911120-008A **Date Collected: 12/16/2009 11:06:38 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-008A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.524	4.524	0.093	0.404	0.095			11:06:57	Yes
2	4.578	4.578	0.094	0.411	0.097			11:07:33	Yes
3	4.561	4.561	0.094	0.408	0.096			11:08:09	Yes
Mean:	4.554	4.554	0.093						
SD:	0.027	0.027	0.0006						
%RSD:	0.601	0.601	0.60						

Sequence No.: 38 **Autosampler Location: 31**
Sample ID: K0911120-009 **Date Collected: 12/16/2009 11:09:04 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-009

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Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.184	1.184	0.024	0.105	0.027			11:09:23	Yes
2	1.191	1.191	0.024	0.112	0.027			11:09:59	Yes
3	2.255	2.255	0.046	0.205	0.049			11:10:35	Yes
Mean:	1.543	1.543	0.032						
SD:	0.616	0.616	0.0126						
%RSD:	39.91	39.91	39.91						

Sequence No.: 39 **Autosampler Location: 32**
Sample ID: K0911120-009A **Date Collected: 12/16/2009 11:11:31 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-009A

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Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.037	5.037	0.103	0.465	0.106			11:11:46	Yes
2	5.573	5.573	0.114	0.525	0.117			11:12:23	Yes
3	5.241	5.241	0.108	0.502	0.110			11:12:59	Yes
Mean:	5.284	5.284	0.108						
SD:	0.270	0.270	0.0056						
%RSD:	5.118	5.118	5.12						

Sequence No.: 40
Sample ID: K0911120-010
Analyst:

Autosampler Location: 33
Date Collected: 12/16/2009 11:13:51 AM
Data Type: Original

Replicate Data: K0911120-010

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.051	2.051	0.042	0.205	0.045			11:14:07	Yes
2	2.594	2.594	0.053	0.240	0.056			11:14:42	Yes
3	2.490	2.490	0.051	0.239	0.054			11:15:18	Yes
Mean:	2.378	2.378	0.049						
SD:	0.288	0.288	0.0059						
%RSD:	12.11	12.11	12.11						

Sequence No.: 41
Sample ID: K0911120-010A
Analyst:

Autosampler Location: 34
Date Collected: 12/16/2009 11:16:10 AM
Data Type: Original

Replicate Data: K0911120-010A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.711	5.711	0.117	0.543	0.120			11:16:26	Yes
2	5.553	5.553	0.114	0.511	0.117			11:17:02	Yes
3	5.538	5.538	0.114	0.512	0.116			11:17:38	Yes
Mean:	5.601	5.601	0.115						
SD:	0.096	0.096	0.0020						
%RSD:	1.717	1.717	1.72						

Sequence No.: 42
Sample ID: K0911120-011
Analyst:

Autosampler Location: 35
Date Collected: 12/16/2009 11:18:30 AM
Data Type: Original

Replicate Data: K0911120-011

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Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.122	3.122	0.064	0.303	0.067			11:18:46	Yes
2	4.129	4.129	0.085	0.430	0.087			11:19:22	Yes
Changing BOC									
3	4.010	4.010	0.082	0.403	0.085			11:19:58	Yes
Mean:	3.754	3.754	0.077						
SD:	0.550	0.550	0.0113						
%RSD:	14.67	14.67	14.67						
Changing BOC									

Sequence No.: 43
Sample ID: K0911120-011A
Analyst:

Autosampler Location: 36
Date Collected: 12/16/2009 11:20:50 AM
Data Type: Original

Replicate Data: K0911120-011A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.092	7.092	0.146	0.679	0.148			11:21:07	Yes
2	6.909	6.909	0.142	0.658	0.144			11:21:43	Yes
3	6.879	6.879	0.141	0.649	0.144			11:22:18	Yes
Mean:	6.960	6.960	0.143						
SD:	0.115	0.115	0.0024						
%RSD:	1.659	1.659	1.66						

==========

Sequence No.: 44 **Autosampler Location: 37**
Sample ID: K0911120-012 **Date Collected: 12/16/2009 11:23:12 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-012

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.044	4.044	0.083	0.412	0.086			11:23:28	Yes
2	4.046	4.046	0.083	0.404	0.086			11:24:04	Yes
3	3.864	3.864	0.079	0.375	0.082			11:24:40	Yes
Mean:	3.985	3.985	0.082						
SD:	0.104	0.104	0.0021						
%RSD:	2.614	2.614	2.61						

==========

Sequence No.: 45 **Autosampler Location: 38**
Sample ID: K0911120-012A **Date Collected: 12/16/2009 11:25:33 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-012A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.845	6.845	0.141	0.668	0.143			11:25:50	Yes
2	6.946	6.946	0.143	0.651	0.145			11:26:26	Yes
3	6.686	6.686	0.137	0.593	0.140			11:27:02	Yes
Mean:	6.825	6.825	0.140						
SD:	0.131	0.131	0.0027						
%RSD:	1.924	1.924	1.92						

==========

Sequence No.: 46 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/16/2009 11:27:55 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.604	7.604	0.156	0.678	0.159			11:28:13	Yes
2	7.676	7.676	0.158	0.674	0.160			11:28:48	Yes
3	7.638	7.638	0.157	0.673	0.159			11:29:24	Yes
Mean:	7.639	7.639	0.157						
SD:	0.036	0.036	0.0007						
%RSD:	0.466	0.466	0.47						

QC value within limits for Se 196.03 Recovery = 101.86%
All analyte(s) passed QC.

==========

Sequence No.: 47 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/16/2009 11:30:19 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.074	0.074	0.002	0.014	0.004			11:30:35	Yes
2	0.021	0.021	0.000	0.009	0.003			11:31:10	Yes
3	-0.017	-0.017	-0.000	0.009	0.002			11:31:46	Yes
Mean:	0.026	0.026	0.001						
SD:	0.045	0.045	0.0009						
%RSD:	173.8	173.8	173.80						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 48 **Autosampler Location: 39**
Sample ID: K0911120-013 **Date Collected: 12/16/2009 11:32:39 AM**
Analyst: **Data Type: Original**

BJJ 12/16/09

Replicate Data: K0911120-013

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.456	1.456	0.030	0.146	0.032			11:32:56	Yes
2	1.572	1.572	0.032	0.154	0.035			11:33:32	Yes
3	2.417	2.417	0.050	0.234	0.052			11:34:07	Yes
Mean:	1.815	1.815	0.037						
SD:	0.525	0.525	0.0108						
%RSD:	28.91	28.91	28.91						

==========

Sequence No.: 49 **Autosampler Location: 40**
Sample ID: K0911120-013A **Date Collected: 12/16/2009 11:35:00 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-013A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.435	6.435	0.132	0.605	0.135			11:35:18	Yes
2	6.076	6.076	0.125	0.576	0.127			11:35:53	Yes
3	5.996	5.996	0.123	0.567	0.126			11:36:29	Yes
Mean:	6.169	6.169	0.127						
SD:	0.234	0.234	0.0048						
%RSD:	3.789	3.789	3.79						

==========

Sequence No.: 50 **Autosampler Location: 41**
Sample ID: K0911120-014 **Date Collected: 12/16/2009 11:37:23 AM**
Analyst: **Data Type: Original**

BJJ 12/16/09

Replicate Data: K0911120-014

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.276	2.276	0.047	0.235	0.049			11:37:41	Yes
2	2.351	2.351	0.048	0.237	0.051			11:38:16	Yes
3	2.942	2.942	0.060	0.284	0.063			11:38:52	Yes
Mean:	2.523	2.523	0.052						
SD:	0.365	0.365	0.0075						
%RSD:	14.45	14.45	14.45						

==========

Sequence No.: 51 **Autosampler Location: 42**
Sample ID: K0911120-014A **Date Collected: 12/16/2009 11:39:46 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-014A

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	ug/L	ug/L	Signal	Area	Height	Area	Height		Stored
1	5.653	5.653	0.116	0.548	0.119			11:40:04	Yes
2	5.590	5.590	0.115	0.538	0.117			11:40:40	Yes
3	6.903	6.903	0.142	0.647	0.144			11:41:16	Yes
Mean:	6.048	6.048	0.124						
SD:	0.741	0.741	0.0152						
%RSD:	12.24	12.24	12.24						

TSS 12/16/09

==========

Sequence No.: 52 **Autosampler Location: 43**
Sample ID: K0911120-015 **Date Collected: 12/16/2009 11:42:10 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-015

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.157	3.157	0.065	0.305	0.067			11:42:28	Yes
2	2.872	2.872	0.059	0.272	0.062			11:43:04	Yes
3	2.825	2.825	0.058	0.269	0.061			11:43:40	Yes
Mean:	2.951	2.951	0.061						
SD:	0.180	0.180	0.0037						
%RSD:	6.090	6.090	6.09						

==========

Sequence No.: 53 **Autosampler Location: 44**
Sample ID: K0911120-015A **Date Collected: 12/16/2009 11:44:34 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-015A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.054	6.054	0.124	0.571	0.127			11:44:53	Yes
2	6.078	6.078	0.125	0.566	0.127			11:45:29	Yes
3	6.066	6.066	0.125	0.561	0.127			11:46:05	Yes
Mean:	6.066	6.066	0.125						
SD:	0.012	0.012	0.0003						
%RSD:	0.201	0.201	0.20						

==========

Sequence No.: 54 **Autosampler Location: 45**
Sample ID: K0911120-016 **Date Collected: 12/16/2009 11:47:00 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-016

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.628	1.628	0.033	0.149	0.036			11:47:18	Yes
2	1.493	1.493	0.031	0.143	0.033			11:47:54	Yes
3	1.427	1.427	0.029	0.138	0.032			11:48:30	Yes
Mean:	1.516	1.516	0.031						
SD:	0.102	0.102	0.0021						
%RSD:	6.738	6.738	6.74						

==========

Sequence No.: 55 **Autosampler Location: 46**
Sample ID: K0911120-016A **Date Collected: 12/16/2009 11:49:25 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-016A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.318	5.318	0.109	0.509	0.112			11:49:44	Yes
2	5.272	5.272	0.108	0.496	0.111			11:50:20	Yes

3	5.109	5.109	0.105	0.487	0.107		11:50:55	Yes
Mean:	5.233	5.233	0.107					
SD:	0.110	0.110	0.0023					
%RSD:	2.101	2.101	2.10					

==========

Sequence No.: 56 **Autosampler Location: 47**
Sample ID: K0911120-017 **Date Collected: 12/16/2009 11:51:51 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-017

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.768	1.768	0.036	0.172	0.039			11:52:10	Yes
2	1.701	1.701	0.035	0.167	0.037			11:52:45	Yes
3	1.487	1.487	0.031	0.124	0.033			11:53:21	Yes
Mean:	1.652	1.652	0.034						
SD:	0.147	0.147	0.0030						
%RSD:	8.882	8.882	8.88						

==========

Sequence No.: 57 **Autosampler Location: 48**
Sample ID: K0911120-017A **Date Collected: 12/16/2009 11:54:17 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-017A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.041	5.041	0.104	0.464	0.106			11:54:32	Yes
2	4.953	4.953	0.102	0.453	0.104			11:55:08	Yes
3	4.874	4.874	0.100	0.453	0.103			11:55:44	Yes
Mean:	4.956	4.956	0.102						
SD:	0.084	0.084	0.0017						
%RSD:	1.694	1.694	1.69						

==========

Sequence No.: 58 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/16/2009 11:56:35 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.683	7.683	0.158	0.673	0.160			11:56:53	Yes
2	7.855	7.855	0.161	0.696	0.164			11:57:29	Yes
3	7.760	7.760	0.159	0.678	0.162			11:58:05	Yes
Mean:	7.766	7.766	0.159						
SD:	0.086	0.086	0.0018						
%RSD:	1.108	1.108	1.11						

QC value within limits for Se 196.03 Recovery = 103.55%
All analyte(s) passed QC.

==========

Sequence No.: 59 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/16/2009 11:59:00 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.100	0.100	0.002	0.015	0.005			11:59:15	Yes
2	0.034	0.034	0.001	0.011	0.003			11:59:51	Yes
3	0.192	0.192	0.004	0.041	0.006			12:00:27	Yes

Mean:	0.108	0.108	0.002
SD:	0.079	0.079	0.0016
%RSD:	73.11	73.11	73.11

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60 **Autosampler Location: 49**
Sample ID: K0911120-018 **Date Collected: 12/16/2009 12:01:19 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-018

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.320	1.320	0.027	0.134	0.030			12:01:35	Yes
2	1.278	1.278	0.026	0.130	0.029			12:02:11	Yes
3	1.181	1.181	0.024	0.120	0.027			12:02:47	Yes
Mean:	1.260	1.260	0.026						
SD:	0.071	0.071	0.0015						
%RSD:	5.642	5.642	5.64						

Sequence No.: 61 **Autosampler Location: 50**
Sample ID: K0911120-018A **Date Collected: 12/16/2009 12:03:39 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-018A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.282	4.282	0.088	0.404	0.090			12:03:55	Yes
2	4.254	4.254	0.087	0.407	0.090			12:04:31	Yes
3	4.282	4.282	0.088	0.404	0.090			12:05:07	Yes
Mean:	4.273	4.273	0.088						
SD:	0.016	0.016	0.0003						
%RSD:	0.379	0.379	0.38						

Sequence No.: 62 **Autosampler Location: 51**
Sample ID: K0911120-MB **Date Collected: 12/16/2009 12:05:59 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-MB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.001	0.001	0.000	0.012	0.003			12:06:14	Yes
2	-0.023	-0.023	-0.000	0.006	0.002			12:06:50	Yes
3	-0.025	-0.025	-0.001	0.002	0.002			12:07:26	Yes
Mean:	-0.016	-0.016	-0.000						
SD:	0.015	0.015	0.0003						
%RSD:	93.09	93.09	93.09						

Sequence No.: 63 **Autosampler Location: 52**
Sample ID: LCSSK0911120 **Date Collected: 12/16/2009 12:08:18 PM**
Analyst: **Data Type: Original**

Replicate Data: LCSSK0911120

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.620	1.620	0.033	0.151	0.036			12:08:35	Yes
2	1.780	1.780	0.037	0.155	0.039			12:09:11	Yes
3	1.774	1.774	0.036	0.161	0.039			12:09:46	Yes
Mean:	1.725	1.725	0.035						

SD:	0.091	0.091	0.0019
%RSD:	5.249	5.249	5.25

==========

Sequence No.: 64 **Autosampler Location: 53**
Sample ID: K0911120-019 **Date Collected: 12/16/2009 12:10:39 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-019

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.508	0.508	0.010	0.056	0.013			12:10:55	Yes
2	0.436	0.436	0.009	0.050	0.011			12:11:31	Yes
3	0.411	0.411	0.008	0.043	0.011			12:12:07	Yes
Mean:	0.452	0.452	0.009						
SD:	0.051	0.051	0.0010						
%RSD:	11.19	11.19	11.19						

==========

Sequence No.: 65 **Autosampler Location: 54**
Sample ID: K0911120-019A **Date Collected: 12/16/2009 12:13:00 PM**
Analyst: **Data Type: Original**

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Replicate Data: K0911120-019A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.052	4.052	0.083	0.342	0.086			12:13:16	Yes
2	4.058	4.058	0.083	0.387	0.086			12:13:52	Yes
3	5.366	5.366	0.110	0.484	0.113			12:14:28	Yes
Mean:	4.492	4.492	0.092						
SD:	0.757	0.757	0.0155						
%RSD:	16.85	16.85	16.85						

==========

Sequence No.: 66 **Autosampler Location: 55**
Sample ID: K0911120-019D **Date Collected: 12/16/2009 12:15:21 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-019D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.724	0.724	0.015	0.078	0.017			12:15:38	Yes
2	0.785	0.785	0.016	0.080	0.019			12:16:14	Yes
3	0.675	0.675	0.014	0.069	0.016			12:16:50	Yes
Mean:	0.728	0.728	0.015						
SD:	0.055	0.055	0.0011						
%RSD:	7.573	7.573	7.57						

==========

Sequence No.: 67 **Autosampler Location: 56**
Sample ID: K0911120-019DA **Date Collected: 12/16/2009 12:17:43 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-019DA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.526	4.526	0.093	0.415	0.095			12:18:00	Yes
2	4.509	4.509	0.093	0.387	0.095			12:18:36	Yes
3	4.572	4.572	0.094	0.400	0.096			12:19:12	Yes
Mean:	4.536	4.536	0.093						
SD:	0.033	0.033	0.0007						
%RSD:	0.723	0.723	0.72						

Sequence No.: 68 **Autosampler Location: 57**
Sample ID: K0911120-019S **Date Collected: 12/16/2009 12:20:06 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-019S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.078	2.078	0.043	0.190	0.045			12:20:24	Yes
2	1.928	1.928	0.040	0.177	0.042			12:20:59	Yes
3	1.878	1.878	0.039	0.175	0.041			12:21:35	Yes
Mean:	1.962	1.962	0.040						
SD:	0.104	0.104	0.0021						
%RSD:	5.313	5.313	5.31						

Sequence No.: 69 **Autosampler Location: 58**
Sample ID: K0911120-019SA **Date Collected: 12/16/2009 12:22:29 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-019SA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.627	6.627	0.136	0.587	0.139			12:22:47	Yes
2	6.685	6.685	0.137	0.590	0.140			12:23:23	Yes
3	6.662	6.662	0.137	0.580	0.139			12:23:58	Yes
Mean:	6.658	6.658	0.137						
SD:	0.029	0.029	0.0006						
%RSD:	0.435	0.435	0.43						

Sequence No.: 70 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/16/2009 12:24:53 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.649	7.649	0.157	0.692	0.160			12:25:10	Yes
2	7.824	7.824	0.161	0.695	0.163			12:25:47	Yes
3	7.715	7.715	0.158	0.687	0.161			12:26:22	Yes
Mean:	7.729	7.729	0.159						
SD:	0.089	0.089	0.0018						
%RSD:	1.145	1.145	1.15						

QC value within limits for Se 196.03 Recovery = 103.06%
All analyte(s) passed QC.

Sequence No.: 71 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/16/2009 12:27:17 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.039	0.039	0.001	0.013	0.003			12:27:33	Yes
2	0.012	0.012	0.000	0.012	0.003			12:28:09	Yes
3	-0.014	-0.014	-0.000	-0.007	0.002			12:28:45	Yes
Mean:	0.013	0.013	0.000						
SD:	0.026	0.026	0.0005						
%RSD:	211.0	211.0	210.99						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72 **Autosampler Location: 59**
Sample ID: K0911120-020 **Date Collected: 12/16/2009 12:29:38 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-020

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.198	0.198	0.004	0.025	0.007			12:29:56	Yes
2	0.471	0.471	0.010	0.036	0.012			12:30:32	Yes
3	0.368	0.368	0.008	0.038	0.010			12:31:07	Yes
Mean:	0.346	0.346	0.007						
SD:	0.138	0.138	0.0028						
%RSD:	39.84	39.84	39.84						

Sequence No.: 73 **Autosampler Location: 60**
Sample ID: K0911120-020A **Date Collected: 12/16/2009 12:32:02 PM**
Analyst: **Data Type: Original**

JSD 12/16/09

Replicate Data: K0911120-020A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.078	4.078	0.084	0.362	0.086			12:32:20	Yes
2	4.216	4.216	0.087	0.395	0.089			12:32:56	Yes
3	5.181	5.181	0.106	0.470	0.109			12:33:32	Yes
Mean:	4.492	4.492	0.092						
SD:	0.601	0.601	0.0123						
%RSD:	13.38	13.38	13.38						

Sequence No.: 74 **Autosampler Location: 61**
Sample ID: K0911120-021 **Date Collected: 12/16/2009 12:34:26 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-021

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.819	2.819	0.058	0.277	0.060			12:34:45	Yes
2	2.779	2.779	0.057	0.264	0.060			12:35:21	Yes
3	2.673	2.673	0.055	0.259	0.057			12:35:57	Yes
Mean:	2.757	2.757	0.057						
SD:	0.075	0.075	0.0015						
%RSD:	2.737	2.737	2.74						

Sequence No.: 75 **Autosampler Location: 62**
Sample ID: K0911120-021A **Date Collected: 12/16/2009 12:36:51 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-021A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.093	6.093	0.125	0.561	0.128			12:37:10	Yes
2	6.090	6.090	0.125	0.571	0.128			12:37:46	Yes
3	6.113	6.113	0.125	0.554	0.128			12:38:22	Yes
Mean:	6.099	6.099	0.125						
SD:	0.012	0.012	0.0002						
%RSD:	0.199	0.199	0.20						

Sequence No.: 76 **Autosampler Location: 63**

Sample ID: K0911120-022 **Date Collected: 12/16/2009 12:39:17 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-022

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.884	0.884	0.018	0.092	0.021			12:39:32	Yes
2	0.802	0.802	0.016	0.086	0.019			12:40:08	Yes
3	0.781	0.781	0.016	0.077	0.019			12:40:44	Yes
Mean:	0.822	0.822	0.017						
SD:	0.055	0.055	0.0011						
%RSD:	6.644	6.644	6.64						

==========

Sequence No.: 77 **Autosampler Location: 64**
Sample ID: K0911120-022A **Date Collected: 12/16/2009 12:41:35 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-022A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.953	3.953	0.081	0.353	0.084			12:41:51	Yes
2	4.026	4.026	0.083	0.357	0.085			12:42:27	Yes
3	3.854	3.854	0.079	0.349	0.082			12:43:02	Yes
Mean:	3.944	3.944	0.081						
SD:	0.086	0.086	0.0018						
%RSD:	2.186	2.186	2.19						

==========

Sequence No.: 78 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/16/2009 12:43:54 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.387	7.387	0.152	0.666	0.154			12:44:12	Yes
2	7.407	7.407	0.152	0.664	0.155			12:44:48	Yes
3	7.588	7.588	0.156	0.671	0.158			12:45:24	Yes
Mean:	7.460	7.460	0.153						
SD:	0.111	0.111	0.0023						
%RSD:	1.486	1.486	1.49						

QC value within limits for Se 196.03 Recovery = 99.47%
All analyte(s) passed QC.

==========

Sequence No.: 79 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/16/2009 12:46:19 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.026	0.026	0.001	0.011	0.003			12:46:35	Yes
2	0.008	0.008	0.000	0.009	0.003			12:47:11	Yes
3	-0.021	-0.021	-0.000	0.007	0.002			12:47:46	Yes
Mean:	0.004	0.004	0.000						
SD:	0.024	0.024	0.0005						
%RSD:	570.5	570.5	570.50						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

==========

Analysis Begun

Logged In Analyst: ACQMET10 Technique: AA FIAS-Flame
Spectrometer Model: AAnalyst 200, S/N 200S5061701 Autosampler Model: AS-90

Sample Information File: C:\data-AA\ACQMET10\Sample Information\121609-Se.sif
Batch ID: 092508-Se
Results Data Set: 121609-Se
Results Library: R:\ICP\WIP\DATA\K-FLAA-02\Results.mdb

==========

Sequence No.: 80 Autosampler Location:
Sample ID: K0911120-MB Date Collected: 12/16/2009 12:49:33 PM
Analyst: Data Type: Original

Replicate Data: K0911120-MB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.030	-0.030	-0.001	0.008	0.002			12:49:44	Yes
2	-0.052	-0.052	-0.001	0.005	0.001			12:50:20	Yes
3	-0.063	-0.063	-0.001	0.003	0.001			12:50:55	Yes
Mean:	-0.048	-0.048	-0.001						
SD:	0.017	0.017	0.0003						
%RSD:	34.36	34.36	34.36						

==========

Sequence No.: 81 Autosampler Location:
Sample ID: K0911120-002 Date Collected: 12/16/2009 12:51:40 PM
Analyst: Data Type: Original

Replicate Data: K0911120-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.743	0.743	0.015	0.066	0.018			12:51:51	Yes
2	0.743	0.743	0.015	0.063	0.018			12:52:27	Yes
3	0.739	0.739	0.015	0.070	0.018			12:53:03	Yes
Mean:	0.742	0.742	0.015						
SD:	0.002	0.002	0.0000						
%RSD:	0.280	0.280	0.28						

==========

Sequence No.: 82 Autosampler Location:
Sample ID: K0911120-003A Date Collected: 12/16/2009 12:55:14 PM
Analyst: Data Type: Original

Replicate Data: K0911120-003A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.110	4.110	0.084	0.389	0.087			12:55:26	Yes
2	4.109	4.109	0.084	0.374	0.087			12:56:02	Yes
3	4.053	4.053	0.083	0.361	0.086			12:56:37	Yes
Mean:	4.091	4.091	0.084						
SD:	0.033	0.033	0.0007						
%RSD:	0.802	0.802	0.80						

==========

Sequence No.: 83 Autosampler Location:
Sample ID: K0911120-005 Date Collected: 12/16/2009 12:57:44 PM
Analyst: Data Type: Original

Replicate Data: K0911120-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

1	1.217	1.217	0.025	0.113	0.028		12:57:55	Yes
2	1.190	1.190	0.024	0.118	0.027		12:58:30	Yes
3	1.152	1.152	0.024	0.107	0.026		12:59:06	Yes
Mean:	1.186	1.186	0.024					
SD:	0.033	0.033	0.0007					
%RSD:	2.775	2.775	2.77					

Sequence No.: 84 **Autosampler Location:**
Sample ID: K0911120-005A **Date Collected: 12/16/2009 12:59:57 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-005A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.983	3.983	0.082	0.346	0.084			13:00:08	Yes
2	3.914	3.914	0.080	0.351	0.083			13:00:44	Yes
3	3.818	3.818	0.078	0.340	0.081			13:01:20	Yes
Mean:	3.905	3.905	0.080						
SD:	0.083	0.083	0.0017						
%RSD:	2.128	2.128	2.13						

Sequence No.: 85 **Autosampler Location:**
Sample ID: K0911120-007A **Date Collected: 12/16/2009 1:02:31 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-007A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.067	4.067	0.083	0.365	0.086			13:02:42	Yes
2	4.090	4.090	0.084	0.357	0.087			13:03:18	Yes
3	3.998	3.998	0.082	0.359	0.085			13:03:54	Yes
Mean:	4.052	4.052	0.083						
SD:	0.048	0.048	0.0010						
%RSD:	1.181	1.181	1.18						

Sequence No.: 86 **Autosampler Location:**
Sample ID: K0911120-009 **Date Collected: 12/16/2009 1:05:10 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-009

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.209	1.209	0.025	0.106	0.027			13:05:21	Yes
2	1.981	1.981	0.041	0.173	0.043			13:05:57	Yes
3	1.730	1.730	0.036	0.157	0.038			13:06:33	Yes
Mean:	1.640	1.640	0.034						
SD:	0.394	0.394	0.0081						
%RSD:	24.00	24.00	24.00						

Sequence No.: 87 **Autosampler Location:**
Sample ID: K0911120-009A **Date Collected: 12/16/2009 1:07:22 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-009A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.460	1.460	0.030	0.124	0.033			13:07:34	Yes
2	1.500	1.500	0.031	0.129	0.033			13:08:09	Yes
3	1.369	1.369	0.028	0.121	0.031			13:08:45	Yes

Mean:	1.443	1.443	0.030
SD:	0.067	0.067	0.0014
%RSD:	4.666	4.666	4.67

Sequence No.: 88 **Autosampler Location:**
Sample ID: K0911120-011 **Date Collected: 12/16/2009 1:10:21 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-011

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.644	2.644	0.054	0.246	0.057			13:10:33	Yes
2	2.662	2.662	0.055	0.245	0.057			13:11:09	Yes
3	2.635	2.635	0.054	0.247	0.057			13:11:45	Yes
Mean:	2.647	2.647	0.054						
SD:	0.014	0.014	0.0003						
%RSD:	0.515	0.515	0.51						

Sequence No.: 89 **Autosampler Location:**
Sample ID: K0911120-013 **Date Collected: 12/16/2009 1:13:02 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-013

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.263	1.263	0.026	0.120	0.028			13:13:13	Yes
2	1.253	1.253	0.026	0.115	0.028			13:13:48	Yes
3	1.249	1.249	0.026	0.118	0.028			13:14:24	Yes
Mean:	1.255	1.255	0.026						
SD:	0.007	0.007	0.0002						
%RSD:	0.597	0.597	0.60						

Sequence No.: 90 **Autosampler Location:**
Sample ID: CCV **Date Collected: 12/16/2009 1:15:48 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.483	7.483	0.154	0.665	0.156			13:15:59	Yes
2	7.461	7.461	0.153	0.661	0.156			13:16:35	Yes
3	7.448	7.448	0.153	0.735	0.155			13:17:10	Yes
Mean:	7.464	7.464	0.153						
SD:	0.018	0.018	0.0004						
%RSD:	0.236	0.236	0.24						

Sequence No.: 91 **Autosampler Location:**
Sample ID: CCB **Date Collected: 12/16/2009 1:18:17 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.048	-0.048	-0.001	-0.033	0.002			13:18:29	Yes
2	-0.045	-0.045	-0.001	-0.019	0.002			13:19:05	Yes
3	0.067	0.067	0.001	0.009	0.004			13:19:40	Yes
Mean:	-0.009	-0.009	-0.000						
SD:	0.065	0.065	0.0013						
%RSD:	743.1	743.1	743.14						

Sequence No.: 92
Sample ID: K0911120-014A
Analyst:

Autosampler Location:
Date Collected: 12/16/2009 1:20:42 PM
Data Type: Original

BS 12/16/09

Replicate Data: K0911120-014A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.892	4.892	0.100	0.465	0.103			13:20:54	Yes
2	5.133	5.133	0.105	0.492	0.108			13:21:29	Yes
3	6.918	6.918	0.142	0.660	0.145			13:22:05	Yes
Mean:	5.648	5.648	0.116						
SD:	1.107	1.107	0.0227						
%RSD:	19.60	19.60	19.60						

Sequence No.: 93
Sample ID: K0911120-014A
Analyst:

Autosampler Location:
Date Collected: 12/16/2009 1:24:38 PM
Data Type: Original

Replicate Data: K0911120-014A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.339	4.339	0.089	0.413	0.092			13:24:49	Yes
2	4.371	4.371	0.090	0.413	0.092			13:25:25	Yes
3	4.451	4.451	0.091	0.412	0.094			13:26:01	Yes
Mean:	4.387	4.387	0.090						
SD:	0.057	0.057	0.0012						
%RSD:	1.309	1.309	1.31						

Sequence No.: 94
Sample ID: K0911120-014
Analyst:

Autosampler Location:
Date Collected: 12/16/2009 1:27:12 PM
Data Type: Original

Replicate Data: K0911120-014

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.720	1.720	0.035	0.163	0.038			13:27:24	Yes
2	1.626	1.626	0.033	0.156	0.036			13:28:00	Yes
3	1.593	1.593	0.033	0.148	0.035			13:28:36	Yes
Mean:	1.646	1.646	0.034						
SD:	0.066	0.066	0.0014						
%RSD:	3.997	3.997	4.00						

Sequence No.: 95
Sample ID: K0911120-019A
Analyst:

Autosampler Location:
Date Collected: 12/16/2009 1:30:04 PM
Data Type: Original

Replicate Data: K0911120-019A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.876	3.876	0.080	0.346	0.082			13:30:16	Yes
2	3.935	3.935	0.081	0.356	0.083			13:30:52	Yes
3	3.974	3.974	0.082	0.359	0.084			13:31:27	Yes
Mean:	3.928	3.928	0.081						
SD:	0.050	0.050	0.0010						
%RSD:	1.262	1.262	1.26						

Sequence No.: 96

Autosampler Location:

Sample ID: K0911120-020A
Analyst:

Date Collected: 12/16/2009 1:32:53 PM
Data Type: Original

Replicate Data: K0911120-020A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.909	3.909	0.080	0.350	0.083			13:33:05	Yes
2	3.741	3.741	0.077	0.335	0.079			13:33:41	Yes
3	3.822	3.822	0.078	0.340	0.081			13:34:17	Yes
Mean:	3.824	3.824	0.079						
SD:	0.084	0.084	0.0017						
%RSD:	2.198	2.198	2.20						

Sequence No.: 97
Sample ID: CCV
Analyst:

Autosampler Location:
Date Collected: 12/16/2009 1:35:58 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.704	7.704	0.158	0.672	0.161			13:36:09	Yes
2	7.671	7.671	0.157	0.685	0.160			13:36:45	Yes
3	7.595	7.595	0.156	0.674	0.158			13:37:21	Yes
Mean:	7.657	7.657	0.157						
SD:	0.056	0.056	0.0012						
%RSD:	0.735	0.735	0.73						

Sequence No.: 98
Sample ID: CCB
Analyst:

Autosampler Location:
Date Collected: 12/16/2009 1:38:21 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.022	0.022	0.000	0.001	0.003			13:38:33	Yes
2	0.003	0.003	0.000	0.005	0.003			13:39:09	Yes
3	0.014	0.014	0.000	0.012	0.003			13:39:44	Yes
Mean:	0.013	0.013	0.000						
SD:	0.010	0.010	0.0002						
%RSD:	75.07	75.07	75.07						

Service Request # K0911120 (Sediment)
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	✓	
2. ICV within 10 % of true value	✓	
3. ICB below MRL	✓	
4. CRI 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	✓	

Comments:
File Name: 120109BICP02
Star Lims: 181336
Don't report Li by 200.7

Primary Review by JC Date 12/2/09

Secondary Review by [illegible] Date 12/2/09

Method: 2009A Sample Name: Blank Operator:
Comment:
Run Time: 12/01/09 09:03 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}
Avg	.0010	.0277	.0298	-.00009
Stddev	.0001	.0078	.0225	.00010
%RSD	6.145	28.31	75.62	108.26
#1	.0010	.0333	.0139	-.00002
#2	.0009	.0222	.0457	-.00016

Elem	Be3130	B_2497	Cd2265	Ca2112
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}
Avg	-.00405	.5430	.0007	.5112
Stddev	.00002	.0158	.0001	.0077
%RSD	.45980	2.917	9.287	1.502
#1	-.00406	.5543	.0008	.5058
#2	-.00403	.5318	.0007	.5166

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	.0124	-.0003	.0003	-.0138
Stddev	.0215	.0001	.0000	.0039
%RSD	172.8	26.46	13.62	28.30
#1	.0276	-.0002	.0003	-.0166
#2	-.0028	-.0004	.0003	-.0111

Elem	Fe2599	Fe2714	Pb2203	Mg2025
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}
Avg	.0044	.0002	.0005	.0970
Stddev	.0004	.0005	.0001	.0196
%RSD	9.568	217.2	13.40	20.23
#1	.0047	.0006	.0005	.1109
#2	.0041	-.0001	.0006	.0831

Elem	Mg2795	Mn2576	Mn2939	Mo2020
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}
Avg	.10504	.00146	-.0005	.0004
Stddev	.00781	.00014	.0000	.0001
%RSD	7.4334	9.8521	9.330	28.01
#1	.09952	.00136	-.0005	.0005
#2	.11056	.00156	-.0005	.0003

Elem	Ni2316	K_7664	Se1960	Ag3280
Line	231.604 {145}	766.490 { 44}	196.090 {171}	328.068 {102}
Avg	-.0003	-.0747	-.0319	-.2433
Stddev	.0001	.3832	.0098	.0000
%RSD	37.16	513.2	30.71	.0100
#1	-.0002	-.3456	-.0249	-.2433
#2	-.0003	.1963	-.0388	-.2432

Sample Name: Blank Run Time: 12/01/09 09:03

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0044	.0008	.0124	.0015
Stddev	.0018	.0000	.0002	.0001
%RSD	41.19	2.684	1.799	7.375
#1	.0056	.0008	.0123	.0016
#2	.0031	.0008	.0126	.0014

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0443	.2286	.00693	-.0004
Stddev	.0019	.0099	.00001	.0002
%RSD	4.388	4.317	.14150	44.70
#1	.0430	.2356	.00694	-.0003
#2	.0457	.2216	.00693	-.0005

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	-.15894	-.00506
Stddev	.17005	.00031
%RSD	107.00	6.1077
#1	-.03869	-.00485
#2	-.27918	-.00528

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	126.38
Stddev	.40
%RSD	.31472
#1	126.66
#2	126.10

12/1/09
12/2/09

Method: 2009A Sample Name: STDB ICP6-77-B Operator:
Comment:
Run Time: 12/01/09 09:06 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	.1579	4.8899	1.0165	46.33
Stddev	.0007	.0754	.0037	.56
%RSD	.4681	1.5427	.36405	1.218
#1	.1574	4.8366	1.0139	45.93
#2	.1584	4.9433	1.0192	46.73

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	1.418	54.71	1.549	240.9
Stddev	.013	.21	.006	1.1
%RSD	.8838	.3822	.3923	.4637
#1	1.409	54.56	1.545	241.7
#2	1.427	54.85	1.554	240.1

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	7.359	41.89	94.18	432.47
Stddev	.034	.35	.51	3.45
%RSD	.4570	.8340	.5429	.79887
#1	7.383	41.65	93.82	434.91
#2	7.335	42.14	94.54	430.03

Elem	Sr4077
Line	407.771 { 82}
Avg	18.166
Stddev	.013
%RSD	.07115
#1	18.175
#2	18.157

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	125.13
Stddev	.22
%RSD	.17440
#1	125.28
#2	124.97

Method: 2009A Sample Name: STDA ICP6-X1-C Operator:
Comment:
Run Time: 12/01/09 09:09 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	15.40	10.20	43.07	.4625
Stddev	.04	.04	.17	.0047
%RSD	.2452	.4357	.3992	1.022
#1	15.37	10.17	42.95	.4592
#2	15.42	10.23	43.19	.4659

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	55.62	.1899	.3043	24.99
Stddev	.19	.0008	.0020	.12
%RSD	.3499	.4216	.6576	.4835
#1	55.48	.1893	.3029	24.90
#2	55.76	.1905	.3057	25.07

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.6637	.1506	2139.4	4.8580
Stddev	.0078	.0008	5.5	.0004
%RSD	1.178	.5560	.25933	.00881
#1	.6693	.1500	2135.5	4.8577
#2	.6582	.1512	2143.3	4.8583

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.2473	.2791	9.320	26.49
Stddev	.0022	.0014	.079	.08
%RSD	.8772	.5060	.8444	.2935
#1	.2458	.2781	9.264	26.44
#2	.2489	.2801	9.376	26.55

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.1486	.3429	.2515	.36679
Stddev	.0007	.0011	.0010	.00008
%RSD	.4980	.3182	.4171	.02086
#1	.1481	.3421	.2508	.36674
#2	.1491	.3437	.2523	.36684

Elem	Tl1908
Line	190.864 {176}
Avg	.1326
Stddev	.0011
%RSD	.8062
#1	.1318
#2	.1333

Sample Name: STDA Run Time: 12/01/09 09:09

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	127.46
Stddev	.17
%RSD	.13638
#1	127.34
#2	127.59

Method: 2009A Sample Name: ICV1 ICP6-75-A Operator:
Comment:
Run Time: 12/01/09 09:12 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.983	2.541	2.562	5.1020	.12723	.0022
Stddev	.017	.009	.015	.0198	.00001	.0002
%RSD	.3345	.3636	.6022	.38790	.00823	8.311
#1	4.995	2.547	2.551	5.0880	.12723	.0021
#2	4.971	2.534	2.572	5.1160	.12724	.0023
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.262	12.79	.5126	1.250	.6248	2.603
Stddev	.007	.14	.0026	.004	.0029	.003
%RSD	.5793	1.121	.5113	.3376	.4655	.0947
#1	1.256	12.69	.5108	1.247	.6269	2.601
#2	1.267	12.89	.5145	1.253	.6228	2.605
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.528	12.79	1.2328	2.098	1.251	12.57
Stddev	.013	.01	.0027	.017	.005	.02
%RSD	.5225	.1071	.21821	.7903	.3921	.1524
#1	2.519	12.78	1.2309	2.086	1.248	12.56
#2	2.537	12.80	1.2347	2.110	1.255	12.58
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.569	.6224	12.31	.0090	1.249	1.260
Stddev	.016	.0037	.01	.0026	.002	.014
%RSD	.6125	.5874	.0722	29.15	.1254	1.090
#1	2.557	.6250	12.32	.0108	1.248	1.250
#2	2.580	.6198	12.31	.0071	1.251	1.269
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 12/01/09 09:12

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1139	.0102	2.0531	2.463	.00040	.00639
Stddev	.0201	.0028	.0042	.038	.00028	.00005
%RSD	17.68	27.23	.20551	1.557	70.169	.84606
#1	-.0997	.0083	2.0502	2.436	.00060	.00643
#2	-.1282	.0122	2.0561	2.490	.00020	.00635
Check ?	None	None	QC Pass	QC Pass	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	127.36
Stddev	.17
%RSD	.13693
#1	127.24
#2	127.48

Method: 2009A Sample Name: ICVB1 ICP6-80-C Operator:
Comment:
Run Time: 12/01/09 09:15 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.030	.0092	.0137	.00243	.00012	2.033
Stddev	.007	.0116	.0033	.00066	.00003	.013
%RSD	.6581	125.8	24.34	27.345	28.321	.6661
#1	1.035	.0174	.0161	.00289	.00014	2.024
#2	1.025	.0010	.0114	.00196	.00010	2.043
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	5.170	.0040	.0016	.0029	10.21
Stddev	.0001	.037	.0010	.0003	.0014	.13
%RSD	49.38	.7075	24.61	18.77	49.15	1.281
#1	.0001	5.144	.0047	.0018	.0019	10.12
#2	.0002	5.196	.0033	.0014	.0039	10.30
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0058	5.0669	10.33	.0147	-.0006	.0242
Stddev	.0023	.0389	.11	.0087	.0012	.0044
%RSD	40.67	.76725	1.036	59.10	202.3	18.10
#1	-.0074	5.0394	10.25	.0209	.0002	.0273
#2	-.0041	5.0943	10.40	.0086	-.0014	.0211
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	.0028	.0470	5.133	.0017	.0025
Stddev	.0136	.0009	.0007	.051	.0005	.0008
%RSD	108.1	30.64	1.503	.9958	29.74	30.66
#1	.0030	.0022	.0475	5.097	.0021	.0020
#2	.0222	.0034	.0465	5.170	.0013	.0031
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 12/01/09 09:15

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.087	5.160	.00175	.0076	Q 2.1406	1.9932
Stddev	.012	.018	.00086	.0046	.0035	.0090
%RSD	.2377	.3525	49.323	60.26	.16502	.45302
#1	5.079	5.147	.00237	.0044	2.1431	1.9868
#2	5.096	5.173	.00114	.0109	2.1381	1.9996
Check ?	QC Pass	QC Pass	None	None	QC Fail	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	126.82
Stddev	.48
%RSD	.37831
#1	127.15
#2	126.48

Method: 2009A Sample Name: ICVB1 Operator:
Comment:
Run Time: 12/01/09 09:18 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9931	-.0013	.0015	.00150	.00007	2.035
Stddev	.0278	.0019	.0005	.00013	.00005	.006
%RSD	2.804	147.1	32.43	8.6699	80.345	.3032
#1	1.013	.0001	.0018	.00159	.00010	2.030
#2	.9734	-.0026	.0011	.00141	.00003	2.039
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	5.178	.0028	.0013	.0021	10.10
Stddev	.0009	.006	.0002	.0007	.0009	.08
%RSD	599.7	.1158	8.484	56.08	44.68	.7634
#1	-.0005	5.173	.0030	.0008	.0014	10.04
#2	.0008	5.182	.0027	.0018	.0028	10.15
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0043	5.0877	10.26	.0052	.0004	.0272
Stddev	.0046	.0001	.02	.0011	.0009	.0028
%RSD	106.3	.00225	.1973	20.42	197.7	10.15
#1	-.0011	5.0878	10.25	.0045	-.0002	.0252
#2	-.0075	5.0876	10.28	.0060	.0010	.0292
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193	.0015	.0484	5.089	.0025	.0028
Stddev	.0042	.0004	.0037	.030	.0012	.0007
%RSD	21.72	29.57	7.716	.5835	45.69	23.39
#1	.0222	.0012	.0458	5.068	.0017	.0023
#2	.0163	.0018	.0510	5.110	.0034	.0033
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 12/01/09 09:18

Elem	P 2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.100	5.180	.00154	-.0019	Q 2.1380	1.9778
Stddev	.001	.019	.00124	.0115	.0059	.0053
%RSD	.0127	.3589	80.880	593.0	.27438	.26567
#1	5.100	5.167	.00242	.0062	2.1421	1.9740
#2	5.100	5.193	.00066	-.0101	2.1338	1.9815
Check ?	QC Pass	QC Pass	None	None	QC Fail	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	128.13
Stddev	.18
%RSD	.13853
#1	128.26
#2	128.01

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12/1/09

Method: 2009A Sample Name: ICB Operator:
Comment:
Run Time: 12/01/09 09:21 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054	-.0094	.0027	-.00003	.00001	.0021
Stddev	.0250	.0095	.0005	.00046	.00001	.0012
%RSD	463.6	101.6	17.58	1718.5	64.135	58.49
#1	-.0123	-.0026	.0024	-.00035	.00002	.0030
#2	.0230	-.0161	.0031	.00030	.00001	.0012
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0029	-.0004	-.0002	.0011	.0045
Stddev	.0000	.0018	.0005	.0004	.0003	.0051
%RSD	4.935	61.46	118.6	185.6	28.25	114.2
#1	-.0004	.0041	-.0001	.0001	.0013	.0081
#2	-.0004	.0016	-.0008	-.0004	.0009	.0009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.00016	.00151	.0020	.0001	-.0153
Stddev	.0057	.00012	.00151	.0009	.0016	.0203
%RSD	189.8	77.500	100.41	47.22	2097.	132.9
#1	.0010	.00025	.00258	.0027	-.0010	-.0296
#2	-.0070	.00007	.00044	.0013	.0012	-.0009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133	.0039	.0078	.0067	.0014	-.0008
Stddev	.0031	.0006	.0046	.0084	.0002	.0007
%RSD	23.60	14.84	59.98	124.9	11.88	83.39
#1	.0111	.0035	.0045	.0127	.0013	-.0013
#2	.0156	.0043	.0110	.0008	.0015	-.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: ICB Run Time: 12/01/09 09:21

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0116	-.0027	.00129	.0073	.00019	.00011
Stddev	.0033	.0001	.00004	.0000	.00061	.00005
%RSD	28.26	4.088	2.8047	.4309	321.44	41.854
#1	-.0093	-.0026	.00126	.0073	.00062	.00015
#2	-.0139	-.0027	.00131	.0073	-.00024	.00008
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	125.57
Stddev	.19
%RSD	.15255
#1	125.71
#2	125.44

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 09:26 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.931	.0061	-.0031	2.4711	.05051	.0019
Stddev	.031	.0062	.0091	.0060	.00017	.0009
%RSD	.6210	101.7	294.8	.24131	.33171	50.82
#1	4.888	-.0009	-.0038	2.4628	.05037	.0016
#2	4.930	.0027	-.0126	2.4769	.05057	.0010
#3	4.959	.0108	.0092	2.4721	.05072	.0032
#4	4.946	.0117	-.0051	2.4727	.05038	.0015
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	25.79	.0014	-.0009	-.0002	25.23
Stddev	.0003	.14	.0010	.0006	.0023	.04
%RSD	55.07	.5298	71.80	65.68	915.4	.1402
#1	-.0001	25.61	.0016	-.0002	.0003	25.22
#2	-.0006	25.82	.0001	-.0010	-.0035	25.18
#3	-.0008	25.81	.0012	-.0007	.0017	25.25
#4	-.0006	25.94	.0025	-.0016	.0006	25.26
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0083	25.50	5.040	-.0005	-.0024	10.11
Stddev	.0039	.07	.011	.0008	.0013	.06
%RSD	46.64	.2823	.2126	163.1	54.33	.5514
#1	-.0097	25.43	5.029	.0002	-.0006	10.13
#2	-.0028	25.50	5.035	-.0012	-.0023	10.16
#3	-.0090	25.60	5.054	.0002	-.0036	10.13
#4	-.0119	25.49	5.043	-.0011	-.0030	10.03
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 12/01/09 09:26

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056	.0030	9.849	-.0056	.0036	.0007
Stddev	.0142	.0013	.068	.0018	.0008	.0004
%RSD	256.3	41.83	.6909	31.36	21.67	60.08
#1	.0130	.0015	9.830	-.0047	.0035	.0011
#2	.0041	.0044	9.918	-.0080	.0026	.0008
#3	.0189	.0036	9.886	-.0040	.0037	.0009
#4	-.0137	.0026	9.762	-.0058	.0045	.0001
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.18	2.537	.00224	-.0130	.51352	.51172
Stddev	.03	.006	.00068	.0077	.00262	.00020
%RSD	.2579	.2484	30.074	59.51	.51064	.03833
#1	10.19	2.534	.00164	-.0150	.51169	.51151
#2	10.20	2.534	.00294	-.0199	.51636	.51159
#3	10.14	2.546	.00270	-.0019	.51511	.51184
#4	10.20	2.533	.00169	-.0150	.51093	.51192
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	127.39
Stddev	.13
%RSD	.10241
#1	127.38
#2	127.29
#3	127.32
#4	127.58

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 09:31 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4728	2.481	2.470	.46302	.55624	.5019
Stddev	.0113	.010	.019	.00152	.00076	.0018
%RSD	2.380	.4206	.7512	.32761	.13593	.3528
#1	.4566	2.474	2.474	.46111	.55574	.5014
#2	.4742	2.476	2.461	.46430	.55716	.4996
#3	.4817	2.478	2.494	.46418	.55653	.5029
#4	.4788	2.496	2.451	.46250	.55551	.5036
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4989	2.539	.5010	.5003	.5047	.5010
Stddev	.0016	.010	.0036	.0023	.0047	.0023
%RSD	.3290	.3768	.7140	.4605	.9250	.4518
#1	.4966	2.536	.4970	.4969	.5099	.5035
#2	.5003	2.527	.5057	.5008	.4992	.5020
#3	.4998	2.544	.5011	.5015	.5069	.5000
#4	.4990	2.549	.5001	.5019	.5030	.4983
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.498	2.0628	.97877	.9979	.5017	5.031
Stddev	.010	.0041	.00859	.0058	.0027	.010
%RSD	.3826	.19873	.87713	.5825	.5469	.1914
#1	2.485	2.0637	.97084	.9907	.4987	5.022
#2	2.498	2.0609	.98791	1.005	.5041	5.025
#3	2.507	2.0584	.98424	.9966	.5040	5.043
#4	2.503	2.0680	.97208	.9997	.5001	5.036
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 12/01/09 09:31

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.493	.5038	.5240	2.496	.5012	.5004
Stddev	.007	.0038	.0015	.031	.0026	.0053
%RSD	.3020	.7479	.2855	1.242	.5223	1.068
#1	2.484	.5044	.5237	2.450	.5034	.4932
#2	2.502	.5030	.5222	2.509	.4984	.5048
#3	2.492	.5084	.5257	2.517	.5035	.5041
#4	2.495	.4993	.5247	2.507	.4996	.4996
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0944	.2874	.49982	4.961	.52006	.51220
Stddev	.0064	.0019	.00082	.037	.00199	.00082
%RSD	6.807	.6472	.16482	.7495	.38335	.16105
#1	-.1034	.2855	.50022	4.937	.51847	.51252
#2	-.0901	.2866	.50075	4.939	.51829	.51143
#3	-.0894	.2875	.49939	5.016	.52231	.51321
#4	-.0947	.2898	.49891	4.953	.52115	.51164
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	128.19
Stddev	.25
%RSD	.19676
#1	127.99
#2	128.00
#3	128.23
#4	128.53

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 09:37 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	.0028	.0075	-.00015	.00003	-.0003
Stddev	.0099	.0178	.0043	.00018	.00006	.0004
%RSD	102.3	642.3	57.65	116.14	192.44	117.2
#1	.0167	.0153	.0106	-.00003	-.00001	-.0006
#2	.0027	-.0098	.0044	-.00028	.00008	-.0001
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0019	.0001	.0003	.0024	.0003
Stddev	.0001	.0060	.0017	.0001	.0018	.0008
%RSD	38.61	320.4	1898.	17.97	75.61	296.6
#1	-.0003	-.0024	.0013	.0003	.0036	.0009
#2	-.0004	.0061	-.0011	.0003	.0011	-.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.00019	.00061	.0045	-.0007	-.0196
Stddev	.0063	.00001	.00016	.0022	.0006	.0002
%RSD	148.1	7.5472	26.217	47.49	88.90	.7644
#1	.0086	.00020	.00072	.0061	-.0011	-.0197
#2	-.0002	.00018	.00050	.0030	-.0003	-.0195
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111	.0028	.0072	.0046	.0033	-.0012
Stddev	.0063	.0016	.0006	.0071	.0011	.0000
%RSD	56.58	57.81	8.331	153.6	34.71	.8204
#1	.0067	.0039	.0068	.0097	.0025	-.0012
#2	.0155	.0016	.0077	-.0004	.0041	-.0012
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 09:37

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0034	.00122	.0087	.00059	.00011
Stddev	.0047	.0005	.00136	.0071	.00026	.00002
%RSD	357.2	15.57	112.00	81.07	43.358	17.699
#1	.0020	-.0030	.00025	.0037	.00041	.00012
#2	-.0046	-.0038	.00218	.0137	.00078	.00009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	124.15
Stddev	.25
%RSD	.19987
#1	124.33
#2	123.98

Method: 2009A Sample Name: CRI' ICP6-80-A Operator:
Comment:
Run Time: 12/01/09 09:40 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0587	.0401	.0893	.00454	.00541	.0485
Stddev	.0202	.0019	.0179	.00019	.00010	.0011
%RSD	34.37	4.739	19.99	4.1478	1.8755	2.302
#1	.0729	.0387	.0767	.00441	.00534	.0477
#2	.0444	.0414	.1019	.00468	.00548	.0493
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	100.0%	100.0%	100.00%	100.00%	100.0%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	.0595	.0048	.0102	.0126	.0191
Stddev	.0002	.0007	.0004	.0002	.0004	.0002
%RSD	4.922	1.167	7.863	2.119	3.129	1.004
#1	.0047	.0590	.0051	.0104	.0128	.0190
#2	.0044	.0600	.0045	.0101	.0123	.0193
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0511	.02073	.00494	.0106	.0204	.4066
Stddev	.0067	.00034	.00002	.0009	.0001	.0049
%RSD	13.16	1.6615	.38959	8.739	.3477	1.210
#1	.0463	.02048	.00495	.0113	.0204	.4101
#2	.0558	.02097	.00493	.0100	.0205	.4032
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	100.0%	100.00%	100.00%	100.0%	100.0%	100.0%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0934	.0113	.2018	.0435	.0114	.0085
Stddev	.0031	.0004	.0011	.0003	.0020	.0004
%RSD	3.354	3.890	.5449	.6373	17.21	5.212
#1	.0956	.0110	.2026	.0433	.0128	.0082
#2	.0912	.0116	.2010	.0437	.0100	.0088
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sample Name: CRI Run Time: 12/01/09 09:40

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1812	.4041	.01018	.1847	.01059	.00967
Stddev	.0004	.0015	.00088	.0110	.00029	.00007
%RSD	.2441	.3802	8.6828	5.973	2.7012	.72658
#1	.1815	.4030	.01080	.1925	.01079	.00972
#2	.1809	.4052	.00955	.1769	.01038	.00962
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	100.0%	100.0%	100.00%	100.0%	100.00%	100.00%

Int. Std.	Sc3572
Units	Cts/S
Avg	126.51
Stddev	.46
%RSD	.36364
#1	126.18
#2	126.84

Method: 2009A Sample Name: ICSA ICP6-82-A Operator:
Comment:
Run Time: 12/01/09 09:43 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	546.4	.0618	-.0068	-.00084	.00016	.0163
Stddev	3.0	.0001	.0081	.00021	.00003	.0038
%RSD	.5505	.0880	119.9	24.359	16.450	23.52
#1	544.3	.0618	-.0010	-.00099	.00014	.0136
#2	548.5	.0618	-.0125	-.00070	.00017	.0190
Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	508.9	-.0061	.0001	.0017	197.7
Stddev	.0006	4.2	.0009	.0006	.0016	1.9
%RSD	731.5	.8223	15.47	567.2	95.68	.9745
#1	.0005	505.9	-.0067	.0005	.0029	196.3
#2	-.0004	511.9	-.0054	-.0003	.0006	199.0
Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0159	525.3	.00321	-.0096	-.0022	-.0430
Stddev	.0063	2.2	.00012	.0035	.0006	.0019
%RSD	39.91	.4201	3.7518	36.87	28.47	4.433
#1	-.0114	523.7	.00329	-.0121	-.0018	-.0443
#2	-.0203	526.8	.00312	-.0071	-.0026	-.0416
Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0035	.0754	-.0174	.0028	-.0003
Stddev	.0064	.0012	.0004	.0040	.0000	.0003
%RSD	99.27	33.73	.4758	22.92	1.281	114.6
#1	.0019	.0026	.0757	-.0146	.0028	-.0001
#2	.0110	.0043	.0752	-.0202	.0028	-.0005
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 12/01/09 09:43

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0375	-.0213	.05928	-.0577	.01380	.05235
Stddev	.0154	.0036	.00031	.0001	.00028	.00018
%RSD	41.16	17.16	.51872	.1087	2.0239	.34757
#1	.0266	-.0187	.05950	-.0578	.01360	.05222
#2	.0484	-.0238	.05907	-.0577	.01400	.05247
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	115.83
Stddev	.27
%RSD	.23487
#1	116.03
#2	115.64

Method: 2009A Sample Name: ICSAB ICP6-78-A Operator:
Comment:
Run Time: 12/01/09 09:46 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	538.1	1.027	.0156	.44873	.56159	.0867
Stddev	4.3	.008	.0021	.00315	.00038	.0002
%RSD	.8084	.8001	13.75	.70226	.06784	.2110
#1	535.0	1.021	.0140	.44650	.56132	.0865
#2	541.2	1.032	.0171	.45096	.56186	.0868
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9264	505.3	.4808	.4680	.4587	196.3
Stddev	.0080	6.1	.0024	.0025	.0009	1.6
%RSD	.8640	1.204	.5062	.5434	.1939	.8035
#1	.9208	501.0	.4791	.4662	.4593	195.2
#2	.9321	509.6	.4825	.4698	.4581	197.4
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9396	521.4	.45089	-.0099	.9173	-.0483
Stddev	.0057	.3	.00356	.0003	.0001	.0008
%RSD	.6098	.0548	.78946	2.842	.0139	1.673
#1	.9355	521.6	.44838	-.0101	.9172	-.0477
#2	.9436	521.2	.45341	-.0097	.9174	-.0489
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.9497	.0534	-.0357	.5007	.9155
Stddev	.0051	.0023	.0003	.0026	.0067	.0111
%RSD	157.9	.2397	.5339	7.171	1.334	1.216
#1	.0069	.9481	.0532	-.0339	.4960	.9076
#2	-.0004	.9513	.0536	-.0375	.5055	.9234
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 12/01/09 09:46

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0850	-.0220	.05975	-.0808	.01401	.05261
Stddev	.0047	.0038	.00029	.0123	.00032	.00021
%RSD	5.521	17.49	.48320	15.27	2.2827	.39912
#1	-.0817	-.0193	.05995	-.0721	.01379	.05276
#2	-.0884	-.0247	.05954	-.0895	.01424	.05246
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	115.99
Stddev	.14
%RSD	.11805
#1	115.90
#2	116.09

Method: 2009A Sample Name: ICSAB Operator:
Comment:
Run Time: 12/01/09 09:50 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	541.2	1.022	-.0062	.45141	.56193	.0925
Stddev	2.6	.000	.0074	.00109	.00082	.0043
%RSD	.4806	.0041	120.2	.24175	.14679	4.682
#1	543.0	1.022	-.0009	.45064	.56135	.0895
#2	539.3	1.022	-.0114	.45219	.56252	.0956
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9304	504.5	.4820	.4702	.4572	197.0
Stddev	.0006	2.5	.0020	.0026	.0039	.0
%RSD	.0648	.4864	.4110	.5507	.8519	.0111
#1	.9299	502.8	.4834	.4720	.4600	197.0
#2	.9308	506.3	.4806	.4684	.4545	197.0
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9459	521.1	.45113	-.0091	.9211	-.0731
Stddev	.0010	2.4	.00171	.0008	.0052	.0086
%RSD	.1069	.4626	.37973	8.697	.5672	11.76
#1	.9466	519.4	.45234	-.0097	.9174	-.0792
#2	.9452	522.8	.44992	-.0085	.9248	-.0670
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.9458	.0506	-.0331	.5020	.9181
Stddev	.0115	.0068	.0002	.0121	.0053	.0028
%RSD	184.1	.7152	.3067	36.45	1.049	.3034
#1	-.0019	.9411	.0505	-.0416	.5057	.9161
#2	.0144	.9506	.0507	-.0246	.4983	.9201
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

SC 12/1/09

Sample Name: ICSAB Run Time: 12/01/09 09:50

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0686	-.0172	.06081	-.0651	.01363	.05226
Stddev	.0075	.0012	.00089	.0014	.00010	.00061
%RSD	10.98	7.253	1.4590	2.104	.73335	1.1703
#1	-.0633	-.0163	.06144	-.0641	.01356	.05269
#2	-.0739	-.0181	.06019	-.0661	.01370	.05183
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	115.61
Stddev	.74
%RSD	.63995
#1	115.09
#2	116.13

3C
12/11/09

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 09:53 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.180	.0153	.0001	2.4962	.05145	.0043
Stddev	.014	.0000	.0102	.0039	.00013	.0003
%RSD	.2770	.0123	12530.	.15637	.24396	6.942
#1	5.190	.0153	-.0071	2.4935	.05153	.0045
#2	5.170	.0153	.0073	2.4990	.05136	.0040
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	25.82	.0015	-.0012	-.0006	25.78
Stddev	.0002	.17	.0011	.0005	.0006	.08
%RSD	119.0	.6557	73.38	42.16	113.3	.3079
#1	.0000	25.70	.0022	-.0008	-.0001	25.72
#2	-.0004	25.94	.0007	-.0015	-.0010	25.83
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	25.63	5.132	.0012	-.0016	10.06
Stddev	.0052	.18	.002	.0011	.0022	.05
%RSD	142.9	.6968	.0440	89.81	138.3	.4488
#1	.0000	25.51	5.130	.0004	-.0032	10.09
#2	-.0073	25.76	5.133	.0020	.0000	10.03
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0028	9.959	-.0027	.0041	.0004
Stddev	.0042	.0026	.046	.0040	.0006	.0004
%RSD	1248.	95.57	.4593	148.7	15.44	98.08
#1	-.0033	.0009	9.991	.0001	.0046	.0007
#2	.0026	.0046	9.926	-.0055	.0037	.0001
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 09:53

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.16	2.544	.00329	-.0224	.51371	.52268
Stddev	.08	.013	.00105	.0001	.00147	.00142
%RSD	.8224	.4943	31.997	.2391	.28573	.27114
#1	10.10	2.535	.00255	-.0224	.51474	.52368
#2	10.22	2.553	.00404	-.0224	.51267	.52168
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	125.33
Stddev	.08
%RSD	.06458
#1	125.39
#2	125.28

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 09:56 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4688	2.466	2.458	.46223	.56081	.4996
Stddev	.0052	.036	.038	.00706	.00224	.0026
%RSD	1.105	1.446	1.548	1.5275	.39985	.5166
#1	.4651	2.441	2.431	.45724	.55922	.4978
#2	.4725	2.491	2.485	.46722	.56239	.5015
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4970	2.554	.4994	.5000	.5021	.5154
Stddev	.0080	.007	.0084	.0070	.0028	.0043
%RSD	1.604	.2679	1.678	1.402	.5628	.8412
#1	.4914	2.550	.4935	.4950	.5041	.5185
#2	.5026	2.559	.5054	.5050	.5001	.5124
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.502	2.0757	.97709	.9902	.5001	5.056
Stddev	.047	.0045	.00620	.0219	.0065	.026
%RSD	1.862	.21720	.63490	2.209	1.302	.5173
#1	2.469	2.0725	.97271	.9748	.4955	5.075
#2	2.535	2.0789	.98148	1.006	.5048	5.038
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.486	.5034	.5240	2.511	.5025	.4967
Stddev	.017	.0026	.0015	.057	.0048	.0102
%RSD	.6926	.5211	.2887	2.260	.9465	2.054
#1	2.474	.5053	.5251	2.471	.4991	.4895
#2	2.498	.5015	.5229	2.552	.5058	.5039
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 09:56

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0924	.2894	.50073	4.956	.52846	.51850
Stddev	.0061	.0011	.00089	.067	.00376	.00322
%RSD	6.592	.3818	.17796	1.347	.71110	.62058
#1	-.0881	.2886	.50010	4.909	.53111	.51623
#2	-.0967	.2902	.50136	5.004	.52580	.52078
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	127.84
Stddev	.51
%RSD	.40116
#1	128.20
#2	127.48

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 09:59 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294	.0113	.0075	.00009	.00004	-.0012
Stddev	.0040	.0159	.0072	.00021	.00002	.0006
%RSD	13.76	140.7	96.38	241.52	64.523	44.90
#1	.0265	.0225	.0024	-.00006	.00005	-.0008
#2	.0322	.0001	.0126	.00023	.00002	-.0016
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0027	.0001	.0005	.0010	.0040
Stddev	.001	.0009	.0000	.0011	.0000	.0016
%RSD	2652.	32.21	65.84	198.7	.0291	39.52
#1	.0004	.0034	.0001	.0013	.0010	.0052
#2	-.0005	.0021	.0000	-.0002	.0010	.0029
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0123	.00188	.00089	.0047	.0004	-.0075
Stddev	.0018	.00026	.00017	.0018	.0000	.0161
%RSD	14.89	14.049	19.631	39.70	6.316	215.4
#1	-.0136	.00207	.00101	.0060	.0004	.0039
#2	-.0110	.00170	.00077	.0033	.0005	-.0188
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0010	.0056	.0016	.0021	-.0014
Stddev	.0031	.0003	.0046	.0013	.0007	.0008
%RSD	213.0	28.67	82.05	85.03	31.32	56.77
#1	-.0007	.0008	.0088	.0025	.0026	-.0009
#2	.0037	.0012	.0023	.0006	.0017	-.0020
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 09:59

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0030	.00080	.0172	.00055	.00016
Stddev	.0140	.0004	.00096	.0071	.00016	.00001
%RSD	2163.	13.49	119.25	41.42	29.766	4.8305
#1	-.0106	-.0033	.00013	.0222	.00043	.00017
#2	.0093	-.0027	.00148	.0121	.00066	.00016
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	124.45
Stddev	.05
%RSD	.03841
#1	124.48
#2	124.42

Method: 2009A Sample Name: K0910900-MB Operator: JC
Comment: RD (181336) (120109B)
Run Time: 12/01/09 10:02 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	-.0040	.0000	.00004	.00004
#1	-.0094	.0000	-.0031	.00021	.00006
#2	-.0038	-.0081	.0031	-.00014	.00003

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0005	.0089	-.0002	.0006
#1	-.0008	-.0004	.0096	-.0001	.0003
#2	-.0006	-.0005	.0083	-.0003	.0009

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0026	-.0041	.00085	.00003
#1	.0012	.0032	.0010	.00097	.00004
#2	.0019	.0021	-.0093	.00073	.00002

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0003	-.0092	.0052	.0034
#1	.0003	.0002	-.0007	-.0022	.0012
#2	.0005	.0005	-.0177	.0126	.0056

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0041	.0039	-.0015	.1633
#1	-.0027	.0093	.0049	-.0013	.1643
#2	-.0004	-.0011	.0029	-.0017	.1623

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.00074	.0106	.00004	.00006
#1	-.0017	-.00017	.0040	-.00005	.00006
#2	.0010	.00165	.0173	.00014	.00006

Int. Std.	Sc3572
Units	Cts/S
Avg	125.58
#1	125.54
#2	125.61

Method: 2009A Sample Name: LCSW Operator: JC
Comment: RD K0910900 (181336) (120109B)
Run Time: 12/01/09 10:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.018	2.588	2.544	5.1569	.12973	1.039
#1	5.002	2.557	2.534	5.1539	.12950	1.037
#2	5.033	2.620	2.554	5.1600	.12997	1.042

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255	12.88	.5169	1.267	.6213	2.553
#1	1.247	12.75	.5162	1.261	.6224	2.542
#2	1.263	13.00	.5177	1.273	.6202	2.564

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.537	12.81	1.2424	1.039	1.256	12.48
#1	2.524	12.72	1.2346	1.032	1.253	12.49
#2	2.550	12.91	1.2502	1.046	1.258	12.46

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.560	.6232	12.37	-.0001	1.260	1.261
#1	2.540	.6214	12.36	.0064	1.257	1.250
#2	2.581	.6251	12.37	-.0066	1.264	1.272

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0447	.0089	.00274	2.469	.00094	.00587
#1	.0315	.0096	.00359	2.455	.00088	.00592
#2	.0580	.0083	.00190	2.482	.00099	.00582

Int. Std.	Sc3572
Units	Cts/S
Avg	125.88
#1	125.97
#2	125.79

Method: 2009A Sample Name: K0910900-003 Operator: JC
Comment: RD (181336) (120109B)
Run Time: 12/01/09 10:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205	-.0075	-.0051	.00253	.00001	.0822
#1	.0213	-.0142	-.0109	.00307	.00007	.0822
#2	.0197	-.0008	.0007	.00199	-.00005	.0822

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	26.46	.0002	.0026	.0029	.0237
#1	.0005	26.25	-.0008	.0027	.0030	.0253
#2	-.0001	26.66	.0011	.0025	.0029	.0221

Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0034	9.466	8.8719	.04668	.0085	.0053
#1	.0014	9.428	8.8556	.04674	.0100	.0054
#2	-.0082	9.504	8.8882	.04663	.0071	.0052

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.715	.0052	.0022	12.25	-.0033	.0109
#1	4.719	-.0022	.0017	12.31	-.0042	.0097
#2	4.712	.0126	.0027	12.20	-.0023	.0121

Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.2038	28.93	.00229	.0055	.00267
#1	.0008	.1903	28.77	.00243	.0096	.00269
#2	.0012	.2173	29.09	.00215	.0014	.00265

Elem	Sr4077
Units	ppm
Avg	.11996
#1	.12006
#2	.11986

Int. Std.	Sc3572
Units	Cts/S
Avg	126.13
#1	126.03
#2	126.24

Method: 2009A Sample Name: K0910900-003D Operator: JC
Comment: RD (181336) (120109B)
Run Time: 12/01/09 10:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0073	-.0094	-.0085	.00193	-.00005
#1	-.0128	-.0080	-.0157	.00225	-.00004
#2	-.0018	-.0107	-.0013	.00160	-.00006

Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0823	.0001	26.29	.0019	.0022
#1	.0823	.0003	26.06	.0025	.0017
#2	.0824	-.0001	26.52	.0013	.0027

Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mg2795
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.0227	-.0015	9.312	8.7802
#1	.0025	.0231	-.0021	9.341	8.7605
#2	.0043	.0223	-.0010	9.284	8.8000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04568	.0045	.0046	4.670	.0156
#1	.04550	.0058	.0050	4.672	.0215
#2	.04587	.0033	.0042	4.668	.0096

Elem	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0026	12.08	-.0077	.0107	.0010
#1	.0037	12.07	-.0021	.0113	.0004
#2	.0014	12.09	-.0132	.0101	.0016

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm
Avg	.2300	28.65	.00049	.0082	.00303
#1	.2227	28.51	.00081	.0032	.00294
#2	.2373	28.79	.00017	.0131	.00313

Elem	Sr4077
Units	ppm
Avg	.11794
#1	.11812
#2	.11777

Int. Std.	Sc3572
Units	Cts/S
Avg	127.13
#1	127.00
#2	127.26

Method: 2009A Sample Name: K0910900-003L Operator: JC
Comment: RD 1/5 (181336) (120109B)
Run Time: 12/01/09 10:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131	-.0080	.0023	.00014	.00001	.0154
#1	.0068	-.0053	.0047	.00004	-.00002	.0153
#2	.0193	-.0108	-.0001	.00024	.00005	.0155

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	5.299	.0008	.0011	.0026	.0048
#1	-.0003	5.286	.0013	.0016	.0017	.0050
#2	-.0003	5.312	.0003	.0005	.0035	.0046

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0053	1.9787	.00943	.0019	.0013	.9686
#1	-.0031	1.9750	.00940	.0027	.0004	.9513
#2	-.0075	1.9825	.00947	.0010	.0022	.9859

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.0035	2.407	-.0082	.0033	-.0008
#1	-.0067	.0031	2.425	-.0054	.0028	-.0007
#2	.0022	.0039	2.390	-.0110	.0039	-.0009

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0447	5.319	.00097	-.0006	.00093	.02461
#1	.0470	5.313	.00036	-.0072	.00099	.02461
#2	.0424	5.324	.00158	.0060	.00087	.02461

Int. Std.	Sc3572
Units	Cts/S
Avg	126.81
#1	126.81
#2	126.81

Method: 2009A Sample Name: K0910900-003S Operator: JC
Comment: RD (181336) (120109B)
Run Time: 12/01/09 10:17 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.032	.4752	.9831	2.0220	.05163	1.117
#1	2.030	.4804	.9787	2.0151	.05154	1.117
#2	2.033	.4699	.9875	2.0288	.05171	1.118

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498	26.68	.2023	.5059	.2449	1.032
#1	.0497	26.54	.2018	.5036	.2447	1.029
#2	.0500	26.82	.2028	.5082	.2451	1.035

Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4995	9.505	8.8267	.52113	1.035	.5014
#1	.4971	9.520	8.7965	.51901	1.028	.5019
#2	.5019	9.491	8.8568	.52325	1.042	.5009

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.701	.9953	.0499	12.23	.0021	.5114
#1	4.705	.9849	.0495	12.23	-.0004	.5120
#2	4.696	1.006	.0503	12.22	.0047	.5108

Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4984	.2470	29.31	.00336	.9550	.00269
#1	.4948	.2411	29.27	.00199	.9445	.00308
#2	.5021	.2530	29.35	.00474	.9656	.00230

Elem	Sr4077
Units	ppm
Avg	.11926
#1	.11933
#2	.11919

Int. Std.	Sc3572
Units	Cts/S
Avg	126.42
#1	126.29
#2	126.55

Method: 2009A Sample Name: RB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:20 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078	-.0009	.0092	.00038	.00006	-.0004
#1	.0204	-.0017	.0194	.00092	.00007	.0001
#2	-.0048	.0000	-.0010	-.00016	.00006	-.0010

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0065	.0011	.0001	.0018	.0069
#1	-.0006	.0046	.0010	.0004	.0011	.0076
#2	-.0006	.0083	.0012	-.0003	.0024	.0062

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.00060	.00027	.0024	.0007	-.0150
#1	.0085	.00085	.00037	.0037	.0006	-.0179
#2	-.0081	.00035	.00018	.0012	.0008	-.0122

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0050	-.0013	-.0004	.0022	.0001
#1	-.0081	.0039	-.0001	-.0029	.0012	.0007
#2	.0096	.0060	-.0025	.0020	.0031	-.0005

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0156	.0022	.00047	.0038	-.00024	-.00002
#1	-.0093	.0049	-.00023	.0172	-.00023	-.00003
#2	-.0218	-.0005	.00116	-.0096	-.00025	.00000

Int. Std.	Sc3572
Units	Cts/S
Avg	124.96
#1	125.12
#2	124.81

Method: 2009A Sample Name: K0910900-MB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0107	.0065	-.00008	.00006	-.0018
#1	.0128	-.0152	.0037	-.00017	.00009	-.0016
#2	-.0124	-.0063	.0092	.00002	.00003	-.0020

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0041	-.0004	.0002	.0023	-.0032
#1	.0000	.0024	-.0007	.0007	.0039	-.0029
#2	-.0005	.0058	.0000	-.0002	.0008	-.0035

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0097	.00029	.00006	.0013	.0005	-.0118
#1	-.0129	.00035	.00010	.0015	.0002	-.0172
#2	-.0064	.00022	.00002	.0012	.0007	-.0064

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081	.0062	-.0013	-.0022	.0018	-.0014
#1	.0081	.0079	-.0017	-.0105	.0025	-.0005
#2	.0081	.0045	-.0009	.0062	.0011	-.0022

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1420	.0004	.00097	-.0034	.00037	-.00001
#1	.1383	-.0001	.00171	-.0042	.00047	-.00002
#2	.1457	.0010	.00022	-.0025	.00027	.00000

Int. Std.	Sc3572
Units	Cts/S
Avg	126.05
#1	125.98
#2	126.13

Method: 2009A Sample Name: LCSW Operator: JC
Comment: K0910900 (181336) (120109B)
Run Time: 12/01/09 10:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.039	2.585	2.593	5.1976	.13120	1.058
#1	5.012	2.574	2.570	5.1588	.13131	1.052
#2	5.067	2.597	2.616	5.2364	.13109	1.064

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255	13.07	.5202	1.271	.6417	2.658
#1	1.243	12.94	.5152	1.260	.6427	2.634
#2	1.267	13.19	.5251	1.283	.6407	2.682

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.521	13.11	1.2462	1.044	1.264	12.84
#1	2.487	13.04	1.2454	1.029	1.250	12.85
#2	2.555	13.18	1.2470	1.059	1.277	12.82

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.590	.6318	12.62	-.0041	1.273	1.263
#1	2.597	.6330	12.65	-.0043	1.274	1.248
#2	2.583	.6306	12.59	-.0039	1.272	1.277

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0513	.0089	.00136	2.465	.00083	.00588
#1	.0493	.0093	.00094	2.410	.00078	.00587
#2	.0533	.0084	.00179	2.521	.00087	.00588

Int. Std.	Sc3572
Units	Cts/S
Avg	127.87
#1	127.92
#2	127.83

Method: 2009A Sample Name: K0910900-027 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2076	.0118	.0239	.00685	.00007	.1842
#1	.2079	.0136	.0150	.00740	.00011	.1832
#2	.2073	.0099	.0328	.00630	.00003	.1852

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	11.35	.0011	.0005	.0035	17.49
#1	-.0004	11.27	.0010	.0002	.0015	17.46
#2	-.0006	11.43	.0012	.0007	.0054	17.51

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0107	3.7812	.30479	.0062	-.0004	23.45
#1	-.0072	3.7336	.30444	.0086	-.0002	23.36
#2	-.0141	3.8288	.30514	.0038	-.0005	23.55

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109	.0015	14.26	-.0063	.0050	.0008
#1	.0287	.0018	14.23	-.0041	.0040	.0012
#2	-.0069	.0012	14.29	-.0086	.0059	.0004

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.283	28.88	.00656	-.0124	.00400	.09695
#1	1.281	28.42	.00693	-.0239	.00449	.09717
#2	1.285	29.34	.00618	-.0009	.00351	.09674

Int. Std.	Sc3572
Units	Cts/S
Avg	128.35
#1	127.92
#2	128.79

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 10:32 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.990	.0094	.0010	2.4846	.05127	.0015
Stddev	.001	.0070	.0058	.0142	.00017	.0000
%RSD	.0164	73.97	569.5	.57151	.33070	2.979
#1	4.989	.0144	-.0031	2.4746	.05115	.0016
#2	4.991	.0045	.0051	2.4946	.05139	.0015
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	25.66	.0017	.0000	.0004	25.21
Stddev	.0006	.24	.0016	.0014	.0001	.16
%RSD	189.4	.9401	93.07	3121.	20.25	.6453
#1	-.0008	25.49	.0006	-.0009	.0004	25.10
#2	.0001	25.84	.0029	.0010	.0003	25.33
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0120	25.68	5.071	.0010	-.0020	10.08
Stddev	.0044	.07	.022	.0013	.0010	.02
%RSD	36.30	.2741	.4343	137.0	48.63	.2194
#1	-.0151	25.63	5.055	.0000	-.0026	10.07
#2	-.0089	25.73	5.086	.0019	-.0013	10.10
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189	.0013	9.924	-.0025	.0039	.0002
Stddev	.0168	.0006	.046	.0057	.0010	.0005
%RSD	88.76	45.23	.4685	233.7	25.69	275.5
#1	.0070	.0009	9.891	-.0065	.0032	-.0002
#2	.0308	.0017	9.957	.0016	.0046	.0006
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 10:32

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.22	2.550	.00266	-.0151	.51675	.51627
Stddev	.07	.015	.00002	.0093	.00369	.00540
%RSD	.6840	.6018	.59145	61.26	.71428	1.0458
#1	10.17	2.539	.00267	-.0086	.51414	.51245
#2	10.27	2.560	.00265	-.0217	.51936	.52009
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	127.02
Stddev	.03
%RSD	.02283
#1	127.00
#2	127.04

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 10:36 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4664	2.485	2.490	.46550	.56249	.5055
Stddev	.0058	.007	.036	.00423	.00177	.0048
%RSD	1.239	.2920	1.465	.90772	.31541	.9481
#1	.4623	2.480	2.464	.46251	.56123	.5021
#2	.4705	2.490	2.516	.46848	.56374	.5089
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5019	2.569	.5008	.5012	.5157	.5186
Stddev	.0053	.006	.0054	.0041	.0027	.0076
%RSD	1.059	.2480	1.082	.8274	.5252	1.467
#1	.4981	2.564	.4970	.4983	.5138	.5240
#2	.5056	2.573	.5047	.5042	.5176	.5133
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.480	2.0902	.97808	.9969	.5033	5.093
Stddev	.025	.0005	.00769	.0100	.0056	.009
%RSD	1.022	.02462	.78589	1.001	1.108	.1708
#1	2.462	2.0898	.97264	.9898	.4994	5.100
#2	2.498	2.0906	.98351	1.004	.5073	5.087
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517	.5076	.5278	2.502	.5005	.5000
Stddev	.036	.0043	.0037	.029	.0024	.0069
%RSD	1.413	.8395	.7010	1.171	.4841	1.385
#1	2.492	.5106	.5252	2.481	.4988	.4951
#2	2.543	.5046	.5304	2.523	.5022	.5049
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 10:36

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0908	.2920	.50492	4.952	.53160	.51826
Stddev	.0056	.0006	.00170	.054	.00299	.00140
%RSD	6.148	.1886	.33594	1.096	.56192	.27069
#1	-.0868	.2924	.50372	4.914	.53371	.51727
#2	-.0947	.2916	.50612	4.991	.52949	.51925
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	128.73
Stddev	.28
%RSD	.21627
#1	128.92
#2	128.53

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 10:39 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0060	.0077	-.0003	-.00001	.00006
Stddev	.0070	.0031	.0048	.00012	.00003
%RSD	116.5	40.50	1416.	833.37	53.644
#1	-.0011	.0055	-.0037	.00007	.00008
#2	-.0110	.0099	.0031	-.00010	.00003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	-.0003	.0067	.0005	.0005
Stddev	.0002	.0005	.0002	.0006	.0010
%RSD	16.42	189.9	2.654	110.6	195.4
#1	-.0010	.0001	.0068	.0009	.0012
#2	-.0013	-.0006	.0066	.0001	-.0002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.0021	.0006	.00158	.00083
Stddev	.0010	.0015	.0083	.00014	.00000
%RSD	33.40	69.97	1320.	8.7471	.31509
#1	.0038	.0032	.0065	.00148	.00083
#2	.0023	.0011	-.0053	.00168	.00083
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0010	-.0040	.0059	.0006
Stddev	.0031	.0008	.0154	.0157	.0012
%RSD	82.46	81.88	383.9	265.7	189.5
#1	.0060	.0004	.0069	-.0052	-.0002
#2	.0016	.0016	-.0149	.0170	.0014
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/01/09 10:39

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0050	.0035	.0019	-.0008	-.0050
Stddev	.0040	.0066	.0027	.0000	.0061
%RSD	80.47	191.4	137.0	1.347	122.5
#1	.0079	.0082	.0001	-.0008	-.0093
#2	.0022	-.0012	.0038	-.0008	-.0007
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	.00118	.0049	.00027	.00017
Stddev	.0005	.00098	.0129	.00031	.00000
%RSD	14.77	83.216	266.3	113.57	1.9563
#1	-.0039	.00187	-.0043	.00005	.00017
#2	-.0032	.00049	.0140	.00050	.00016
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	125.90
Stddev	.15
%RSD	.11756
#1	125.80
#2	126.01

Method: 2009A Sample Name: K0910900-027D Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2425	-.0008	.0099	.00651	.00005	.1808
#1	.2372	-.0008	.0116	.00619	.00004	.1814
#2	.2478	-.0008	.0082	.00682	.00006	.1802

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	11.15	.0009	.0001	.0050	17.34
#1	-.0010	11.07	.0012	-.0001	.0039	17.34
#2	-.0007	11.24	.0006	.0004	.0062	17.33

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	3.7103	.30269	.0042	-.0015	23.09
#1	-.0032	3.6972	.30307	.0046	-.0016	23.02
#2	-.0040	3.7235	.30231	.0037	-.0014	23.17

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0039	.0035	13.91	-.0019	.0053	.0003
#1	-.0024	.0035	13.92	.0001	.0036	-.0002
#2	-.0054	.0035	13.90	-.0038	.0070	.0007

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238	28.05	.00836	-.0117	.00396	.09668
#1	1.244	28.04	.00851	-.0095	.00384	.09693
#2	1.233	28.06	.00822	-.0139	.00407	.09643

Int. Std.	Sc3572
Units	Cts/S
Avg	127.92
#1	127.27
#2	128.57

Method: 2009A Sample Name: K0910900-027L Operator: JC
Comment: 1/5 (181336) (120109B)
Run Time: 12/01/09 10:45 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0359	-.0058	.0085	.00118	.00003	.0362
#1	.0189	-.0108	.0181	.00085	.00000	.0361
#2	.0528	-.0009	-.0010	.00150	.00006	.0362

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	2.230	.0004	-.0003	.0000	3.643
#1	-.0005	2.232	.0021	-.0001	.0012	3.639
#2	-.0013	2.229	-.0013	-.0005	-.0012	3.646

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	.77055	.06139	-.0002	.0005	4.537
#1	.0044	.76995	.06098	-.0017	.0005	4.515
#2	-.0098	.77115	.06179	.0013	.0006	4.559

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0017	2.715	.0007	.0009	-.0009
#1	-.0035	.0014	2.712	.0004	.0013	-.0011
#2	.0054	.0021	2.719	.0009	.0006	-.0006

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2361	5.243	.00166	.0041	.00057	.01943
#1	.2497	5.217	.00159	-.0099	.00046	.01946
#2	.2225	5.269	.00172	.0180	.00067	.01939

Int. Std.	Sc3572
Units	Cts/S
Avg	127.80
#1	127.44
#2	128.16

Method: 2009A Sample Name: K0910900-027S Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.234	.4865	1.009	2.0195	.05157	1.220
#1	2.240	.4766	.9895	2.0169	.05158	1.220
#2	2.229	.4965	1.029	2.0221	.05156	1.221

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492	11.10	.2047	.5056	.2497	18.09
#1	.0488	11.04	.2046	.5058	.2458	18.10
#2	.0496	11.16	.2048	.5053	.2535	18.09

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4793	3.6783	.82370	1.019	.4976	22.45
#1	.4764	3.6744	.82229	1.013	.4948	22.38
#2	.4823	3.6822	.82512	1.025	.5003	22.52

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.011	.0533	13.77	.0011	.4989	.4939
#1	1.016	.0522	13.75	.0024	.5000	.4913
#2	1.007	.0545	13.78	-.0003	.4978	.4965

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.197	28.20	.00766	.9127	.00399	.09467
#1	1.176	28.15	.00814	.9027	.00379	.09497
#2	1.218	28.25	.00718	.9227	.00420	.09438

Int. Std.	Sc3572
Units	Cts/S
Avg	129.09
#1	128.78
#2	129.40

Method: 2009A Sample Name: K0910900-015 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0287	-.0007	-.0144	.00191	.00006	.1182
#1	.0149	-.0025	-.0158	.00228	.00007	.1179
#2	.0425	.0011	-.0131	.00155	.00005	.1185

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	43.12	.0006	.0010	.0055	.7202
#1	-.0003	42.93	.0014	.0007	.0051	.7241
#2	.0004	43.31	-.0003	.0014	.0060	.7164

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	13.02	.25074	.0116	.0026	8.814
#1	.0013	13.03	.25020	.0122	.0016	8.767
#2	-.0019	13.02	.25128	.0109	.0036	8.861

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149	.0011	21.97	-.0075	.0065	-.0006
#1	.0112	.0002	21.93	-.0068	.0069	-.0007
#2	.0186	.0020	22.00	-.0082	.0061	-.0005

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3819	31.05	.00076	-.0066	.00726	.21391
#1	.3774	30.98	.00081	-.0025	.00743	.21332
#2	.3865	31.12	.00071	-.0107	.00708	.21449

Int. Std.	Sc3572
Units	Cts/S
Avg	128.55
#1	128.60
#2	128.51

Method: 2009A Sample Name: K0910900-016 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1590	.0166	-.0116	.00604	-.00009	.2686
#1	.1625	.0108	-.0052	.00580	-.00008	.2685
#2	.1555	.0225	-.0181	.00628	-.00010	.2688

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	23.13	-.0002	.0001	.0000	20.77
#1	-.0005	23.11	.0000	.0000	.0003	20.73
#2	-.0007	23.14	-.0003	.0001	-.0003	20.82

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	19.18	.82417	.0016	-.0009	7.745
#1	-.0066	19.11	.82229	.0009	-.0016	7.754
#2	-.0008	19.24	.82605	.0023	-.0002	7.737

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.0021	28.22	-.0049	.0037	-.0005
#1	-.0007	.0014	28.25	-.0056	.0032	-.0002
#2	.0171	.0028	28.19	-.0041	.0042	-.0008

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4823	37.64	.00610	-.0188	.03991	.12563
#1	.4671	37.63	.00646	-.0091	.03991	.12551
#2	.4975	37.65	.00573	-.0285	.03990	.12574

Int. Std.	Sc3572
Units	Cts/S
Avg	128.71
#1	128.70
#2	128.71

Method: 2009A Sample Name: K0910900-024 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 10:57 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577	.0014	-.0156	.00477	.00002	.2262
#1	.0436	-.0053	-.0218	.00460	.00006	.2255
#2	.0718	.0081	-.0095	.00495	-.00002	.2270

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	19.85	.0018	.0012	.0011	8.246
#1	-.0012	19.74	.0015	.0004	.0011	8.232
#2	.0000	19.95	.0021	.0020	.0011	8.261

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	22.30	.82708	.0022	-.0021	11.22
#1	-.0011	22.21	.81809	.0031	-.0022	11.19
#2	.0074	22.39	.83607	.0013	-.0021	11.25

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147	.0017	59.80	.0030	.0067	.0005
#1	.0236	.0022	59.93	-.0015	.0073	.0008
#2	.0058	.0012	59.67	.0075	.0060	.0002

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.245	35.49	.02164	-.0154	.01349	.13871
#1	1.240	35.47	.02099	-.0204	.01367	.13909
#2	1.251	35.50	.02229	-.0104	.01331	.13832

Int. Std.	Sc3572
Units	Cts/S
Avg	128.63
#1	128.28
#2	128.98

Method: 2009A Sample Name: K0910900-028 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:00 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2448	-.0018	.0037	.00622	-.00001	.1778
#1	.2338	-.0035	.0108	.00608	-.00002	.1770
#2	.2558	.0000	-.0035	.00636	.00000	.1786

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	11.09	.0023	.0009	.0035	16.77
#1	-.0007	11.02	.0019	.0010	.0031	16.67
#2	-.0002	11.17	.0026	.0007	.0039	16.86

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0074	3.6794	.29499	.0030	.0000	22.71
#1	-.0102	3.6826	.29334	.0033	.0002	22.79
#2	-.0045	3.6762	.29664	.0027	-.0002	22.63

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123	.0029	13.58	.0021	.0053	.0001
#1	.0020	.0016	13.64	.0024	.0062	.0005
#2	.0227	.0041	13.53	.0017	.0044	-.0003

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.235	27.70	.00746	-.0247	.00377	.09332
#1	1.217	27.68	.00791	-.0295	.00390	.09329
#2	1.253	27.72	.00700	-.0200	.00364	.09335

Int. Std.	Sc3572
Units	Cts/S
Avg	129.97
#1	130.06
#2	129.87

Method: 2009A Sample Name: K0910900-029 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:03 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0772	.0063	-.0073	.00391	.00006	.4552
#1	.0898	.0018	-.0087	.00362	.00005	.4549
#2	.0645	.0108	-.0060	.00421	.00007	.4556

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	6.410	.0043	.0014	.0039	1.530
#1	-.0001	6.411	.0040	.0007	.0044	1.534
#2	-.0002	6.409	.0047	.0021	.0034	1.527

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	8.1690	.07450	.0027	-.0003	16.82
#1	.0006	8.1619	.07447	.0023	-.0007	16.78
#2	-.0034	8.1760	.07453	.0032	.0002	16.86

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	.0013	114.2	-.0029	.0062	-.0007
#1	.0216	.0014	114.1	-.0019	.0057	-.0009
#2	.0038	.0012	114.4	-.0039	.0067	-.0005

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.033	23.50	.03761	-.0148	.00503	.06880
#1	3.021	23.46	.03795	-.0173	.00464	.06875
#2	3.045	23.54	.03727	-.0123	.00542	.06884

Int. Std.	Sc3572
Units	Cts/S
Avg	128.91
#1	128.69
#2	129.14

Method: 2009A Sample Name: K0910900-030 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:06 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .1611	k .0161	k -.0327	.08212	k -.00004	5.692
#1	k .1716	k .0089	k -.0303	.08178	k -.00005	5.681
#2	k .1506	k .0233	k -.0351	.08246	k -.00003	5.703

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0025	85.94	k .0009	k .0038	k .0004	8.793
#1	k .0022	85.32	k .0000	k .0033	k .0007	8.776
#2	k .0027	86.57	k .0018	k .0042	k .0002	8.809

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0096	k 388.8	k .36925	-.0029	k -.0009	172.9
#1	k .0164	k 389.7	k .36802	-.0045	k -.0012	172.6
#2	k .0028	k 387.9	k .37047	-.0012	k -.0007	173.2

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0267	k .0030	^ *****	k -.0061	k .0027	k -.0002
#1	k .0348	k .0033	^ -----	k -.0123	k .0054	k -.0007
#2	k .0185	k .0027	^ -----	k .0002	k .0001	k .0003

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k 6.080	k 22.47	k .00661	k -.0984	.07497	1.6931
#1	k 6.053	k 22.43	k .00541	k -.1143	.07478	1.6880
#2	k 6.108	k 22.52	k .00781	k -.0824	.07516	1.6983

Int. Std.	Sc3572
Units	Cts/S
Avg	112.25
#1	112.12
#2	112.38

See Fe line switch 3C Point 12/1/09

Method: 2009A Sample Name: K0910900-030 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1543	.0161	.0130	.08212	-.00004	5.692
#1	.1648	.0089	.0155	.08178	-.00005	5.681
#2	.1438	.0233	.0105	.08246	-.00003	5.703

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	85.94	.0009	.0036	.0004	8.793
#1	.0010	85.32	-.0001	.0032	.0007	8.776
#2	.0016	86.57	.0018	.0040	.0002	8.809

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	388.8	.35782	-.0029	-.0003	172.9
#1	.0165	389.7	.35656	-.0045	-.0005	172.6
#2	.0028	387.9	.35907	-.0012	.0000	173.2

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0273	.0030	^ *****	-.0060	.0028	-.0002
#1	.0355	.0033	^ -----	-.0122	.0054	-.0007
#2	.0192	.0027	^ -----	.0003	.0001	.0003

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.075	22.47	.00661	-.0692	.07497	1.6931
#1	6.048	22.43	.00540	-.0851	.07478	1.6880
#2	6.103	22.52	.00781	-.0533	.07516	1.6983

Int. Std.	Sc3572
Units	Cts/S
Avg	112.25
#1	112.12
#2	112.38

Method: 2009A Sample Name: K0910900-033 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:09 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1677	.0054	.0033	.00757	-.00003	.3817
#1	.1487	.0161	-.0001	.00760	-.00008	.3828
#2	.1867	-.0054	.0067	.00753	.00001	.3807

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	23.68	.0010	.0010	.0040	16.69
#1	-.0004	23.58	.0012	.0016	.0037	16.62
#2	-.0002	23.79	.0008	.0005	.0043	16.75

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0092	33.15	1.1510	.0011	-.0024	18.06
#1	-.0159	33.06	1.1464	.0007	-.0027	18.07
#2	-.0026	33.24	1.1555	.0015	-.0020	18.04

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094	.0024	62.52	-.0009	.0022	.0035
#1	.0079	.0028	62.66	.0004	.0023	.0043
#2	.0109	.0020	62.38	-.0022	.0021	.0027

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6273	32.62	.00750	-.0046	.01800	.17279
#1	.6085	32.62	.00866	.0026	.01772	.17284
#2	.6462	32.62	.00634	-.0119	.01828	.17274

Int. Std.	Sc3572
Units	Cts/S
Avg	128.35
#1	128.23
#2	128.46

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 11:12 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.959	.0004	.0058	2.4828	.05142	.0031
Stddev	.066	.0070	.0184	.0250	.00031	.0000
%RSD	1.334	1636.	316.6	1.0059	.60780	.2793
#1	4.912	-.0045	-.0072	2.4651	.05120	.0031
#2	5.006	.0054	.0188	2.5004	.05164	.0031
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	25.98	.0025	.0001	.0013	25.18
Stddev	.0002	.26	.0014	.0005	.0008	.21
%RSD	35.87	1.003	56.38	757.3	59.00	.8281
#1	-.0009	25.80	.0035	-.0003	.0019	25.04
#2	-.0005	26.17	.0015	.0004	.0008	25.33
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	25.75	5.071	-.0001	-.0022	10.21
Stddev	.0013	.06	.012	.0004	.0016	.02
%RSD	47.99	.2242	.2296	328.0	73.02	.1709
#1	-.0037	25.71	5.062	-.0004	-.0011	10.23
#2	-.0018	25.79	5.079	.0002	-.0033	10.20
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0050	9.943	-.0040	.0033	.0001
Stddev	.0084	.0012	.006	.0013	.0012	.0002
%RSD	118.8	23.16	.0643	34.04	36.93	129.5
#1	.0130	.0059	9.948	-.0049	.0025	.0000
#2	.0011	.0042	9.939	-.0030	.0042	.0003
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 11:12

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.38	2.574	.00184	-.0106	.52593	.52097
Stddev	.08	.002	.00137	.0034	.00101	.00090
%RSD	.7437	.0576	74.728	31.95	.19158	.17294
#1	10.32	2.575	.00087	-.0129	.52664	.52034
#2	10.43	2.573	.00281	-.0082	.52521	.52161
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	128.33
Stddev	.37
%RSD	.28866
#1	128.60
#2	128.07

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 11:15 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4627	2.491	2.507	.46478	.55974	.5104
Stddev	.0065	.017	.024	.00290	.00159	.0042
%RSD	1.412	.6647	.9380	.62471	.28318	.8181
#1	.4580	2.479	2.491	.46272	.55862	.5075
#2	.4673	2.502	2.524	.46683	.56086	.5134
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5008	2.568	.5026	.5042	.5179	.5194
Stddev	.0034	.013	.0060	.0035	.0043	.0105
%RSD	.6852	.5155	1.189	.6980	.8212	2.013
#1	.4984	2.559	.4984	.5017	.5209	.5268
#2	.5032	2.578	.5068	.5067	.5149	.5120
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.473	2.1009	.98455	.9898	.4995	5.108
Stddev	.011	.0051	.00527	.0116	.0067	.020
%RSD	.4352	.24172	.53554	1.167	1.347	.3925
#1	2.465	2.0973	.98082	.9816	.4948	5.093
#2	2.480	2.1044	.98828	.9980	.5043	5.122
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.552	.5119	.5573	2.459	.4992	.4967
Stddev	.053	.0047	.0063	.032	.0003	.0053
%RSD	2.091	.9107	1.124	1.304	.0626	1.063
#1	2.514	.5086	.5617	2.437	.4990	.4930
#2	2.590	.5152	.5528	2.482	.4994	.5004
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 11:15

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0898	.2962	.50358	4.950	.53473	.51712
Stddev	.0033	.0019	.00174	.047	.00194	.00028
%RSD	3.641	.6288	.34473	.9433	.36301	.05396
#1	-.0874	.2975	.50481	4.917	.53610	.51731
#2	-.0921	.2948	.50235	4.983	.53336	.51692
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	129.94
Stddev	.05
%RSD	.03897
#1	129.90
#2	129.97

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 11:18 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.0126	-.0007	.00000	.00007	-.0002
Stddev	.0003	.0077	.0101	.0004	.00002	.0002
%RSD	4.579	60.56	1507.	28237.	27.910	99.67
#1	.0065	.0181	.0065	.00026	.00009	-.0003
#2	.0061	.0072	-.0078	-.00027	.00006	-.0001
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0051	.0008	.0005	.0035	.0026
Stddev	.0000	.0046	.0008	.0015	.0016	.0000
%RSD	14.20	89.66	105.7	277.6	44.23	.6421
#1	-.0001	.0019	.0013	.0016	.0024	.0026
#2	-.0002	.0083	.0002	-.0005	.0046	.0026
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	.00202	.00106	.0044	.0003	-.0003
Stddev	.0007	.00008	.00006	.0028	.0015	.0063
%RSD	54.77	4.1786	5.2980	62.73	432.6	1846.
#1	-.0018	.00208	.00102	.0064	-.0007	.0041
#2	-.0008	.00196	.00110	.0025	.0014	-.0048
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0007	.0306	-.0004	.0021	-.0007
Stddev	.0021	.0007	.0007	.0017	.0008	.0006
%RSD	94.89	100.9	2.377	371.4	39.43	85.35
#1	.0007	.0012	.0312	.0007	.0015	-.0003
#2	.0037	.0002	.0301	-.0016	.0027	-.0011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 11:18

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	-.0034	.00123	.0101	.00026	.00019
Stddev	.0037	.0039	.00069	.0082	.00042	.00001
%RSD	93.74	114.0	55.719	80.90	164.50	2.7940
#1	.0066	-.0061	.00172	.0043	-.00004	.00019
#2	.0013	-.0007	.00075	.0159	.00055	.00020
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	127.81
Stddev	.54
%RSD	.41971
#1	127.43
#2	128.19

Method: 2009A Sample Name: K0910900-034 Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130	-.0017	-.0072	.00143	-.00005	.4929
#1	.0179	.0028	.0010	.00136	-.00002	.4878
#2	.0080	-.0062	-.0154	.00150	-.00009	.4980

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	36.94	.0006	.0003	.0043	.0200
#1	-.0002	36.27	.0011	.0008	.0048	.0203
#2	-.0003	37.62	.0002	-.0001	.0039	.0198

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0047	11.42	.08241	.0041	.0010	8.562
#1	-.0052	11.39	.08174	.0042	.0010	8.556
#2	-.0042	11.46	.08309	.0040	.0011	8.568

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0010	19.16	-.0073	.0328	-.0011
#1	.0052	.0010	19.27	-.0036	.0336	-.0006
#2	-.0052	.0010	19.06	-.0109	.0320	-.0016

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2429	29.47	-.00021	.0087	.00163	.13088
#1	.2432	29.20	.00049	-.0027	.00164	.13123
#2	.2425	29.74	-.00091	.0200	.00163	.13053

Int. Std.	Sc3572
Units	Cts/S
Avg	129.37
#1	129.06
#2	129.68

Method: 2009A Sample Name: RB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	-.0063	.0096	-.00002	-.00001
#1	.0088	-.0036	.0010	.00006	-.00005
#2	-.0241	-.0090	.0181	-.00011	.00003

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	-.0004	.0075	-.0005	-.0004
#1	-.0010	-.0004	.0108	-.0002	-.0006
#2	-.0021	-.0004	.0041	-.0008	-.0002

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0024	-.0021	.0001	.00055	.00006
#1	.0029	-.0019	-.0004	.00066	.00017
#2	.0019	-.0023	.0007	.00043	-.00006

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0007	.0093	.0030	.0011
#1	.0003	.0003	-.0002	-.0037	.0014
#2	-.0005	.0011	.0188	.0096	.0008

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0140	.0033	.0020	-.0013	-.0083
#1	.0115	.0071	.0014	-.0013	-.0079
#2	.0166	-.0005	.0025	-.0014	-.0086

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.00108	.0028	.00040	-.00004
#1	.0051	.00087	-.0085	.00042	-.00004
#2	.0015	.00129	.0142	.00038	-.00004

Int. Std.	Sc3572
Units	Cts/S
Avg	127.99
#1	128.18
#2	127.80

Method: 2009A Sample Name: K0911129-MB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:32 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	.0000	-.0007	.00009	.00001
#1	-.0186	.0027	-.0024	.00024	.00004
#2	.0160	-.0027	.0010	-.00007	-.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.0001	.0039	-.0002	.0002
#1	-.0018	.0001	.0029	-.0007	-.0001
#2	-.0014	.0001	.0048	.0004	.0006

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0032	-.0011	-.0043	.00018	.00003
#1	.0038	-.0007	-.0025	.00022	-.00005
#2	.0027	-.0015	-.0061	.00013	.00011

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0000	-.0079	.0044	.0043
#1	-.0004	.0004	-.0048	.0096	.0062
#2	-.0003	-.0004	-.0110	-.0007	.0025

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0034	-.0025	.0013	-.0010	-.0142
#1	.0052	-.0041	.0024	-.0010	-.0205
#2	.0017	-.0008	.0003	-.0009	-.0079

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.00168	.0077	.00006	-.00002
#1	-.0017	.00146	.0093	-.00011	-.00002
#2	-.0027	.00190	.0060	.00024	-.00002

Int. Std.	Sc3572
Units	Cts/S
Avg	127.65
#1	127.52
#2	127.77

Method: 2009A Sample Name: K0911129-001 Operator: JC
Comment: 0.6251/50 X1/50 (181336) (120109B)
Run Time: 12/01/09 11:35 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0167	-.0014	-.0078	-.00016	-.00003
#1	-.0153	-.0054	-.0112	-.00012	-.00004
#2	-.0181	.0027	-.0044	-.00020	-.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0005	.0047	.0006	.0006
#1	.0012	-.0005	.0061	.0003	.0003
#2	-.0002	-.0004	.0034	.0009	.0010

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0044	-.0015	-.0026	.00028	.00007
#1	.0041	-.0014	-.0014	.00027	-.00010
#2	.0048	-.0016	-.0039	.00028	.00023

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0003	19.57	.0022	.0013
#1	-.0007	-.0002	19.53	.0052	.0023
#2	-.0003	-.0003	19.62	-.0007	.0004

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0794	11.36 *	.0006	-.0007	8.227 **
#1	.0787	11.35	.0015	-.0007	8.157
#2	.0800	11.38	-.0002	-.0007	8.298

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.00072	.0033	-.00027	.00000
#1	.0011	.00027	.0000	-.00024	.00002
#2	-.0008	-.00170	.0065	-.00030	-.00003

Int. Std.	Sc3572
Units	Cts/S
Avg	130.21
#1	129.97
#2	130.44

* 11.475 Sn

** 8.104 P

Method: 2009A Sample Name: K0911129-001D Operator: JC
Comment: 0.6257/50 X1/50 (181336) (120109B)
Run Time: 12/01/09 11:39 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0073	.0076	-.0017	-.00006	.00007
#1	-.0140	.0090	.0003	.00010	.00003
#2	-.0005	.0063	-.0037	-.00022	.00010

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0008	.0045	.0011	.0005
#1	.0016	-.0010	.0039	.0009	.0005
#2	.0000	-.0005	.0051	.0012	.0006

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0024	-.0011	.00023	.00015
#1	.0016	-.0026	-.0011	.00017	.00022
#2	.0013	-.0022	-.0011	.00030	.00008

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0011	19.32	-.0067	.0013
#1	.0006	.0011	19.10	-.0156	.0021
#2	.0001	.0011	19.53	.0022	.0006

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm *	ppm	ppm	ppm **
Avg	.0785	11.16	.0008	-.0007	8.106
#1	.0754	11.12	-.0002	-.0001	8.080
#2	.0816	11.21	.0018	-.0013	8.132

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0029	-.00039	.0129	.00004	-.00002
#1	-.0033	.00010	.0097	.00051	-.00005
#2	-.0024	-.00088	.0161	-.00043	.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	130.36
#1	130.28
#2	130.44

* 11.27 Sn

** ~~7.88~~ 3 12/11/09
7.984 P

Method: 2009A Sample Name: 10 ppm Sn Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102	.0049	.0041	-.00015	.00000	-.0015
#1	.0060	.0072	-.0003	-.00018	-.00002	-.0010
#2	.0143	.0027	.0085	-.00012	.00002	-.0020

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0060	.0012	.0002	.0032	-.0020
#1	.0000	.0078	.0016	-.0002	.0010	-.0020
#2	-.0006	.0041	.0008	.0005	.0054	-.0021

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.00014	.00020	.0007	.0003	-.0026
#1	.0020	.00016	.00012	.0004	.0001	-.0090
#2	-.0071	.00013	.00027	.0009	.0006	.0037

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0022	.0071	9.901	.0010	-.0010
#1	-.0037	.0021	.0084	9.824	-.0001	-.0012
#2	.0126	.0023	.0058	9.979	.0022	-.0008

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	.0518	.00108	.0137	.00032	-.00001
#1	.0212	.0536	.00093	.0114	.00089	-.00004
#2	-.0079	.0499	.00124	.0161	-.00025	.00002

Int. Std.	Sc3572
Units	Cts/S
Avg	130.65
#1	130.89
#2	130.41

$\frac{10 \text{ ppm Sn}}{9.901 \text{ Sn}} = 1.01$

Method: 2009A Sample Name: 10 ppm P Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:45 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0013	-.0031	-.00032	-.00003	-.0012
#1	-.0010	.0099	-.0024	-.00032	-.00001	-.0012
#2	.0046	-.0072	-.0037	-.00033	-.00005	-.0011

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0044	.0005	-.0001	.0019	-.0029
#1	-.0006	.0016	-.0002	-.0003	.0030	-.0029
#2	.0000	.0071	.0013	.0001	.0009	-.0029

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.00022	.00004	-.0012	.0015	.0006
#1	.0076	.00016	-.00001	-.0003	.0012	.0122
#2	.0006	.00028	.00009	-.0020	.0017	-.0110

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0036	.0032	.0151	-.0008	-.0007
#1	.0067	.0043	.0042	.0205	-.0010	-.0009
#2	.0022	.0029	.0023	.0096	-.0005	-.0006

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.15	-.0049	.00028	.0146	.00002	.00000
#1	10.15	-.0054	-.00032	.0035	-.00005	-.00001
#2	10.15	-.0044	.00089	.0257	.00009	.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	131.24
#1	131.38
#2	131.10

$\frac{10 \text{ ppm P}}{10.15 \text{ P}} = 0.985$

Method: 2009A Sample Name: RB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 11:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099	-.0090	-.0024	-.00026	.00000	-.0008
#1	.0114	-.0179	.0017	-.00040	-.00001	-.0009
#2	.0085	.0000	-.0065	-.00012	.00001	-.0007

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0029	.0001	.0008	.0029	-.0025
#1	-.0001	.0021	-.0008	.0008	.0022	-.0023
#2	-.0005	.0036	.0010	.0007	.0035	-.0028

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.00005	.00019	.0000	.0001	-.0011
#1	-.0008	.00000	.00019	.0016	-.0011	.0023
#2	.0035	.00011	.00018	-.0017	.0012	-.0046

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	.0054	.0093	.0008	.0010	-.0011
#1	.0007	.0068	.0096	.0027	.0013	-.0014
#2	-.0081	.0039	.0090	-.0010	.0008	-.0009

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0208	-.0008	.00152	.0086	.00005	.00001
#1	-.0179	.0001	.00212	.0143	-.00023	.00002
#2	-.0238	-.0017	.00092	.0029	.00033	.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	128.62
#1	128.61
#2	128.62

Method: 2009A Sample Name: K0910481-MB Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 11:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180	-.0036	.0024	-.00029	.00000	-.0008
#1	.0137	-.0009	.0038	-.00032	-.00003	-.0001
#2	.0223	-.0063	.0010	-.00026	.00002	-.0016

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0097	.0002	-.0005	.0015	-.0004
#1	-.0007	.0068	.0004	-.0015	.0037	-.0002
#2	.0000	.0126	.0000	.0006	-.0007	-.0005

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.00062	.00006	.0001	.0008	.0413
#1	-.0006	.00054	.00013	.0017	.0018	.0415
#2	-.0012	.00069	-.00002	-.0015	-.0003	.0411

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0002	.0052	.0155	.0015	.0013
#1	-.0126	.0012	.0055	.0159	.0015	.0010
#2	.0141	-.0008	.0049	.0150	.0014	.0016

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0242	.0021	.00033	.0143	.00017	.00001
#1	.0318	.0004	.00094	.0192	-.00007	-.00001
#2	.0166	.0038	-.00028	.0094	.00041	.00004

Int. Std.	Sc3572
Units	Cts/S
Avg	128.99
#1	129.28
#2	128.70

Method: 2009A Sample Name: LCSS Operator: JC
Comment: 1/2 K0910481 (181336) (120109B)
Run Time: 12/01/09 11:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.23	.4209	.4677	2.2339	.33662	.5463
#1	39.96	.4163	.4645	2.2150	.33530	.5452
#2	40.51	.4254	.4709	2.2527	.33794	.5474

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4687	51.70	.7689	1.015	1.306	86.63
#1	.4629	51.21	.7624	1.005	1.308	85.81
#2	.4745	52.19	.7755	1.025	1.305	87.45

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5198	20.87	2.7287	.3209	1.043	21.82
#1	.5175	20.80	2.7098	.3125	1.032	21.77
#2	.5222	20.94	2.7476	.3293	1.055	21.88

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.063	.4175	3.480	.7210	.9118	1.495
#1	1.042	.4179	3.469	.7178	.9077	1.475
#2	1.083	.4172	3.491	.7242	.9159	1.515

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.256	16.21	2.4158	1.161	.04769	.68848
#1	4.249	16.15	2.4104	1.157	.04703	.68642
#2	4.263	16.28	2.4211	1.165	.04834	.69054

Int. Std.	Sc3572
Units	Cts/S
Avg	133.54
#1	133.90
#2	133.18

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 11:57 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.935	.0162	-.0041	2.4893	.05111	-.0004
Stddev	.036	.0026	.0111	.0069	.00016	.0000
%RSD	.7338	15.86	269.6	.27638	.31052	8.324
#1	4.961	.0180	.0037	2.4844	.05100	-.0004
#2	4.910	.0144	-.0119	2.4941	.05122	-.0004
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	25.98	.0021	-.0003	.0014	24.96
Stddev	.0006	.05	.0004	.0010	.0002	.07
%RSD	3207.	.1824	20.53	353.6	10.88	.2786
#1	.0004	25.95	.0025	-.0010	.0015	24.91
#2	-.0004	26.02	.0018	.0004	.0013	25.01
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0102	25.81	5.013	.0008	-.0024	10.10
Stddev	.0025	.11	.011	.0002	.0006	.00
%RSD	24.74	.4112	.2265	29.25	24.18	.0205
#1	-.0120	25.73	5.005	.0010	-.0028	10.10
#2	-.0084	25.88	5.021	.0007	-.0020	10.10
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174	.0005	9.890	.0025	.0033	.0003
Stddev	.0147	.0006	.001	.0041	.0004	.0003
%RSD	84.44	119.6	.0069	162.7	12.28	101.9
#1	.0070	.0009	9.890	.0054	.0035	.0006
#2	.0278	.0001	9.889	-.0004	.0030	.0001
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 11:57

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.51	2.575	.00231	-.0077	.52325	.51016
Stddev	.04	.006	.00198	.0023	.00109	.00078
%RSD	.3851	.2384	85.925	29.27	.20899	.15263
#1	10.48	2.571	.00371	-.0093	.52402	.50961
#2	10.54	2.579	.00091	-.0061	.52247	.51071
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	129.62
Stddev	.19
%RSD	.14329
#1	129.75
#2	129.48

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 12:00 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4640	2.481	2.533	.46630	.55710	.5095
Stddev	.0236	.006	.034	.00048	.00107	.0070
%RSD	5.079	.2448	1.337	.10345	.19259	1.371
#1	.4807	2.486	2.509	.46596	.55786	.5045
#2	.4473	2.477	2.557	.46664	.55635	.5144
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5049	2.566	.5027	.5002	.5248	.5191
Stddev	.0031	.012	.0023	.0003	.0005	.0086
%RSD	.6119	.4522	.4531	.0534	.0904	1.654
#1	.5027	2.574	.5011	.5004	.5251	.5252
#2	.5071	2.558	.5043	.5001	.5244	.5131
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.476	2.1045	.98629	.9922	.4996	5.055
Stddev	.014	.0064	.00266	.0104	.0017	.005
%RSD	.5691	.30455	.26994	1.046	.3345	.1059
#1	2.466	2.0999	.98441	.9848	.4984	5.051
#2	2.486	2.1090	.98818	.9995	.5007	5.059
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.587	.5063	.5358	2.429	.4941	.4979
Stddev	.038	.0035	.0005	.023	.0026	.0003
%RSD	1.463	.6923	.0916	.9421	.5264	.0548
#1	2.561	.5088	.5361	2.413	.4959	.4977
#2	2.614	.5038	.5354	2.445	.4923	.4981
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 12:00

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0944	.2947	.50178	4.963	.53284	.50684
Stddev	.0033	.0001	.00224	.009	.00067	.00130
%RSD	3.465	.0346	.44566	.1862	.12550	.25700
#1	-.0967	.2948	.50020	4.957	.53237	.50776
#2	-.0921	.2946	.50337	4.970	.53331	.50592
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	130.99
Stddev	.42
%RSD	.31939
#1	130.69
#2	131.28

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 12:03 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	.0158	.0072	.00011	.00010
Stddev	.0146	.0083	.0077	.00009	.00002
%RSD	779.6	52.48	107.6	86.643	17.176
#1	-.0122	.0216	.0017	.00017	.00009
#2	.0085	.0099	.0126	.00004	.00011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	-.0001	.0005	.0005	.0004
Stddev	.0002	.0001	.0054	.0004	.0003
%RSD	15.94	34.90	1096.	85.68	61.49
#1	-.0012	-.0002	.0043	.0002	.0006
#2	-.0010	-.0001	-.0034	.0008	.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0037	-.0027	.00233	.00103
Stddev	.0018	.0013	.0045	.00006	.00022
%RSD	69.24	34.20	169.8	2.4839	21.715
#1	.0039	.0046	.0005	.00229	.00119
#2	.0013	.0028	-.0059	.00237	.00087
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0013	.0108	.0111	.0024
Stddev	.0010	.0004	.0026	.0147	.0034
%RSD	20.42	27.09	24.07	132.1	141.0
#1	.0058	.0011	.0126	.0007	.0048
#2	.0043	.0016	.0090	.0215	.0000
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/01/09 12:03

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0153	.0104	.0007	-.0003	-.0122
Stddev	.0059	.0003	.0004	.0003	.0023
%RSD	38.83	2.905	64.80	112.6	19.14
#1	.0195	.0102	.0004	-.0001	-.0106
#2	.0111	.0106	.0010	-.0005	-.0139
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	.00051	-.0051	.00048	.00024
Stddev	.0014	.00064	.0000	.00042	.00002
%RSD	76.85	126.64	.8652	87.307	7.4659
#1	-.0008	.00096	-.0050	.00077	.00025
#2	-.0027	.00005	-.0051	.00018	.00022
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	128.94
Stddev	.26
%RSD	.19863
#1	129.12
#2	128.76

Method: 2009A Sample Name: K0910481-004 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:07 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.89	.0268	-.0122	.05121	.00038	.0292
#1	27.90	.0254	-.0156	.05084	.00040	.0291
#2	27.88	.0281	-.0087	.05157	.00036	.0293

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	51.83	.0663	.0381	.0561	59.34
#1	.0007	51.37	.0660	.0387	.0564	59.13
#2	.0010	52.29	.0666	.0375	.0558	59.55

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	61.22	.81098	-.0002	.4512	3.173
#1	-.0040	61.14	.81081	-.0006	.4481	3.149
#2	.0034	61.29	.81116	.0002	.4543	3.196

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150	.0020	8.834	.0041	.1240	.1138
#1	.0157	.0018	8.827	.0038	.1255	.1124
#2	.0143	.0022	8.841	.0044	.1226	.1152

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.790	4.703	1.9657	-.0382	.04015	.36636
#1	1.795	4.696	1.9626	-.0417	.04007	.36621
#2	1.785	4.710	1.9688	-.0347	.04024	.36651

Int. Std.	Sc3572
Units	Cts/S
Avg	129.69
#1	129.27
#2	130.10

Method: 2009A Sample Name: K0910481-004D Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.65	.0115	-.0028	.05821	.00033	.0190
#1	25.63	.0218	-.0028	.05787	.00033	.0182
#2	25.67	.0012	-.0028	.05855	.00032	.0198

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	76.71	.0685	.0164	.0444	45.17
#1	.0001	76.39	.0687	.0169	.0448	45.05
#2	.0004	77.03	.0683	.0159	.0441	45.29

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	19.30	.63059	-.0005	.0860	3.181
#1	-.0037	19.27	.62650	-.0006	.0847	3.183
#2	-.0045	19.32	.63467	-.0004	.0873	3.179

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160	.0019	8.732	.0113	.0986	.0848
#1	.0071	.0037	8.759	.0075	.0960	.0834
#2	.0249	.0000	8.706	.0151	.1013	.0863

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.847	5.931	1.8854	-.0047	.03398	.41954
#1	1.836	5.920	1.8899	-.0047	.03418	.42018
#2	1.858	5.942	1.8810	-.0046	.03377	.41890

Int. Std.	Sc3572
Units	Cts/S
Avg	129.20
#1	129.12
#2	129.28

Method: 2009A Sample Name: K0910481-004L Operator: JC
Comment: 1/10 (181336) (120109B)
Run Time: 12/01/09 12:13 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.582	-.0024	.0012	.01011	.00013	.0042
#1	5.577	.0025	.0043	.00957	.00006	.0041
#2	5.588	-.0073	-.0019	.01064	.00021	.0042

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	10.59	.0137	.0083	.0105	11.96
#1	-.0003	10.51	.0151	.0087	.0113	12.00
#2	-.0002	10.67	.0123	.0079	.0098	11.92

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0057	12.13	.15746	-.0008	.0953	.6354
#1	-.0018	12.11	.15692	-.0012	.0946	.6316
#2	-.0096	12.14	.15800	-.0004	.0961	.6391

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128	.0020	1.706	-.0079	.0255	.0212
#1	.0031	.0012	1.712	-.0065	.0248	.0212
#2	.0224	.0028	1.700	-.0094	.0263	.0212

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3380	.9465	.39150	.0052	.00844	.07146
#1	.3291	.9492	.39070	.0125	.00833	.07161
#2	.3468	.9438	.39231	-.0021	.00855	.07132

Int. Std.	Sc3572
Units	Cts/S
Avg	129.20
#1	129.34
#2	129.05

Method: 2009A Sample Name: K0910481-004S Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:16 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.17	.2970	.5134	2.0632	.05163	.5373
#1	27.19	.2939	.5103	2.0550	.05159	.5344
#2	27.15	.3002	.5165	2.0714	.05168	.5403

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0495	40.87	.2831	.5218	.3018	47.36
#1	.0491	40.42	.2824	.5190	.3024	47.18
#2	.0498	41.32	.2837	.5246	.3013	47.54

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4815	20.22	1.1373	.5012	.5960	2.975
#1	.4821	20.07	1.1415	.4996	.5926	2.968
#2	.4809	20.36	1.1331	.5028	.5994	2.983

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5002	.0527	7.768	.0088	.5842	.5755
#1	.5113	.0518	7.755	.0096	.5833	.5698
#2	.4891	.0536	7.781	.0080	.5852	.5813

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.524	5.952	1.8664	.4393	.03770	.24772
#1	1.513	5.908	1.8702	.4489	.03788	.24751
#2	1.535	5.996	1.8627	.4297	.03752	.24792

Int. Std.	Sc3572
Units	Cts/S
Avg	130.04
#1	129.79
#2	130.30

Method: 2009A Sample Name: K0910481-001 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:19 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.24	.0112	.0035	.06100	.00033	.0282
#1	28.35	.0063	.0141	.06083	.00035	.0287
#2	28.12	.0160	-.0070	.06116	.00031	.0277

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	22.15	.1110	.0296	.0684	61.23
#1	-.0002	21.93	.1106	.0299	.0669	61.44
#2	-.0008	22.37	.1114	.0293	.0700	61.02

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	44.24	1.3092	.0025	.2502	2.608
#1	.0091	44.10	1.3109	.0046	.2499	2.604
#2	.0039	44.39	1.3074	.0003	.2504	2.612

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0042	.0007	8.327	.0080	.1205	.1153
#1	-.0079	.0007	8.375	.0048	.1197	.1142
#2	-.0006	.0007	8.278	.0113	.1213	.1163

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.881	6.532	2.4032	-.0189	.03021	.14933
#1	1.871	6.486	2.4083	-.0385	.03091	.15015
#2	1.890	6.577	2.3980	.0006	.02951	.14852

Int. Std.	Sc3572
Units	Cts/S
Avg	130.38
#1	129.63
#2	131.13

Method: 2009A Sample Name: K0910481-002 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.40	.0143	-.0013	.04371	.00051	.0201
#1	37.58	.0179	-.0013	.04390	.00052	.0209
#2	37.21	.0108	-.0014	.04353	.00051	.0193

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	17.46	.1016	.0265	.0943	74.29
#1	.0002	17.38	.1007	.0271	.0930	74.55
#2	-.0003	17.54	.1024	.0259	.0955	74.03

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	28.88	1.5116	.0004	.1423	3.433
#1	-.0014	28.91	1.5149	-.0008	.1432	3.449
#2	.0096	28.85	1.5083	.0015	.1415	3.416

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0002	9.093	.0123	.1481	.1347
#1	.0182	-.0004	9.164	.0109	.1475	.1357
#2	-.0130	.0008	9.022	.0138	.1486	.1337

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.211	7.069	3.1368	-.0212	.05095	.09181
#1	2.225	7.049	3.1481	-.0325	.05115	.09237
#2	2.196	7.090	3.1255	-.0099	.05074	.09125

Int. Std.	Sc3572
Units	Cts/S
Avg	131.88
#1	131.24
#2	132.51

Method: 2009A Sample Name: K0910481-003 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.08	.0145	-.0013	.03671	.00036	.0251
#1	28.01	.0235	.0004	.03637	.00039	.0254
#2	28.15	.0056	-.0030	.03704	.00033	.0247

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	30.59	.0834	.0173	.0364	46.98
#1	-.0006	30.40	.0818	.0174	.0351	46.82
#2	-.0006	30.77	.0850	.0171	.0376	47.14

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0172	21.20	.70814	.0012	.0786	2.869
#1	.0127	21.17	.70935	.0001	.0778	2.866
#2	.0216	21.22	.70693	.0022	.0794	2.872

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0004	8.572	.0179	.0944	.0957
#1	-.0091	.0004	8.594	.0164	.0944	.0940
#2	.0176	.0004	8.550	.0193	.0945	.0974

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.656	6.331	2.0046	-.0198	.03545	.14059
#1	1.632	6.323	2.0042	-.0230	.03499	.14051
#2	1.679	6.339	2.0050	-.0166	.03590	.14067

Int. Std.	Sc3572
Units	Cts/S
Avg	130.12
#1	130.19
#2	130.05

Method: 2009A Sample Name: K0910481-005 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.53	.0162	.0031	.04370	.00039	.0216
#1	27.58	.0117	.0178	.04355	.00035	.0224
#2	27.48	.0206	-.0115	.04385	.00042	.0209

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	38.95	.0976	.0198	.0360	48.29
#1	-.0007	38.78	.0967	.0202	.0362	48.25
#2	-.0003	39.11	.0985	.0193	.0358	48.33

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153	28.06	.74356	-.0005	.1252	2.441
#1	.0125	28.05	.74151	.0001	.1262	2.451
#2	.0182	28.08	.74560	-.0011	.1242	2.431

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0015	7.225	.0152	.0983	.0974
#1	.0088	.0040	7.245	.0163	.1011	.0963
#2	-.0016	-.0010	7.205	.0141	.0955	.0985

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.007	7.178	2.1266	-.0112	.03317	.22025
#1	1.987	7.180	2.1314	.0001	.03267	.22105
#2	2.028	7.176	2.1218	-.0224	.03367	.21944

Int. Std.	Sc3572
Units	Cts/S
Avg	129.61
#1	129.59
#2	129.63

Method: 2009A Sample Name: K0910481-006 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:32 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.13	.0146	-.0012	.07116	.00042	.0119
#1	33.19	.0132	-.0025	.07097	.00045	.0132
#2	33.08	.0160	.0002	.07136	.00039	.0106

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	26.35	.1198	.0310	.0557	64.79
#1	-.0006	26.16	.1205	.0305	.0565	64.88
#2	-.0008	26.54	.1190	.0315	.0550	64.70

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	37.00	.98952	-.0006	.1829	2.580
#1	.0042	36.95	.98305	-.0017	.1831	2.582
#2	.0051	37.04	.99599	.0005	.1827	2.578

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0038	5.266	.0084	.1339	.1058
#1	-.0181	.0025	5.268	.0072	.1340	.1060
#2	.0190	.0050	5.263	.0095	.1339	.1055

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.838	5.644	2.8172	-.0180	.03953	.12711
#1	1.854	5.632	2.8258	-.0117	.03923	.12723
#2	1.822	5.657	2.8086	-.0242	.03983	.12699

Int. Std.	Sc3572
Units	Cts/S
Avg	130.94
#1	130.65
#2	131.24

Method: 2009A Sample Name: K0910481-007 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:35 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.18	.0172	.0021	.03791	.00038	.0233
#1	27.23	.0091	-.0003	.03809	.00043	.0228
#2	27.14	.0252	.0045	.03773	.00034	.0238

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	18.82	.0849	.0208	.0468	53.42
#1	-.0008	18.69	.0850	.0203	.0474	53.39
#2	-.0002	18.94	.0848	.0214	.0463	53.45

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	24.25	.75866	-.0004	.0959	2.610
#1	.0083	24.28	.75558	-.0002	.0951	2.612
#2	.0194	24.21	.76175	-.0007	.0967	2.607

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136	.0013	8.479	.0116	.1051	.1106
#1	.0314	.0010	8.553	.0138	.1065	.1104
#2	-.0041	.0016	8.405	.0094	.1037	.1109

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.631	4.819	2.3547	-.0277	.04013	.09407
#1	1.643	4.818	2.3664	-.0286	.04037	.09448
#2	1.618	4.820	2.3429	-.0269	.03989	.09366

Int. Std.	Sc3572
Units	Cts/S
Avg	131.86
#1	131.68
#2	132.05

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 12:38 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.934	.0036	.0098	2.5161	.05123	-.0042
Stddev	.028	.0051	.0039	.0007	.00008	.0002
%RSD	.5701	143.0	39.46	.02721	.14784	4.422
#1	4.914	.0072	.0071	2.5166	.05117	-.0040
#2	4.954	.0000	.0126	2.5157	.05128	-.0043
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	26.00	.0016	-.0009	.0019	24.93
Stddev	.0001	.15	.0012	.0006	.0003	.05
%RSD	96.83	.5678	72.90	66.49	16.57	.2186
#1	.0000	25.90	.0008	-.0005	.0021	24.89
#2	-.0002	26.11	.0024	-.0013	.0017	24.96
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	25.72	5.004	.0005	-.0013	9.893
Stddev	.0139	.15	.010	.0023	.0001	.090
%RSD	1217.	.6007	.2046	492.3	4.560	.9067
#1	-.0087	25.61	4.997	.0021	-.0014	9.829
#2	.0110	25.83	5.012	-.0012	-.0013	9.956
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152	.0031	9.803	-.0019	.0017	.0004
Stddev	.0073	.0004	.059	.0018	.0017	.0003
%RSD	48.31	14.38	.6025	96.61	101.2	70.80
#1	.0204	.0034	9.761	-.0006	.0005	.0002
#2	.0100	.0028	9.845	-.0031	.0029	.0006
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 12:38

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.56	2.560	.00382	-.0169	.51226	.50467
Stddev	.03	.007	.00193	.0012	.00256	.00135
%RSD	.3017	.2573	50.443	7.076	.49967	.26689
#1	10.54	2.555	.00246	-.0177	.51045	.50372
#2	10.58	2.564	.00519	-.0160	.51407	.50563
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	128.78
Stddev	.07
%RSD	.05717
#1	128.73
#2	128.84

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 12:41 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4556	2.500	2.576	.46874	.55536	.5062
Stddev	.0217	.018	.013	.00103	.00040	.0073
%RSD	4.771	.7147	.5014	.21969	.07247	1.436
#1	.4709	2.512	2.567	.46801	.55564	.5011
#2	.4402	2.487	2.585	.46947	.55507	.5114
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5067	2.563	.5047	.5040	.5303	.5216
Stddev	.0010	.004	.0002	.0027	.0008	.0083
%RSD	.1969	.1566	.0453	.5417	.1561	1.594
#1	.5060	2.560	.5045	.5021	.5309	.5275
#2	.5075	2.566	.5049	.5059	.5297	.5157
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.475	2.1089	.98564	.9969	.5021	4.975
Stddev	.003	.0010	.00625	.0095	.0014	.039
%RSD	.1276	.04819	.63421	.9529	.2689	.7782
#1	2.477	2.1082	.98122	.9901	.5012	4.948
#2	2.473	2.1096	.99006	1.004	.5031	5.002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.564	.5060	.5285	2.439	.4890	.5028
Stddev	.015	.0034	.0047	.021	.0012	.0019
%RSD	.5979	.6713	.8887	.8447	.2484	.3811
#1	2.575	.5084	.5252	2.425	.4881	.5014
#2	2.553	.5036	.5319	2.454	.4899	.5041
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 12:41

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0855	.2931	.50237	4.946	.52657	.50179
Stddev	.0066	.0011	.00160	.038	.00574	.00243
%RSD	7.680	.3811	.31931	.7749	1.0896	.48377
#1	-.0808	.2923	.50350	4.919	.52251	.50007
#2	-.0901	.2939	.50123	4.974	.53063	.50351
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	131.23
Stddev	.23
%RSD	.17229
#1	131.07
#2	131.39

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 12:44 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0041	.0102	.00009	.00013
Stddev	.0128	.0032	.0101	.00016	.00000
%RSD	417.3	78.27	98.89	178.19	2.3709
#1	.0060	.0063	.0031	.00020	.00014
#2	-.0121	.0018	.0174	-.00002	.00013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	-.0003	.0040	-.0003	.0003
Stddev	.0004	.0001	.0009	.0002	.0001
%RSD	40.99	30.03	22.03	74.78	30.64
#1	-.0006	-.0003	.0046	-.0001	.0003
#2	-.0012	-.0004	.0034	-.0005	.0004
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.0046	.0004	.00278	.00118
Stddev	.0000	.0018	.0012	.00007	.00028
%RSD	.0617	39.29	288.5	2.4366	23.999
#1	.0032	.0058	-.0004	.00283	.00137
#2	.0032	.0033	.0013	.00274	.00098
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0001	-.0051	.0044	.0040
Stddev	.0010	.0003	.0023	.0052	.0042
%RSD	48.21	209.7	45.11	118.1	105.2
#1	.0028	-.0001	-.0034	.0007	.0010
#2	.0014	.0003	-.0067	.0081	.0070
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/01/09 12:44

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0068	.0014	.0022	-.0011	-.0003
Stddev	.0032	.0014	.0006	.0005	.0061
%RSD	46.87	100.1	28.64	48.96	1878.
#1	.0091	.0024	.0018	-.0007	.0040
#2	.0045	.0004	.0027	-.0015	-.0046
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.00177	-.0003	.00008	.00028
Stddev	.0008	.00174	.0045	.00024	.00004
%RSD	85.27	98.304	1493.	306.56	14.142
#1	-.0004	.00300	.0029	.00025	.00031
#2	-.0016	.00054	-.0035	-.00009	.00025
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	128.57
Stddev	.38
%RSD	.29623
#1	128.30
#2	128.84

Method: 2009A Sample Name: K0910481-008 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:47 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.25	.0218	.0012	.05126	.00031	.0241
#1	26.16	.0084	.0165	.05083	.00032	.0247
#2	26.34	.0352	-.0141	.05169	.00030	.0235

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	68.59	.0696	.0192	.0345	44.86
#1	-.0008	67.98	.0708	.0196	.0327	44.66
#2	-.0002	69.21	.0685	.0188	.0364	45.05

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091	22.26	.90576	-.0003	.0854	2.582
#1	.0112	22.21	.90141	.0014	.0847	2.591
#2	.0069	22.31	.91011	-.0020	.0861	2.573

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085	.0027	9.806	.0123	.0935	.0986
#1	.0026	.0029	9.875	.0097	.0937	.0972
#2	.0145	.0025	9.737	.0150	.0933	.1001

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.437	6.460	2.2240	-.0316	.03282	.38208
#1	1.421	6.426	2.2253	-.0228	.03304	.38292
#2	1.453	6.494	2.2227	-.0403	.03259	.38124

Int. Std.	Sc3572
Units	Cts/S
Avg	130.42
#1	130.36
#2	130.49

Method: 2009A Sample Name: RB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 12:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	-.0004	.0027	-.00006	-.00007	-.0020
#1	.0149	-.0018	.0038	.00013	-.00012	-.0018
#2	.0015	.0009	.0017	-.00026	-.00001	-.0022

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0060	-.0005	.0008	.0012	.0226
#1	-.0005	.0128	-.0006	.0002	.0011	.0414
#2	-.0004	-.0009	-.0004	.0015	.0013	.0038

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	.00138	.00032	-.0002	-.0004	.0023
#1	-.0017	.00221	.00053	-.0015	-.0001	.0200
#2	-.0030	.00055	.00011	.0010	-.0008	-.0154

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0104	.0039	.0020	-.0075	.0008	-.0016
#1	-.0067	.0041	.0007	-.0113	.0024	-.0010
#2	-.0141	.0037	.0032	-.0036	-.0008	-.0021

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	-.0004	.00135	.0136	.00055	.00001
#1	-.0060	.0013	.00101	.0080	.00010	.00005
#2	-.0013	-.0021	.00169	.0192	.00101	-.00002

Int. Std.	Sc3572
Units	Cts/S
Avg	129.29
#1	129.57
#2	129.00

Method: 2009A Sample Name: K0910722-MB Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	-.0099	-.0014	.00007	-.00002	-.0011
#1	.0048	-.0062	-.0092	.00016	-.00002	-.0011
#2	.0158	-.0135	.0065	-.00001	-.00003	-.0010

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0063	.0003	-.0006	.0011	.0015
#1	-.0003	.0001	-.0010	-.0014	.0013	.0020
#2	-.0007	.0126	.0016	.0003	.0008	.0009

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.00074	.00027	.0004	.0004	.0072
#1	-.0085	.00069	.00027	.0021	.0009	.0248
#2	.0057	.00080	.00027	-.0013	-.0001	-.0103

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0036	.0065	.0114	.0009	.0001
#1	.0007	.0035	.0024	.0112	.0010	-.0005
#2	.0037	.0037	.0106	.0116	.0008	.0006

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079	.0013	.00024	.0121	.00024	-.00001
#1	.0040	.0002	-.00066	.0193	.00003	-.00002
#2	.0119	.0024	.00114	.0049	.00044	.00000

Int. Std.	Sc3572
Units	Cts/S
Avg	130.38
#1	130.45
#2	130.32

Method: 2009A Sample Name: LCSS Operator: JC
Comment: 1/2 K0910722 (181336) (120109B)
Run Time: 12/01/09 12:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.55	.4753	.4353	2.1348	.31679	.4932
#1	38.55	.4748	.4264	2.1343	.31738	.4905
#2	38.56	.4757	.4442	2.1354	.31620	.4958

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4473	47.99	.7263	.9585	1.256	82.63
#1	.4457	47.82	.7265	.9605	1.260	82.44
#2	.4488	48.17	.7262	.9566	1.252	82.81

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4826	20.01	2.4532	.3044	.9895	20.28
#1	.4865	20.01	2.4595	.3040	.9889	20.34
#2	.4787	20.02	2.4469	.3049	.9901	20.21

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.001	.3955	3.272	.6617	.8536	1.386
#1	.9987	.3968	3.296	.6585	.8528	1.384
#2	1.003	.3943	3.249	.6649	.8544	1.388

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.013	13.34	2.3163	1.144	.04564	.64576
#1	3.993	13.33	2.3224	1.142	.04603	.64706
#2	4.034	13.34	2.3103	1.146	.04525	.64446

Int. Std.	Sc3572
Units	Cts/S
Avg	134.50
#1	134.14
#2	134.86

Method: 2009A Sample Name: K0910722-014 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 12:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.07	.0205	.0059	.45117	.00107	.0019
#1	16.04	.0187	.0045	.44952	.00108	.0016
#2	16.10	.0222	.0073	.45283	.00106	.0022

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	10.60	.1277	.0154	.1318	54.61
#1	.0015	10.55	.1248	.0149	.1322	54.36
#2	.0005	10.66	.1306	.0159	.1314	54.85

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2612	11.59	.62718	.0041	.0551	3.272
#1	.2573	11.59	.62390	.0037	.0541	3.265
#2	.2651	11.59	.63046	.0045	.0562	3.279

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0019	.7085	.0430	.0884	.4643
#1	.0033	.0010	.7088	.0444	.0890	.4614
#2	-.0011	.0027	.7081	.0416	.0878	.4672

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550	6.230	.90848	-.0183	.04166	.05906
#1	1.543	6.212	.90956	-.0105	.04135	.05912
#2	1.556	6.247	.90741	-.0261	.04198	.05901

Int. Std.	Sc3572
Units	Cts/S
Avg	132.72
#1	132.67
#2	132.76

Method: 2009A Sample Name: K0910722-014D Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:02 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.64	.0174	.0108	.43034	.00104	.0042
#1	14.65	.0187	.0053	.43055	.00101	.0034
#2	14.63	.0160	.0162	.43012	.00106	.0051

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	8.626	.1182	.0176	.1162	58.65
#1	.0012	8.601	.1177	.0177	.1154	58.73
#2	.0007	8.651	.1188	.0174	.1169	58.57

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1887	6.7268	.49948	.0030	.0489	1.766
#1	.1912	6.7129	.49989	.0039	.0489	1.759
#2	.1862	6.7408	.49906	.0021	.0489	1.773

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0022	.6586	.0296	.0870	.5359
#1	.0051	.0031	.6597	.0300	.0883	.5361
#2	-.0038	.0012	.6575	.0291	.0856	.5358

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.777	6.383	.95676	-.0172	.02802	.05267
#1	1.777	6.368	.96220	-.0095	.02778	.05287
#2	1.777	6.398	.95132	-.0249	.02827	.05246

Int. Std.	Sc3572
Units	Cts/S
Avg	131.01
#1	130.42
#2	131.59

Method: 2009A Sample Name: K0910722-014L Operator: JC
Comment: 1/10 (181336) (120109B)
Run Time: 12/01/09 13:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.246	-.0042	.0003	.09280	.00017	-.0004
#1	3.245	-.0074	-.0113	.09265	.00015	-.0007
#2	3.248	-.0011	.0119	.09295	.00019	-.0001

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	2.166	.0265	.0031	.0275	11.25
#1	.0004	2.161	.0270	.0030	.0257	11.23
#2	-.0001	2.172	.0259	.0032	.0293	11.27

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0447	2.3147	.12036	.0015	.0119	.6677
#1	.0401	2.3181	.12034	.0016	.0119	.6659
#2	.0492	2.3113	.12039	.0014	.0119	.6695

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.0034	.1505	.0015	.0182	.0950
#1	.0194	.0053	.1521	.0022	.0170	.0952
#2	-.0044	.0015	.1489	.0008	.0195	.0948

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3017	1.247	.18268	-.0028	.00875	.01218
#1	.2964	1.244	.18247	.0101	.00840	.01220
#2	.3071	1.249	.18290	-.0156	.00911	.01217

Int. Std.	Sc3572
Units	Cts/S
Avg	130.59
#1	130.80
#2	130.38

Method: 2009A Sample Name: K0910722-014S Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.13	.3872	.4966	2.4956	.05052	.5045
#1	16.07	.3876	.5027	2.4897	.05046	.5022
#2	16.19	.3868	.4905	2.5014	.05058	.5069

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514	7.919	.4209	.5091	.3799	47.30
#1	.0514	7.882	.4197	.5052	.3759	47.12
#2	.0514	7.957	.4220	.5130	.3838	47.47

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6648	7.7929	1.0221	.4954	.5431	1.444
#1	.6642	7.7738	1.0167	.4903	.5391	1.444
#2	.6654	7.8121	1.0274	.5005	.5470	1.443

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4691	.0531	.7345	.0288	.5492	.9198
#1	.4653	.0524	.7356	.0270	.5473	.9127
#2	.4728	.0538	.7335	.0306	.5511	.9269

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.481	8.684	.65337	.4293	.02435	.05967
#1	1.467	8.657	.65242	.4116	.02440	.05973
#2	1.496	8.711	.65431	.4470	.02429	.05962

Int. Std.	Sc3572
Units	Cts/S
Avg	130.62
#1	130.66
#2	130.57

Method: 2009A Sample Name: K0910722-001 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.70	.0110	-.0003	.27318	.00060	.0033
#1	11.76	.0146	-.0050	.27366	.00059	.0044
#2	11.65	.0074	.0045	.27270	.00062	.0022

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	8.686	.0789	.0141	.1367	32.01
#1	.0004	8.663	.0795	.0147	.1386	32.01
#2	.0012	8.710	.0782	.0134	.1348	32.00

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1679	5.4172	1.0436	.0042	.0648	1.279
#1	.1701	5.4093	1.0453	.0058	.0653	1.288
#2	.1656	5.4252	1.0419	.0026	.0643	1.270

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142	.0024	.4732	.0718	.0343	.3759
#1	.0135	.0006	.4761	.0708	.0352	.3735
#2	.0150	.0042	.4703	.0729	.0335	.3782

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.009	7.708	.52810	-.0088	.02045	.03604
#1	1.982	7.693	.53079	-.0105	.02085	.03625
#2	2.036	7.723	.52540	-.0071	.02006	.03584

Int. Std.	Sc3572
Units	Cts/S
Avg	130.74
#1	130.51
#2	130.98

Method: 2009A Sample Name: K0910722-002 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.60	.0106	.0140	.23154	.00086	.0124
#1	17.68	.0039	.0195	.23191	.00086	.0121
#2	17.52	.0174	.0085	.23116	.00087	.0128

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	7.551	.0674	.0176	.0925	39.65
#1	-.0002	7.546	.0689	.0172	.0911	39.75
#2	.0011	7.557	.0659	.0180	.0938	39.54

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1293	6.7850	.95642	.0014	.0364	1.519
#1	.1270	6.7805	.95474	.0018	.0358	1.521
#2	.1317	6.7895	.95809	.0010	.0371	1.517

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0311	.0017	.5134	.0482	.0545	.3543
#1	.0378	.0002	.5177	.0478	.0551	.3539
#2	.0244	.0031	.5092	.0486	.0538	.3547

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.968	10.47	.86531	.0081	.02995	.03355
#1	1.952	10.48	.86939	.0073	.03009	.03363
#2	1.984	10.45	.86124	.0089	.02981	.03347

Int. Std.	Sc3572
Units	Cts/S
Avg	131.66
#1	131.40
#2	131.92

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 13:17 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.886	.0094	-.0045	2.5106	.05110	-.0033
Stddev	.001	.0083	.0039	.0034	.00005	.0001
%RSD	.0097	88.03	86.13	.13607	.10076	4.205
#1	4.886	.0035	-.0018	2.5082	.05114	-.0032
#2	4.885	.0152	-.0072	2.5130	.05106	-.0034
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	25.75	.0026	-.0009	.0002	24.64
Stddev	.0004	.01	.0005	.0004	.0009	.06
%RSD	223.2	.0496	17.97	49.64	517.2	.2244
#1	-.0001	25.74	.0023	-.0012	.0008	24.68
#2	.0004	25.76	.0029	-.0006	-.0004	24.60
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0074	25.89	4.976	-.0013	-.0027	9.990
Stddev	.0065	.06	.012	.0007	.0004	.041
%RSD	88.69	.2154	.2481	50.82	15.28	.4069
#1	-.0028	25.93	4.985	-.0018	-.0024	10.02
#2	-.0120	25.85	4.967	-.0008	-.0030	9.961
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0027	9.873	-.0005	-.0002	.0002
Stddev	.0021	.0019	.038	.0009	.0002	.0004
%RSD	29.87	71.45	.3818	173.4	144.8	165.8
#1	.0055	.0013	9.899	-.0012	.0000	.0005
#2	.0085	.0040	9.846	.0001	-.0003	.0000
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 13:17

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.63	2.576	.00155	-.0091	.52197	.50539
Stddev	.01	.002	.00118	.0066	.00155	.00186
%RSD	.0881	.0712	75.815	72.85	.29652	.36887
#1	10.63	2.574	.00072	-.0044	.52306	.50671
#2	10.64	2.577	.00238	-.0138	.52087	.50407
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	130.26
Stddev	.47
%RSD	.35755
#1	129.93
#2	130.59

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 13:20 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4676	2.498	2.577	.46599	.54674	.5090
Stddev	.0288	.046	.002	.00244	.00197	.0016
%RSD	6.167	1.840	.0853	.52298	.36009	.3071
#1	.4472	2.465	2.575	.46427	.54535	.5079
#2	.4879	2.530	2.579	.46772	.54813	.5101
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5060	2.539	.5016	.5005	.5350	.5196
Stddev	.0048	.012	.0055	.0046	.0013	.0051
%RSD	.9583	.4842	1.099	.9190	.2406	.9797
#1	.5026	2.530	.4977	.4972	.5341	.5232
#2	.5094	2.547	.5055	.5037	.5359	.5160
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.424	2.1056	.97802	.9840	.4976	5.016
Stddev	.026	.0043	.00812	.0099	.0059	.015
%RSD	1.092	.20649	.83028	1.005	1.184	.2967
#1	2.405	2.1026	.97228	.9770	.4934	5.006
#2	2.443	2.1087	.98376	.9910	.5018	5.027
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.564	.5063	.5279	2.399	.4826	.4931
Stddev	.047	.0024	.0010	.035	.0017	.0008
%RSD	1.836	.4686	.1821	1.449	.3524	.1632
#1	2.531	.5079	.5272	2.374	.4814	.4925
#2	2.597	.5046	.5286	2.423	.4838	.4936
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 13:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0891	.2952	.50095	4.937	.52980	.49607
Stddev	.0070	.0006	.00204	.006	.00258	.00209
%RSD	7.836	.1876	.40638	.1300	.48648	.42066
#1	-.0842	.2956	.49951	4.941	.52798	.49459
#2	-.0941	.2948	.50239	4.932	.53163	.49755
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	132.97
Stddev	.22
%RSD	.16323
#1	133.12
#2	132.81

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 13:23 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0135	.0126	-.00005	.00015	-.0020
Stddev	.0114	.0064	.0231	.00004	.00002	.0007
%RSD	1073.	47.12	183.3	81.902	11.654	33.83
#1	-.0070	.0181	.0290	-.00002	.00014	-.0016
#2	.0091	.0090	-.0037	-.00008	.00016	-.0025
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0052	.0013	-.0002	.0012	.0052
Stddev	.0004	.0037	.0012	.0001	.0010	.0006
%RSD	189.9	70.70	88.09	23.31	87.62	12.17
#1	-.0001	.0078	.0021	-.0003	.0019	.0057
#2	.0005	.0026	.0005	-.0002	.0004	.0048
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.00293	.00133	.0054	.0003	.0149
Stddev	.0028	.00007	.00013	.0028	.0006	.0172
%RSD	102.6	2.3667	10.064	50.77	196.6	115.3
#1	.0047	.00298	.00142	.0074	-.0001	.0271
#2	.0007	.00288	.00123	.0035	.0008	.0028
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185	.0045	.0111	.0029	.0023	-.0007
Stddev	.0042	.0020	.0024	.0059	.0020	.0012
%RSD	22.64	45.00	21.37	203.9	87.41	157.4
#1	.0156	.0031	.0128	.0071	.0037	.0001
#2	.0215	.0060	.0094	-.0013	.0009	-.0016
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 13:23

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0056	-.0007	.00090	.0113	.00027	.00030
Stddev	.0005	.0004	.00279	.0340	.00045	.00001
%RSD	8.319	66.50	311.71	302.3	166.43	2.7629
#1	-.0059	-.0010	.00287	.0353	-.00005	.00031
#2	-.0053	-.0003	-.00108	-.0128	.00059	.00030
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	129.95
Stddev	.21
%RSD	.16253
#1	129.80
#2	130.10

Method: 2009A Sample Name: K0910722-003 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.84	.0314	.0134	.70934	.00173	.0119
#1	28.77	.0390	.0106	.70621	.00167	.0132
#2	28.91	.0238	.0163	.71247	.00180	.0106

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068	18.28	.2504	.0273	.7911	71.98
#1	.0070	18.05	.2483	.0276	.7961	71.30
#2	.0066	18.51	.2525	.0271	.7861	72.66

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.093	12.37	2.1455	.0008	.0804	2.490
#1	1.082	12.33	2.1369	-.0005	.0810	2.498
#2	1.105	12.42	2.1542	.0021	.0798	2.482

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135	.0068	.9503	3.064	.0875	2.576
#1	.0135	.0076	.9562	3.042	.0857	2.557
#2	.0136	.0061	.9445	3.086	.0893	2.595

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.337	9.504	1.2195	-.0389	.04114	.09630
#1	8.254	9.891	1.2194	-.0517	.04153	.09648
#2	8.419	9.116	1.2196	-.0261	.04074	.09613

Int. Std.	Sc3572
Units	Cts/S
Avg	133.08
#1	132.83
#2	133.33

Method: 2009A Sample Name: K0910722-004 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.58	.0206	.0042	.22111	.00097	.0031
#1	18.73	.0252	.0186	.22138	.00096	.0046
#2	18.43	.0161	-.0101	.22084	.00098	.0017

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	9.724	.1049	.0211	.1752	59.34
#1	.0015	9.744	.1045	.0214	.1766	59.55
#2	.0019	9.704	.1053	.0208	.1739	59.14

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3020	8.1683	1.1195	.0033	.0447	1.446
#1	.2989	8.2055	1.1222	.0046	.0463	1.465
#2	.3050	8.1310	1.1167	.0020	.0432	1.427

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170	.0017	.8088	.1927	.0731	.6231
#1	.0081	.0023	.8140	.1948	.0738	.6187
#2	.0259	.0010	.8037	.1905	.0724	.6274

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.706	6.954	1.1809	-.0082	.02895	.05762
#1	2.695	6.985	1.1928	-.0114	.02962	.05822
#2	2.718	6.923	1.1691	-.0051	.02827	.05701

Int. Std.	Sc3572
Units	Cts/S
Avg	132.39
#1	132.29
#2	132.48

Method: 2009A Sample Name: K0910722-005 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:33 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.77	.0188	.0061	.20464	.00085	.0085
#1	18.77	.0210	.0030	.20387	.00087	.0081
#2	18.76	.0165	.0093	.20541	.00084	.0088

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	9.828	.0615	.0166	.1258	76.11
#1	.0020	9.823	.0611	.0165	.1258	75.76
#2	.0013	9.833	.0619	.0167	.1258	76.46

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2531	10.97	.57034	.0020	.0484	1.814
#1	.2535	10.94	.58827	.0021	.0495	1.808
#2	.2526	11.00	.55241	.0020	.0473	1.821

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108	.0047	1.002	.0330	.0675	.9396
#1	.0079	.0054	1.013	.0357	.0671	.9365
#2	.0138	.0040	.9905	.0303	.0679	.9428

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.310	8.300	1.2092	-.0308	.02772	.04395
#1	2.286	8.250	1.2077	-.0270	.02825	.04394
#2	2.333	8.350	1.2108	-.0347	.02720	.04395

Int. Std.	Sc3572
Units	Cts/S
Avg	131.12
#1	130.94
#2	131.29

Method: 2009A Sample Name: K0910722-006 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:36 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	61.39	.0294	.0191	.83551	.00334	.0475
#1	61.31	.0245	.0329	.83383	.00340	.0473
#2	61.47	.0343	.0053	.83719	.00328	.0476

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149	33.50	.5717	.0434	.9458	147.6
#1	.0151	33.34	.5703	.0437	.9485	146.6
#2	.0147	33.66	.5732	.0432	.9430	148.5

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9571	30.03	3.385	.0018	.1519	6.908
#1	.9524	29.93	3.382	.0027	.1507	6.902
#2	.9618	30.12	3.389	.0010	.1531	6.915

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0288	.0146	4.143	.3118	.1591	2.382
#1	.0324	.0152	4.151	.3107	.1589	2.373
#2	.0251	.0140	4.135	.3130	.1593	2.390

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.66	12.37	2.0866	-.0472	.10260	.22311
#1	14.62	12.36	2.0890	-.0459	.10258	.22340
#2	14.69	12.39	2.0843	-.0485	.10263	.22282

Int. Std.	Sc3572
Units	Cts/S
Avg	134.48
#1	134.32
#2	134.63

Method: 2009A Sample Name: K0910722-007 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:39 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.54	.0229	.0068	.20476	.00083	.0156
#1	15.58	.0243	.0116	.20496	.00084	.0164
#2	15.51	.0215	.0019	.20456	.00083	.0148

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	13.56	.0998	.0183	.1644	56.81
#1	-.0002	13.56	.0992	.0177	.1661	57.05
#2	-.0001	13.57	.1003	.0188	.1627	56.57

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3181	9.964	.67409	.0016	.0619	2.801
#1	.3133	9.977	.67548	.0019	.0609	2.824
#2	.3230	9.951	.67269	.0013	.0630	2.779

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0013	1.398	.0506	.0625	1.905
#1	.0094	.0010	1.409	.0478	.0638	1.904
#2	.0035	.0016	1.387	.0535	.0613	1.906

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.446	5.449	1.3451	-.0261	.02879	.07120
#1	2.441	5.458	1.3624	-.0278	.02882	.07182
#2	2.451	5.440	1.3278	-.0245	.02876	.07058

Int. Std.	Sc3572
Units	Cts/S
Avg	131.16
#1	130.93
#2	131.38

Method: 2009A Sample Name: K0910722-008 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.49	.0270	.0121	.33378	.00088	.0342
#1	16.51	.0158	.0114	.33169	.00089	.0338
#2	16.48	.0382	.0128	.33586	.00087	.0347

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109	12.13	.1413	.0185	.1948	48.80
#1	.0110	12.00	.1402	.0182	.1932	48.72
#2	.0108	12.25	.1423	.0188	.1964	48.88

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4671	7.7503	1.0062	.0012	.0523	1.775
#1	.4605	7.7404	1.0047	.0009	.0526	1.794
#2	.4736	7.7601	1.0077	.0015	.0520	1.757

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162	.0036	1.016	.0860	.0551	.7311
#1	.0266	.0019	1.015	.0828	.0564	.7263
#2	.0059	.0054	1.018	.0892	.0538	.7359

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.424	7.980	.86306	-.0259	.02642	.07055
#1	4.396	7.952	.86703	-.0507	.02683	.07080
#2	4.453	8.008	.85910	-.0010	.02600	.07030

Int. Std.	Sc3572
Units	Cts/S
Avg	130.93
#1	130.50
#2	131.35

Method: 2009A Sample Name: K0910722-009 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:45 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.73	.0392	.0247	1.0298	.00249	.0323
#1	44.76	.0383	.0344	1.0298	.00251	.0317
#2	44.71	.0401	.0149	1.0298	.00247	.0328

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	33.40	.4321	.0390	.7786	136.1
#1	.0131	33.20	.4314	.0399	.7784	135.4
#2	.0124	33.59	.4328	.0382	.7789	136.8

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9942	21.88	5.755	.0025	.1214	4.123
#1	.9887	21.82	5.759	.0030	.1210	4.120
#2	.9998	21.94	5.751	.0020	.1218	4.127

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072	.0136	1.827	.3203	.1428	2.497
#1	.0064	.0143	1.829	.3193	.1421	2.479
#2	.0080	.0129	1.824	.3214	.1436	2.514

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.62	10.56	1.9432	-.0519	.06832	.18825
#1	21.53	10.55	1.9433	-.0482	.06851	.18887
#2	21.70	10.58	1.9431	-.0556	.06814	.18763

Int. Std.	Sc3572
Units	Cts/S
Avg	134.35
#1	134.29
#2	134.40

Method: 2009A Sample Name: K0910722-010 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.75	.0189	.0145	.72826	.00258	.0365
#1	48.61	.0185	.0114	.72586	.00255	.0355
#2	48.90	.0193	.0177	.73067	.00261	.0376

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	28.30	.4487	.0384	.7442	121.7
#1	.0122	28.12	.4474	.0389	.7460	121.1
#2	.0115	28.47	.4501	.0379	.7424	122.3

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8334	24.49	3.240	.0032	.1247	5.442
#1	.8299	24.43	3.240	.0043	.1232	5.434
#2	.8370	24.55	3.240	.0021	.1262	5.450

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0372	.0127	2.876	.2440	.1309	1.932
#1	.0483	.0129	2.874	.2403	.1316	1.923
#2	.0262	.0125	2.878	.2477	.1303	1.941

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.51	12.84	1.8443	-.0436	.08062	.17804
#1	13.47	12.86	1.8448	-.0438	.08044	.17839
#2	13.56	12.82	1.8437	-.0434	.08079	.17769

Int. Std.	Sc3572
Units	Cts/S
Avg	134.48
#1	134.34
#2	134.62

Method: 2009A Sample Name: K0910722-011 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	62.83	.0290	.0195	.83146	.00338	.0443
#1	62.91	.0165	.0218	.82860	.00336	.0463
#2	62.75	.0415	.0171	.83432	.00340	.0422

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147	34.35	.5763	.0444	.9555	149.2
#1	.0139	34.10	.5725	.0439	.9573	148.8
#2	.0155	34.61	.5801	.0449	.9536	149.5

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9439	31.07	3.470	.0056	.1530	7.256
#1	.9403	31.02	3.480	.0053	.1528	7.273
#2	.9475	31.13	3.459	.0059	.1532	7.240

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185	.0104	3.506	.2928	.1568	2.304
#1	.0311	.0102	3.531	.2868	.1574	2.286
#2	.0060	.0106	3.481	.2989	.1563	2.321

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.94	13.88	2.1766	-.0563	.10678	.22449
#1	14.81	13.88	2.1837	-.0482	.10740	.22553
#2	15.08	13.88	2.1694	-.0643	.10617	.22344

Int. Std.	Sc3572
Units	Cts/S
Avg	135.15
#1	134.69
#2	135.61

Method: 2009A Sample Name: K0910722-012 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 13:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.07	.0278	.0312	.78584	.00276	.0336
#1	50.04	.0225	.0324	.78261	.00272	.0351
#2	50.10	.0332	.0299	.78907	.00280	.0321

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236	32.68	.8096	.0389	.9406	126.3
#1	.0227	32.56	.8050	.0382	.9395	125.9
#2	.0245	32.80	.8142	.0396	.9418	126.8

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.120	24.64	3.174	.0062	.1591	5.439
#1	1.109	24.57	3.174	.0058	.1570	5.421
#2	1.132	24.72	3.175	.0066	.1613	5.457

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220	.0113	3.025	.2517	.1625	2.217
#1	.0324	.0106	3.021	.2517	.1632	2.204
#2	.0117	.0120	3.029	.2517	.1619	2.230

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.74	11.28	1.9380	-.0404	.08055	.20582
#1	13.68	11.26	1.9357	-.0321	.08127	.20548
#2	13.80	11.30	1.9402	-.0488	.07984	.20617

Int. Std.	Sc3572
Units	Cts/S
Avg	134.66
#1	134.57
#2	134.75

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 13:57 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.884	.0166	-.0018	2.5053	.05112	-.0043
Stddev	.015	.0006	.0048	.0005	.00004	.0008
%RSD	.3124	3.777	274.6	.02151	.08008	18.36
#1	4.894	.0161	.0017	2.5049	.05110	-.0048
#2	4.873	.0170	-.0052	2.5057	.05115	-.0037
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	25.80	.0022	-.0010	.0012	24.56
Stddev	.0000	.23	.0011	.0006	.0014	.08
%RSD	19.30	.8789	48.23	61.74	115.7	.3419
#1	-.0003	25.63	.0014	-.0006	.0002	24.62
#2	-.0002	25.96	.0029	-.0015	.0022	24.50
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0099	26.07	4.962	-.0001	-.0019	10.10
Stddev	.0030	.02	.006	.0000	.0007	.02
%RSD	30.36	.0614	.1245	41.94	38.06	.1815
#1	-.0078	26.08	4.958	-.0002	-.0014	10.08
#2	-.0120	26.06	4.966	-.0001	-.0024	10.11
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	.0000	9.948	-.0034	.0012	.0002
Stddev	.0021	.003	.037	.0027	.0017	.0015
%RSD	21.10	11120.	.3695	79.91	142.1	638.6
#1	.0114	-.0024	9.974	-.0053	.0024	.0013
#2	.0085	.0023	9.922	-.0015	.0000	-.0008
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 13:57

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.68	2.593	.00307	-.0152	.53018	.50648
Stddev	.01	.009	.00014	.0088	.00120	.00035
%RSD	.0750	.3667	4.4836	58.21	.22596	.06957
#1	10.68	2.587	.00316	-.0089	.52933	.50623
#2	10.69	2.600	.00297	-.0214	.53102	.50673
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	131.15
Stddev	.43
%RSD	.32799
#1	130.85
#2	131.46

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 14:00 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4664	2.515	2.610	.46581	.55189	.5117
Stddev	.0172	.036	.012	.00061	.00442	.0004
%RSD	3.690	1.442	.4481	.13118	.80089	.0750
#1	.4786	2.489	2.602	.46537	.54877	.5119
#2	.4542	2.540	2.618	.46624	.55502	.5114
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5064	2.543	.5027	.5005	.5413	.5281
Stddev	.0053	.025	.0031	.0021	.0013	.0116
%RSD	1.040	.9782	.6133	.4156	.2351	2.195
#1	.5027	2.526	.5005	.4990	.5422	.5363
#2	.5101	2.561	.5048	.5019	.5404	.5199
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.411	2.1156	.98381	.9877	.4966	5.050
Stddev	.009	.0033	.00106	.0098	.0034	.004
%RSD	.3509	.15708	.10744	.9881	.6796	.0740
#1	2.405	2.1132	.98455	.9808	.4942	5.052
#2	2.417	2.1179	.98306	.9946	.4990	5.047
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.570	.5081	.5325	2.383	.4832	.4918
Stddev	.002	.0012	.0018	.034	.0037	.0060
%RSD	.0642	.2326	.3293	1.430	.7708	1.224
#1	2.569	.5090	.5313	2.359	.4806	.4875
#2	2.572	.5073	.5337	2.407	.4858	.4960
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 14:00

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0722	.2959	.50426	4.933	.53714	.49996
Stddev	.0019	.0012	.00166	.004	.00537	.00247
%RSD	2.590	.4072	.32947	.0869	.99958	.49492
#1	-.0736	.2950	.50309	4.936	.53335	.49821
#2	-.0709	.2967	.50543	4.930	.54094	.50171
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	132.89
Stddev	.36
%RSD	.27396
#1	133.15
#2	132.64

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 14:03 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	.0023	.0027	.00049	.00021	-.0007
Stddev	.0069	.0159	.0169	.00014	.00009	.0004
%RSD	100.4	687.0	617.0	28.313	44.299	62.32
#1	.0117	.0136	.0147	.00039	.00027	-.0004
#2	.0020	-.0089	-.0092	.00058	.00014	-.0010
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0062	.0015	.0009	.0018	.0073
Stddev	.0006	.0030	.0002	.0010	.0014	.0013
%RSD	264.8	48.12	10.55	116.2	79.52	17.75
#1	.0002	.0041	.0014	.0016	.0028	.0082
#2	-.0006	.0083	.0016	.0002	.0008	.0064
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.00339	.00138	.0047	.0006	-.0111
Stddev	.0049	.00010	.00018	.0034	.0008	.0196
%RSD	236.5	2.9472	12.982	71.39	143.1	176.5
#1	-.0014	.00332	.00150	.0071	.0011	.0028
#2	.0056	.00346	.00125	.0023	.0000	-.0250
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170	.0029	.0033	-.0014	.0009	-.0001
Stddev	.0042	.0003	.0063	.0046	.0008	.0003
%RSD	24.60	9.970	191.4	339.8	82.72	195.4
#1	.0141	.0027	.0077	.0019	.0004	.0001
#2	.0200	.0031	-.0012	-.0046	.0014	-.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 14:03

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0076	.0004	.00127	.0153	.00035	.00036
Stddev	.0052	.0026	.00045	.0056	.00048	.00002
%RSD	67.83	594.0	35.576	36.61	137.49	5.9683
#1	-.0040	-.0014	.00158	.0193	.00001	.00034
#2	-.0113	.0023	.00095	.0113	.00069	.00037
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	130.55
Stddev	.26
%RSD	.19892
#1	130.37
#2	130.73

Method: 2009A Sample Name: K0910722-013 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:06 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.05	.0177	.0199	.43600	.00095	.0108
#1	16.05	.0151	.0131	.43524	.00094	.0114
#2	16.06	.0204	.0268	.43676	.00095	.0102

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	18.74	.1250	.0151	.1348	49.70
#1	.0015	18.63	.1229	.0150	.1385	49.56
#2	.0016	18.84	.1271	.0152	.1310	49.84

Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2079	9.814	8.9608	.66377	.0016	.0435
#1	.2023	9.756	8.9617	.66308	.0015	.0440
#2	.2136	9.871	8.9598	.66447	.0017	.0431

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.279	-.0059	.0055	.8054	.0343	.0920
#1	2.290	-.0104	.0068	.8084	.0365	.0929
#2	2.269	-.0015	.0041	.8023	.0322	.0911

Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4889	1.340	7.408	.90653	-.0111	.02840
#1	.4868	1.334	7.380	.91068	-.0104	.02883
#2	.4910	1.347	7.437	.90238	-.0118	.02798

Elem	Sr4077
Units	ppm
Avg	.09756
#1	.09793
#2	.09718

Int. Std.	Sc3572
Units	Cts/S
Avg	131.12
#1	130.81
#2	131.43

Method: 2009A Sample Name: K0910722-015 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:09 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.53	.0356	.0670	1.0331	.00331	.0416
#1	58.38	.0319	.0788	1.0419	.00338	.0426
#2	56.68	.0394	.0553	1.0243	.00325	.0405

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0654	28.82	1.350	.0451	1.740	133.8
#1	.0659	28.78	1.365	.0462	1.758	134.9
#2	.0649	28.86	1.336	.0440	1.722	132.7

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.875	26.34	2.4171	.0111	.2530	5.840
#1	1.894	26.58	2.4486	.0109	.2558	5.891
#2	1.857	26.10	2.3856	.0114	.2502	5.789

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0337	.0323	5.294	.5161	.2449	3.744
#1	.0360	.0331	5.387	.5162	.2493	3.761
#2	.0314	.0315	5.201	.5160	.2405	3.728

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.15	14.47	2.0407	-.0548	.08641	.27136
#1	16.22	14.60	2.0753	-.0452	.08727	.27586
#2	16.08	14.33	2.0062	-.0643	.08555	.26685

Int. Std.	Sc3572
Units	Cts/S
Avg	134.60
#1	133.68
#2	135.52

Method: 2009A Sample Name: K0910722-016 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:12 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.01	.0331	.0173	.78009	.00251	.0325
#1	47.15	.0395	.0156	.78044	.00253	.0318
#2	46.88	.0268	.0190	.77974	.00248	.0331

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	20.29	.4125	.0358	.7610	113.1
#1	.0108	20.22	.4111	.0355	.7617	113.2
#2	.0099	20.36	.4139	.0361	.7604	113.0

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7361	24.66	1.7308	.0033	.1255	6.091
#1	.7324	24.62	1.7097	.0048	.1249	6.098
#2	.7397	24.69	1.7519	.0018	.1261	6.085

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0078	4.925	.2035	.1246	1.647
#1	.0018	.0107	4.945	.2034	.1236	1.643
#2	.0092	.0050	4.906	.2036	.1256	1.651

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.114	12.27	1.8181	-.0621	.08547	.17285
#1	9.071	12.28	1.8215	-.0508	.08569	.17329
#2	9.156	12.27	1.8147	-.0734	.08524	.17241

Int. Std.	Sc3572
Units	Cts/S
Avg	135.09
#1	134.73
#2	135.44

Method: 2009A Sample Name: K0910722-017 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:15 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.31	.0388	.0622	.85108	.00267	.0278
#1	48.55	.0401	.0684	.85393	.00268	.0278
#2	48.07	.0375	.0561	.84822	.00266	.0279

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148	27.07	.6294	.0420	1.074	127.4
#1	.0146	27.01	.6332	.0419	1.081	127.6
#2	.0150	27.12	.6256	.0420	1.067	127.2

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.419	26.00	2.3819	.0027	.2171	5.774
#1	1.416	25.97	2.3973	.0026	.2170	5.800
#2	1.422	26.03	2.3665	.0028	.2171	5.749

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0325	.0107	5.168	.4368	.1371	2.535
#1	.0251	.0103	5.215	.4309	.1385	2.544
#2	.0399	.0111	5.122	.4428	.1356	2.527

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.53	9.866	1.8278	-.0597	.08341	.20908
#1	13.52	9.887	1.8386	-.0523	.08386	.21066
#2	13.53	9.845	1.8169	-.0670	.08296	.20751

Int. Std.	Sc3572
Units	Cts/S
Avg	134.65
#1	134.11
#2	135.20

Method: 2009A Sample Name: K0910722-018 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:18 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	56.69	.0258	.0238	.65754	.00309	.0428
#1	56.52	.0141	.0302	.65416	.00310	.0444
#2	56.86	.0374	.0175	.66091	.00308	.0412

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137	28.68	.5348	.0409	.8890	138.0
#1	.0138	28.50	.5347	.0411	.8888	137.3
#2	.0136	28.87	.5349	.0408	.8892	138.7

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9151	30.43	2.4756	.0032	.1458	7.237
#1	.8998	30.37	2.4713	.0026	.1446	7.240
#2	.9304	30.49	2.4799	.0037	.1469	7.234

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073	.0144	6.964	.2548	.1442	2.194
#1	-.0053	.0147	6.970	.2535	.1433	2.182
#2	.0200	.0141	6.957	.2561	.1450	2.205

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.74	11.44	1.9952	-.0538	.09971	.23547
#1	14.69	11.46	1.9949	-.0569	.10005	.23467
#2	14.79	11.43	1.9954	-.0508	.09938	.23628

Int. Std.	Sc3572
Units	Cts/S
Avg	135.64
#1	135.76
#2	135.52

Method: 2009A Sample Name: K0910722-019 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:21 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.57	.0243	.0104	.62531	.00237	.0432
#1	40.53	.0234	.0008	.62267	.00236	.0432
#2	40.61	.0252	.0199	.62795	.00238	.0433

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108	29.37	.3972	.0318	.6892	111.5
#1	.0115	29.27	.3946	.0325	.6925	111.3
#2	.0102	29.47	.3998	.0311	.6859	111.8

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7708	22.23	2.4912	.0032	.1098	5.286
#1	.7673	22.25	2.4837	.0034	.1096	5.298
#2	.7743	22.21	2.4988	.0030	.1101	5.274

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142	.0099	7.439	.2264	.1127	2.026
#1	.0283	.0102	7.465	.2215	.1126	2.011
#2	.0002	.0096	7.413	.2312	.1128	2.040

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.83	11.87	1.5986	-.0588	.06782	.21050
#1	12.82	11.87	1.5983	-.0641	.06817	.21057
#2	12.83	11.86	1.5990	-.0536	.06747	.21043

Int. Std.	Sc3572
Units	Cts/S
Avg	134.24
#1	134.51
#2	133.96

Method: 2009A Sample Name: RB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 14:24 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177	-.0040	.0096	-.00013	-.00004	-.0025
#1	.0223	-.0072	.0174	-.00020	-.00001	-.0027
#2	.0130	-.0009	.0017	-.00005	-.00006	-.0022

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0042	-.0006	.0010	.0025	.0268
#1	-.0008	.0068	-.0006	.0019	.0029	.0466
#2	-.0007	.0016	-.0006	.0000	.0021	.0070

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.00054	.00022	.0005	.0017	-.0044
#1	.0049	.00077	.00038	.0005	.0010	-.0055
#2	-.0092	.00032	.00006	.0005	.0025	-.0032

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0026	-.0014	.0020	.0013	-.0009
#1	-.0067	.0000	-.0017	.0029	.0007	-.0008
#2	.0156	.0052	-.0011	.0012	.0019	-.0010

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0033	-.00068	.0081	.00032	-.00004
#1	.0112	.0032	-.00128	.0097	.00007	-.00007
#2	-.0159	.0035	-.00008	.0065	.00057	-.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	130.55
#1	130.64
#2	130.46

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 14:27 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.887	.0085	-.0014	2.5101	.05136	-.0052
Stddev	.015	.0146	.0005	.0010	.00021	.0007
%RSD	.2990	172.7	32.41	.04032	.40464	13.18
#1	4.897	.0188	-.0011	2.5109	.05151	-.0048
#2	4.877	-.0019	-.0018	2.5094	.05122	-.0057
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	25.63	.0028	-.0008	-.0008	24.51
Stddev	.0010	.24	.0000	.0002	.0013	.00
%RSD	568.8	.9270	1.086	26.95	161.8	.0081
#1	.0009	25.46	.0028	-.0006	.0001	24.50
#2	-.0006	25.80	.0028	-.0009	-.0017	24.51
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0073	26.04	4.971	-.0021	-.0014	10.08
Stddev	.0057	.14	.024	.0014	.0008	.03
%RSD	78.39	.5562	.4756	67.73	56.31	.2547
#1	-.0113	25.94	4.988	-.0011	-.0008	10.06
#2	-.0032	26.14	4.954	-.0031	-.0019	10.10
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.0021	9.946	-.0056	.0019	.0002
Stddev	.0157	.0012	.058	.0037	.0019	.0001
%RSD	477.6	54.62	.5820	65.86	102.2	25.70
#1	-.0078	.0013	9.987	-.0030	.0005	.0002
#2	.0144	.0030	9.906	-.0082	.0033	.0002
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 14:27

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.71	2.580	.00199	-.0187	.52829	.50919
Stddev	.08	.011	.00038	.0026	.00062	.00168
%RSD	.7611	.4435	19.299	13.91	.11670	.32901
#1	10.65	2.572	.00226	-.0205	.52786	.51037
#2	10.77	2.588	.00172	-.0168	.52873	.50800
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	130.49
Stddev	.82
%RSD	.62641
#1	129.92
#2	131.07

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 14:30 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4810	2.496	2.616	.46630	.55068	.5119
Stddev	.0003	.029	.000	.00235	.00095	.0036
%RSD	.0687	1.161	.0067	.50452	.17274	.6965
#1	.4812	2.476	2.616	.46464	.55135	.5094
#2	.4807	2.516	2.616	.46796	.55001	.5144
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5066	2.539	.5027	.4984	.5463	.5271
Stddev	.0029	.018	.0022	.0001	.0005	.0094
%RSD	.5659	.7239	.4337	.0125	.0898	1.787
#1	.5046	2.526	.5043	.4984	.5459	.5337
#2	.5086	2.552	.5012	.4985	.5466	.5204
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.409	2.1132	.98674	.9908	.4965	5.048
Stddev	.016	.0009	.00024	.0059	.0011	.005
%RSD	.6480	.04109	.02426	.5998	.2289	.1024
#1	2.398	2.1125	.98657	.9866	.4973	5.045
#2	2.420	2.1138	.98691	.9950	.4957	5.052
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.561	.5067	.5367	2.366	.4840	.4899
Stddev	.048	.0029	.0025	.018	.0031	.0008
%RSD	1.871	.5673	.4656	.7606	.6398	.1696
#1	2.594	.5046	.5350	2.353	.4818	.4893
#2	2.527	.5087	.5385	2.379	.4862	.4904
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 14:30

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0732	.3015	.50332	4.922	.53622	.49931
Stddev	.0089	.0004	.00330	.043	.00075	.00053
%RSD	12.16	.1422	.65639	.8676	.13905	.10579
#1	-.0795	.3012	.50098	4.892	.53569	.49968
#2	-.0669	.3018	.50566	4.952	.53675	.49893
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	133.39
Stddev	.33
%RSD	.24636
#1	133.16
#2	133.62

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 14:33 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0122	.0010	.00046	.00025	-.0014
Stddev	.0296	.0096	.0058	.00027	.00005	.0007
%RSD	1684.	78.45	561.5	58.326	20.143	49.65
#1	-.0192	.0189	-.0031	.00027	.00029	-.0009
#2	.0227	.0054	.0051	.00065	.00022	-.0019
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0075	.0008	.0003	.0020	.0081
Stddev	.0002	.0002	.0002	.0005	.0001	.0012
%RSD	31.88	2.352	24.46	172.8	3.880	14.48
#1	.0008	.0076	.0009	-.0001	.0020	.0090
#2	.0005	.0073	.0007	.0007	.0021	.0073
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.00389	.00152	.0041	.0003	.0098
Stddev	.0100	.00022	.00014	.0023	.0009	.0083
%RSD	318.3	5.6370	9.0931	56.27	337.8	84.86
#1	-.0102	.00404	.00162	.0057	.0009	.0156
#2	.0039	.00373	.00143	.0025	-.0004	.0039
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0074	.0024	.0119	.0035	.0014	-.0013
Stddev	.0073	.0028	.0040	.0083	.0007	.0002
%RSD	98.88	116.8	33.31	238.2	48.37	17.55
#1	-.0126	.0004	.0091	.0093	.0009	-.0011
#2	-.0022	.0043	.0147	-.0024	.0019	-.0015
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 14:33

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	-.0020	-.00109	.0064	.00060	.00042
Stddev	.0019	.0002	.00082	.0181	.00036	.00003
%RSD	56.56	10.86	74.977	282.0	60.523	6.5834
#1	-.0020	-.0021	-.00051	.0192	.00085	.00044
#2	-.0046	-.0018	-.00167	-.0064	.00034	.00040
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	129.81
Stddev	.48
%RSD	.36754
#1	129.47
#2	130.15

Method: 2009A Sample Name: K0911120-MB Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:40 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0052	-.0049	.0085	-.00003	-.00011
#1	-.0082	.0027	.0126	-.00027	-.00011
#2	-.0021	-.0126	.0044	.00021	-.00011

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	-.0003	.0093	.0008	-.0001
#1	-.0008	.0002	.0098	.0003	.0001
#2	-.0026	-.0008	.0088	.0014	-.0002

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.0056	.0066	.00043	.00018
#1	.0025	.0061	.0065	.00045	.00009
#2	.0039	.0051	.0066	.00041	.00027

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0011	.0100	.0037	.0067
#1	.0001	.0010	.0101	.0052	.0079
#2	-.0008	.0012	.0099	.0022	.0056

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0095	.0011	-.0004	-.0017
#1	-.0003	.0094	.0020	.0000	-.0060
#2	.0018	.0097	.0003	-.0008	.0026

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0071	.00046	.0136	-.00019	.00002
#1	.0078	-.00037	.0079	-.00002	-.00002
#2	.0064	.00129	.0193	-.00036	.00005

Int. Std.	Sc3572
Units	Cts/S
Avg	130.11
#1	129.39
#2	130.82

Method: 2009A Sample Name: LCSS Operator: JC
Comment: 1/2 K0911120 (181336) (120109B)
Run Time: 12/01/09 14:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.30	.4790	.4622	2.1887	.33080	.5570
#1	42.17	.4777	.4584	2.1783	.33093	.5565
#2	42.43	.4804	.4660	2.1992	.33067	.5574

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4877	52.91	.7767	1.031	1.360	86.43
#1	.4827	52.59	.7709	1.027	1.357	86.09
#2	.4927	53.22	.7825	1.035	1.363	86.77

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5159	20.95	2.6370	.3416	1.071	21.45
#1	.5057	20.95	2.6248	.3381	1.066	21.44
#2	.5261	20.95	2.6492	.3450	1.076	21.45

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.077	.4037	3.481	.6611	.9067	1.488
#1	1.094	.4029	3.487	.6628	.9061	1.476
#2	1.060	.4044	3.475	.6594	.9073	1.500

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.181	13.05	2.3794	1.183	.04850	.71483
#1	4.171	13.05	2.3789	1.171	.04859	.71531
#2	4.190	13.05	2.3798	1.196	.04841	.71435

Int. Std.	Sc3572
Units	Cts/S
Avg	134.49
#1	134.51
#2	134.48

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120
Star Lims Run No.: 101648
Method : EPA 3050B
Analysis for : ICP ICP-MS GFAA Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
K0911120-MB			X		100	10%HNO3 5%HCl
-LCSS	1.02					
-019	1.21					
-19D	1.21					
-19S	1.20					
-20	1.27					
-21	1.25					
-22	1.45					

MH 11/24/09

Balance I.D.: 26 **Date Balance Checked** 11/24/09
Lot # Acids Used: HNO3 419024 **HCl** 2009280c1 **H_2O_2** 4919937 **HF** _____
Hot Block Temp: 95°c
LCSS (circle appropriate) **ERA CLP Soil Lot # D065-540** **Other:** _____

GFAA LCSW = GFLCSW, MET1-75-R, _____ mL
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL
QCP CICV-2, MET1-77-M, _____ mL
QCP CICV-3, MET1-77-L, _____ mL
SS6, MET1-79-O, _____ mL

Time Digestion Started: 9:37am
Initial Reflux Time: _____ min.
Secondary Reflux Time: _____ min.
HCL Reflux Time (if needed): _____ min.

SPIKE INFO
SS1-MET1-79-M, _____ mls added SS4-MET1-76-B 0.50 mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, _____ mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-79-O, _____ mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: _____
Comments: _____

Analyst [signature] **Date** 11/24/09
Reviewer [signature] **Date** 11/30/09

metdig_3050B.xls

METALS SPIKE FORM

Service Request # K0911120

Q.C. Sample # 19

Circle type of digest: GFAA ICP (FAA) ICP-MS Other:_____ Initials / Date: MH / 11/24/09

Circle type of sample: (Soil) Water Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-		Expires:05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		Expires:4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4	0.50	
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-		Expires:05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-79-O	HNO3	25	500ml	-		Expires:7/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		Expires:3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-75-R)	HNO3	10.0	1000ml	-		Expires: 12/01/09
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		Expires:10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires:1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Method: 2009A Sample Name: K0911120-002 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.67	.0261	.0734	.20245	.00139	.0288
#1	23.72	.0324	.0805	.20240	.00140	.0299
#2	23.63	.0198	.0662	.20250	.00137	.0277

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	6.994	.2964	.0206	.6418	59.89
#1	.0030	6.971	.2952	.0211	.6413	59.90
#2	.0024	7.017	.2976	.0201	.6423	59.88

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3876	13.85	.66174	.0042	.0879	4.747
#1	.3878	13.78	.66082	.0036	.0879	4.763
#2	.3873	13.91	.66265	.0047	.0879	4.730

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0063	11.73	.1721	.0614	.7800
#1	.0171	.0078	11.78	.1717	.0618	.7777
#2	.0037	.0047	11.68	.1726	.0611	.7823

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.881	8.709	1.0094	-.0203	.05419	.07152
#1	1.870	8.689	1.0076	-.0274	.05424	.07163
#2	1.892	8.729	1.0113	-.0132	.05414	.07140

Int. Std.	Sc3572
Units	Cts/S
Avg	134.79
#1	134.49
#2	135.10

Method: 2009A Sample Name: K0911120-002D Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:49 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.47	.0188	.0623	.20909	.00138	.0271
#1	24.46	.0260	.0650	.20825	.00140	.0278
#2	24.48	.0116	.0596	.20994	.00136	.0265

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	6.990	.3073	.0210	.5887	60.51
#1	.0027	6.959	.3046	.0216	.5884	60.39
#2	.0036	7.021	.3101	.0204	.5889	60.63

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3949	14.24	.65515	.0030	.0825	4.731
#1	.3989	14.22	.65513	.0028	.0805	4.740
#2	.3909	14.26	.65517	.0031	.0846	4.722

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134	.0057	11.52	.1713	.0609	.7818
#1	.0008	.0057	11.59	.1662	.0602	.7820
#2	.0260	.0057	11.45	.1763	.0617	.7816

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.961	8.516	1.0460	-.0073	.05521	.07302
#1	1.975	8.500	1.0514	-.0151	.05559	.07320
#2	1.948	8.533	1.0406	.0006	.05483	.07283

Int. Std.	Sc3572
Units	Cts/S
Avg	134.05
#1	133.81
#2	134.28

Method: 2009A Sample Name: K0911120-002L Operator: JC
Comment: 1/10 (181336) (120109B)
Run Time: 12/01/09 14:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.395	-.0009	.0129	.03781	.00020	.0039
#1	4.406	.0067	.0105	.03789	.00022	.0042
#2	4.385	-.0086	.0153	.03773	.00018	.0035

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	1.279	.0561	.0040	.1181	11.00
#1	.0006	1.280	.0573	.0031	.1178	11.00
#2	.0001	1.277	.0549	.0049	.1184	11.01

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0552	2.4849	.11644	.0001	.0151	.8670
#1	.0621	2.4842	.11620	-.0003	.0155	.8657
#2	.0483	2.4856	.11669	.0005	.0148	.8682

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060	.0042	2.121	.0227	.0113	.1476
#1	.0104	.0063	2.118	.0272	.0106	.1477
#2	.0016	.0022	2.125	.0182	.0119	.1476

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3329	1.605	.18337	-.0022	.00998	.01326
#1	.3420	1.602	.18314	-.0148	.00960	.01326
#2	.3238	1.607	.18359	.0104	.01036	.01325

Int. Std.	Sc3572
Units	Cts/S
Avg	132.90
#1	132.72
#2	133.08

Method: 2009A Sample Name: K0911120-002S Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:55 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.68	.3223	.5630	2.1858	.05116	.5009
#1	26.64	.3124	.5677	2.1824	.05127	.5002
#2	26.72	.3322	.5583	2.1891	.05105	.5016

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0521	10.26	.5386	.5110	.8570	57.79
#1	.0525	10.27	.5376	.5087	.8627	57.58
#2	.0517	10.24	.5397	.5133	.8513	58.01

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8566	13.99	1.1130	.4582	.5688	4.723
#1	.8521	14.07	1.1042	.4564	.5682	4.738
#2	.8612	13.92	1.1218	.4601	.5694	4.708

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5077	.0521	11.70	.1727	.5360	1.226
#1	.5106	.0528	11.76	.1738	.5387	1.221
#2	.5047	.0515	11.65	.1717	.5333	1.232

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.813	8.239	3.5499	.4026	.05568	.09229
#1	1.820	8.226	3.5551	.4049	.05568	.09266
#2	1.806	8.251	3.5447	.4002	.05568	.09192

Int. Std.	Sc3572
Units	Cts/S
Avg	134.13
#1	134.12
#2	134.15

Method: 2009A Sample Name: K0911120-001 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 14:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.93	.0369	.0344	.41646	.00304	.0876
#1	52.25	.0410	.0430	.41771	.00309	.0882
#2	51.61	.0329	.0259	.41522	.00300	.0871

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111	30.16	.5480	.0440	.7980	164.4
#1	.0117	30.10	.5488	.0438	.8004	164.7
#2	.0105	30.22	.5473	.0441	.7955	164.0

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8532	34.02	1.7382	.0088	.1590	9.118
#1	.8557	34.06	1.7570	.0101	.1603	9.204
#2	.8508	33.97	1.7194	.0074	.1577	9.032

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204	.0121	31.17	.1982	.1704	2.175
#1	.0263	.0141	31.56	.2003	.1727	2.174
#2	.0144	.0102	30.78	.1962	.1681	2.175

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.848	11.92	2.0698	-.0518	.10037	.25750
#1	7.885	11.94	2.0936	-.0452	.10176	.26044
#2	7.811	11.91	2.0461	-.0585	.09897	.25456

Int. Std.	Sc3572
Units	Cts/S
Avg	136.15
#1	135.77
#2	136.54

Method: 2009A Sample Name: K0911120-003 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:01 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.43	.0355	.0143	.40543	.00169	.0461
#1	28.48	.0333	.0228	.40459	.00167	.0443
#2	28.38	.0378	.0058	.40628	.00171	.0479

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084	20.97	.3018	.0312	.5288	80.03
#1	.0084	20.86	.3002	.0315	.5269	79.81
#2	.0084	21.09	.3033	.0308	.5307	80.24

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.133	18.12	1.0580	.0063	.0946	4.248
#1	1.122	18.17	1.0639	.0048	.0948	4.262
#2	1.145	18.07	1.0520	.0077	.0944	4.234

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193	.0050	10.44	.1706	.0968	1.494
#1	.0289	.0046	10.50	.1676	.0965	1.484
#2	.0097	.0054	10.39	.1735	.0972	1.504

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.715	7.876	1.5156	-.0376	.04828	.16642
#1	4.715	7.847	1.5164	-.0392	.04861	.16661
#2	4.714	7.906	1.5148	-.0360	.04795	.16622

Int. Std.	Sc3572
Units	Cts/S
Avg	134.59
#1	134.58
#2	134.61

Method: 2009A Sample Name: K0911120-004 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:04 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.57	.0243	.0262	.45282	.00171	.0489
#1	30.56	.0288	.0323	.44869	.00171	.0496
#2	30.57	.0198	.0202	.45696	.00171	.0482

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	20.85	.2995	.0307	.5179	83.90
#1	.0079	20.59	.2962	.0296	.5173	83.45
#2	.0085	21.12	.3028	.0318	.5185	84.34

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9740	18.91	1.1220	.0050	.0991	4.391
#1	.9773	18.82	1.1152	.0059	.0984	4.428
#2	.9707	19.00	1.1288	.0041	.0997	4.354

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174	.0080	10.80	.1648	.0995	1.725
#1	.0292	.0078	10.85	.1619	.1002	1.701
#2	.0056	.0082	10.75	.1677	.0988	1.748

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.975	8.602	1.6124	-.0391	.05053	.16798
#1	4.934	8.574	1.6163	-.0361	.05076	.16854
#2	5.016	8.630	1.6084	-.0422	.05031	.16742

Int. Std.	Sc3572
Units	Cts/S
Avg	133.48
#1	133.42
#2	133.55

Method: 2009A Sample Name: K0911120-005 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:07 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.94	.0213	.0341	.39548	.00306	.0793
#1	53.72	.0154	.0310	.39932	.00310	.0811
#2	52.16	.0272	.0372	.39165	.00301	.0775

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099	22.58	.4818	.0399	.6406	128.0
#1	.0096	22.68	.4883	.0404	.6470	129.7
#2	.0101	22.48	.4753	.0395	.6342	126.2

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6688	35.24	1.8754	.0018	.1459	9.969
#1	.6767	35.63	1.8939	.0014	.1476	10.08
#2	.6610	34.85	1.8569	.0023	.1441	9.854

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0105	30.97	.1784	.1370	1.667
#1	.0075	.0092	31.44	.1798	.1397	1.679
#2	-.0002	.0117	30.50	.1769	.1343	1.654

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.804	10.62	1.8802	-.0540	.10623	.21371
#1	9.908	10.72	1.9040	-.0624	.10817	.21660
#2	9.700	10.53	1.8564	-.0456	.10428	.21082

Int. Std.	Sc3572
Units	Cts/S
Avg	135.96
#1	135.62
#2	136.30

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 15:10 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.898	.0045	-.0116	2.5138	.05103	-.0059
Stddev	.036	.0013	.0150	.0041	.00003	.0007
%RSD	.7338	28.55	128.6	.16214	.06793	12.44
#1	4.923	.0053	-.0222	2.5109	.05101	-.0064
#2	4.872	.0036	-.0011	2.5166	.05106	-.0054
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	25.80	.0025	.0000	-.0011	24.60
Stddev	.0010	.21	.0002	.0008	.0009	.04
%RSD	277.8	.8092	6.389	2858.	84.95	.1831
#1	-.0003	25.65	.0027	.0006	-.0018	24.57
#2	.0011	25.95	.0024	-.0005	-.0004	24.63
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	26.06	4.972	-.0008	-.0017	10.08
Stddev	.0057	.14	.002	.0002	.0004	.05
%RSD	985.1	.5206	.0315	23.45	25.11	.4533
#1	-.0046	25.97	4.971	-.0007	-.0019	10.05
#2	.0034	26.16	4.973	-.0009	-.0014	10.11
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196	.0007	9.854	-.0053	.0016	.0005
Stddev	.0052	.0012	.002	.0056	.0015	.0002
%RSD	26.75	167.9	.0208	105.7	94.50	33.49
#1	.0159	-.0001	9.856	-.0013	.0005	.0004
#2	.0233	.0015	9.853	-.0093	.0027	.0006
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 15:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.70	2.586	.00209	-.0129	.52489	.50612
Stddev	.04	.002	.00071	.0010	.00344	.00160
%RSD	.3552	.0713	34.033	7.793	.65458	.31665
#1	10.68	2.587	.00260	-.0122	.52246	.50499
#2	10.73	2.585	.00159	-.0136	.52732	.50725
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	130.95
Stddev	.29
%RSD	.22013
#1	130.74
#2	131.15

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 15:13 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4805	2.530	2.591	.46741	.55076	.5085
Stddev	.0026	.013	.002	.00180	.00107	.0031
%RSD	.5498	.5205	.0908	.38553	.19455	.6150
#1	.4823	2.520	2.590	.46869	.55152	.5063
#2	.4786	2.539	2.593	.46614	.55001	.5107
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5077	2.536	.5029	.5013	.5433	.5142
Stddev	.0003	.019	.0033	.0005	.0047	.0099
%RSD	.0687	.7396	.6641	.1070	.8667	1.931
#1	.5080	2.523	.5053	.5017	.5466	.5212
#2	.5075	2.549	.5006	.5010	.5399	.5072
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.436	2.1040	.98387	.9863	.4980	5.045
Stddev	.023	.0016	.00920	.0020	.0016	.006
%RSD	.9447	.07551	.93537	.1996	.3183	.1244
#1	2.452	2.1029	.99038	.9850	.4992	5.049
#2	2.420	2.1052	.97736	.9877	.4969	5.040
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.550	.5103	.5433	2.382	.4817	.4957
Stddev	.009	.0019	.0042	.002	.0036	.0019
%RSD	.3448	.3706	.7755	.0755	.7497	.3778
#1	2.544	.5090	.5462	2.384	.4842	.4943
#2	2.557	.5117	.5403	2.381	.4791	.4970
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 15:13

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0759	.2972	.50687	4.908	.53525	.49880
Stddev	.0154	.0006	.00038	.019	.00190	.00229
%RSD	20.36	.1997	.07480	.3953	.35429	.46002
#1	-.0868	.2976	.50713	4.921	.53659	.50043
#2	-.0650	.2968	.50660	4.894	.53391	.49718
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	133.04
Stddev	.67
%RSD	.50477
#1	132.57
#2	133.52

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 15:16 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	-.0026	.0055	-.00016	.00005
Stddev	.0051	.0077	.0024	.00039	.00007
%RSD	141.3	291.9	43.95	248.83	151.40
#1	-.0072	.0028	.0071	.00012	.00010
#2	.0000	-.0080	.0038	-.00043	.00000
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	-.0005	.0050	-.0007	.0006
Stddev	.0009	.0004	.0009	.0016	.0002
%RSD	32.18	89.01	17.61	226.4	25.91
#1	-.0021	-.0008	.0044	-.0019	.0008
#2	-.0033	-.0002	.0056	.0004	.0005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.0027	.0024	.00010	.00014
Stddev	.0003	.0009	.0013	.00006	.00001
%RSD	11.28	32.31	55.77	56.733	6.7058
#1	.0025	.0033	.0015	.00014	.00015
#2	.0030	.0021	.0034	.00006	.00013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0004	.0037	-.0059	.0037
Stddev	.0020	.0016	.0166	.0032	.0012
%RSD	54.75	452.8	449.9	53.21	31.33
#1	.0050	-.0008	.0154	-.0037	.0045
#2	.0022	.0015	-.0080	-.0082	.0029
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/01/09 15:16

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0058	.0035	.0000	-.0008	-.0030
Stddev	.0021	.0050	.0023	.0004	.0023
%RSD	37.26	143.4	64910.	47.58	78.92
#1	-.0073	.0070	.0017	-.0010	-.0046
#2	-.0042	.0000	-.0017	-.0005	-.0013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.00045	-.0017	.00046	.00002
Stddev	.0002	.00120	.0274	.00022	.00000
%RSD	14.49	263.25	1590.	47.461	9.5510
#1	-.0017	.00130	.0177	.00030	.00002
#2	-.0014	-.00039	-.0211	.00061	.00002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	129.68
Stddev	.47
%RSD	.36403
#1	130.02
#2	129.35

Method: 2009A Sample Name: K0911120-006 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:19 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.00	.0256	.0205	.42370	.00250	.0665
#1	43.97	.0252	.0337	.42181	.00256	.0682
#2	44.03	.0260	.0072	.42558	.00245	.0648

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105	21.70	.4044	.0343	.6365	111.8
#1	.0105	21.47	.4020	.0337	.6349	111.5
#2	.0105	21.92	.4068	.0349	.6381	112.1

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8030	29.83	1.7091	.0051	.1197	7.584
#1	.8010	29.95	1.6808	.0055	.1176	7.572
#2	.8049	29.71	1.7373	.0046	.1218	7.595

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0350	.0117	27.22	.1900	.1217	1.818
#1	.0387	.0130	27.20	.1856	.1200	1.802
#2	.0313	.0103	27.24	.1944	.1234	1.834

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.860	7.880	1.8151	-.0458	.08292	.20655
#1	9.760	7.868	1.8198	-.0568	.08237	.20662
#2	9.959	7.892	1.8104	-.0349	.08346	.20648

Int. Std.	Sc3572
Units	Cts/S
Avg	134.94
#1	134.78
#2	135.10

Method: 2009A Sample Name: K0911120-007 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.52	.0188	.0270	.37385	.00119	.0003
#1	21.53	.0170	.0141	.37386	.00118	.0016
#2	21.52	.0206	.0399	.37385	.00120	-.0011

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074	25.02	.3115	.0195	.4367	65.16
#1	.0073	24.94	.3098	.0196	.4367	65.21
#2	.0075	25.11	.3131	.0195	.4367	65.11

Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7558	9.938	8.9623	.80843	.0044	.0891
#1	.7524	9.986	8.9762	.80816	.0035	.0889
#2	.7592	9.890	8.9484	.80869	.0054	.0894

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.495	.0019	.0044	1.616	.1034	.1253
#1	2.505	.0026	.0045	1.615	.1023	.1263
#2	2.485	.0012	.0043	1.617	.1045	.1243

Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.018	3.981	4.394	1.3322	-.0293	.03121
#1	1.009	3.965	4.393	1.3375	-.0286	.03129
#2	1.028	3.997	4.395	1.3270	-.0300	.03113

Elem	Sr4077
Units	ppm
Avg	.16630
#1	.16615
#2	.16645

Int. Std.	Sc3572
Units	Cts/S
Avg	133.78
#1	133.65
#2	133.91

Method: 2009A Sample Name: K0911120-008 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:25 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.81	.0248	.0135	.28893	.00191	.0101
#1	36.96	.0217	.0094	.28866	.00195	.0105
#2	36.67	.0279	.0175	.28920	.00188	.0096

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	16.92	.2933	.0250	.4512	95.23
#1	.0042	16.89	.2952	.0242	.4470	95.74
#2	.0046	16.95	.2914	.0258	.4554	94.72

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5700	23.30	1.1722	.0029	.1023	8.928
#1	.5732	23.26	1.1800	.0047	.1032	8.917
#2	.5667	23.35	1.1644	.0012	.1014	8.940

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078	.0033	7.674	.1301	.1104	.9977
#1	.0138	.0017	7.686	.1292	.1098	.9965
#2	.0019	.0048	7.663	.1311	.1110	.9988

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.676	6.620	1.7352	-.0332	.07601	.17062
#1	6.671	6.602	1.7418	-.0335	.07609	.17101
#2	6.681	6.638	1.7285	-.0330	.07592	.17024

Int. Std.	Sc3572
Units	Cts/S
Avg	134.76
#1	134.21
#2	135.32

Method: 2009A Sample Name: K0911120-009 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:28 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.13	.0209	.0118	.42299	.00270	.0631
#1	49.36	.0105	.0231	.42357	.00274	.0663
#2	48.89	.0312	.0005	.42240	.00267	.0599

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123	21.31	.4359	.0392	.7620	117.2
#1	.0123	21.36	.4377	.0396	.7672	117.6
#2	.0122	21.27	.4340	.0388	.7568	116.9

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8009	30.28	1.3512	.0056	.1296	8.160
#1	.8095	30.44	1.3531	.0062	.1298	8.186
#2	.7922	30.11	1.3493	.0051	.1294	8.134

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265	.0146	24.98	.2255	.1357	2.024
#1	.0243	.0160	25.08	.2211	.1380	2.024
#2	.0287	.0131	24.87	.2299	.1335	2.024

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.462	10.89	2.0102	-.0562	.09107	.19032
#1	5.483	10.95	2.0187	-.0501	.09139	.19109
#2	5.441	10.83	2.0017	-.0622	.09074	.18954

Int. Std.	Sc3572
Units	Cts/S
Avg	136.23
#1	136.11
#2	136.34

Method: 2009A Sample Name: K0911120-010 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.33	.0358	.0462	.46212	.00228	.0159
#1	35.04	.0252	.0436	.45669	.00224	.0165
#2	35.62	.0464	.0488	.46755	.00231	.0153

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0341	106.4	1.531	.0297	2.043	107.3
#1	.0342	105.5	1.517	.0288	2.037	106.0
#2	.0341	107.2	1.546	.0305	2.049	108.6

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8917	50.00	1.3176	.0090	.1763	5.678
#1	.8690	49.79	1.3068	.0111	.1737	5.673
#2	.9144	50.21	1.3284	.0069	.1788	5.684

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265	.0221	21.32	.1532	.1476	3.580
#1	.0250	.0208	21.16	.1462	.1451	3.530
#2	.0281	.0233	21.47	.1601	.1501	3.629

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.649	8.635	1.3312	-.0475	.05847	.62712
#1	7.601	8.578	1.3231	-.0528	.05807	.62213
#2	7.698	8.691	1.3394	-.0422	.05887	.63210

Int. Std.	Sc3572
Units	Cts/S
Avg	131.29
#1	131.93
#2	130.66

Method: 2009A Sample Name: K0911120-011 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.07	.0434	.0858	.80324	.00253	.0356
#1	45.48	.0465	.0954	.80876	.00254	.0363
#2	44.67	.0403	.0761	.79771	.00252	.0349

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116	21.11	.5183	.0356	1.318	110.9
#1	.0122	21.14	.5218	.0359	1.337	111.5
#2	.0111	21.08	.5147	.0352	1.299	110.4

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.321	27.16	1.4479	.0037	.2130	7.067
#1	1.328	27.28	1.4623	.0028	.2134	7.167
#2	1.314	27.05	1.4336	.0045	.2125	6.966

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0305	.0178	17.77	.3713	.1267	2.386
#1	.0387	.0196	18.11	.3683	.1281	2.394
#2	.0223	.0160	17.43	.3742	.1253	2.378

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.452	7.353	1.8138	-.0435	.08117	.20863
#1	7.499	7.388	1.8400	-.0276	.08177	.21147
#2	7.405	7.319	1.7876	-.0595	.08058	.20579

Int. Std.	Sc3572
Units	Cts/S
Avg	135.30
#1	134.80
#2	135.81

Method: 2009A Sample Name: K0911120-012 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:37 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.08	.0880	.0890	.70562	.00369	.0325
#1	66.00	.0942	.0879	.70346	.00377	.0313
#2	66.17	.0817	.0900	.70777	.00361	.0336

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137	27.12	.7110	.0527	1.270	168.5
#1	.0128	27.04	.7084	.0529	1.278	168.3
#2	.0146	27.20	.7135	.0526	1.262	168.8

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.586	34.93	2.4399	.0089	.2196	9.709
#1	3.567	34.97	2.4307	.0072	.2181	9.781
#2	3.605	34.89	2.4491	.0105	.2212	9.638

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185	.0178	12.19	.2942	.1686	4.371
#1	.0252	.0164	12.25	.2944	.1706	4.349
#2	.0119	.0191	12.12	.2940	.1666	4.394

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.33	8.193	2.2612	-.0658	.12143	.29847
#1	15.36	8.211	2.2654	-.0608	.12223	.29900
#2	15.30	8.176	2.2569	-.0708	.12064	.29793

Int. Std.	Sc3572
Units	Cts/S
Avg	135.91
#1	136.42
#2	135.40

Method: 2009A Sample Name: K0911120-013 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:40 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.45	.0288	.0102	.55900	.00221	.0099
#1	42.88	.0324	.0150	.56301	.00222	.0106
#2	42.03	.0252	.0055	.55499	.00221	.0093

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108	22.37	.3942	.0326	.6808	102.9
#1	.0109	22.42	.3951	.0332	.6904	102.6
#2	.0108	22.32	.3932	.0320	.6712	103.1

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7271	20.79	2.6268	.0023	.1102	4.915
#1	.7303	21.00	2.6513	.0027	.1100	4.966
#2	.7238	20.58	2.6023	.0018	.1103	4.864

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0299	.0100	2.690	.2138	.1141	1.787
#1	.0247	.0080	2.722	.2196	.1146	1.791
#2	.0351	.0120	2.657	.2081	.1135	1.782

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.83	10.18	1.7184	-.0380	.06824	.14320
#1	11.89	10.28	1.7380	-.0319	.06911	.14464
#2	11.76	10.08	1.6989	-.0441	.06736	.14176

Int. Std.	Sc3572
Units	Cts/S
Avg	135.82
#1	135.72
#2	135.91

Method: 2009A Sample Name: K0911120-014 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.32	.0235	.0190	.43970	.00320	.0655
#1	57.52	.0204	.0165	.43836	.00326	.0678
#2	57.12	.0267	.0215	.44103	.00314	.0632

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0144	22.71	.5398	.0417	.8653	134.2
#1	.0146	22.65	.5394	.0425	.8656	133.6
#2	.0142	22.77	.5401	.0410	.8649	134.8

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8691	34.95	1.5456	.0063	.1416	9.657
#1	.8659	34.90	1.5513	.0052	.1403	9.647
#2	.8724	35.00	1.5399	.0074	.1429	9.667

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152	.0133	29.16	.2469	.1533	2.244
#1	.0137	.0120	29.24	.2560	.1521	2.234
#2	.0167	.0146	29.09	.2379	.1545	2.254

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.712	10.59	2.2159	-.0584	.10809	.21441
#1	5.696	10.61	2.2159	-.0670	.10821	.21473
#2	5.728	10.57	2.2159	-.0499	.10796	.21408

Int. Std.	Sc3572
Units	Cts/S
Avg	136.50
#1	136.43
#2	136.57

Method: 2009A Sample Name: K0911120-015 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 15:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	53.00	.0311	.0091	.84438	.00261	.0039
#1	53.14	.0267	.0129	.84241	.00265	.0065
#2	52.86	.0356	.0053	.84636	.00258	.0014

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142	28.53	.4375	.0436	.8012	119.3
#1	.0142	28.35	.4360	.0439	.8061	119.4
#2	.0142	28.71	.4390	.0434	.7962	119.2

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.085	21.79	5.357	.0049	.1352	4.682
#1	1.079	21.82	5.357	.0036	.1355	4.653
#2	1.092	21.77	5.357	.0061	.1349	4.711

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222	.0186	1.458	.2471	.1478	2.247
#1	.0156	.0170	1.464	.2495	.1488	2.234
#2	.0289	.0203	1.453	.2448	.1469	2.260

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.72	8.803	2.0812	-.0428	.07706	.14580
#1	15.68	8.787	2.0811	-.0291	.07744	.14596
#2	15.77	8.819	2.0812	-.0564	.07667	.14564

Int. Std.	Sc3572
Units	Cts/S
Avg	135.99
#1	135.77
#2	136.21

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 15:49 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.826	-.0045	-.0005	2.5011	.05055	-.0100
Stddev	.014	.0025	.0106	.0182	.00007	.0011
%RSD	.2838	55.72	2316.	.72878	.13750	11.02
#1	4.836	-.0027	.0070	2.4882	.05050	-.0092
#2	4.817	-.0063	-.0079	2.5140	.05060	-.0108
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	25.57	.0015	-.0008	.0011	24.18
Stddev	.0002	.16	.0033	.0004	.0008	.19
%RSD	153.2	.6152	214.4	56.69	70.73	.7892
#1	.0000	25.46	.0038	-.0005	.0006	24.05
#2	-.0003	25.68	-.0008	-.0011	.0017	24.32
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	26.06	4.912	-.0003	-.0022	9.968
Stddev	.0022	.07	.011	.0000	.0010	.008
%RSD	28.93	.2830	.2192	1.792	46.19	.0811
#1	-.0061	26.01	4.904	-.0003	-.0029	9.962
#2	-.0092	26.12	4.920	-.0003	-.0015	9.973
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062	.0014	9.834	-.0038	-.0005	.0015
Stddev	.0010	.0019	.014	.0123	.0011	.0001
%RSD	16.59	133.5	.1432	321.5	245.4	7.779
#1	.0070	.0028	9.824	.0049	-.0013	.0015
#2	.0055	.0001	9.844	-.0125	.0003	.0014
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 15:49

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.72	2.576	.00246	-.0072	.51942	.49669
Stddev	.07	.007	.00086	.0090	.00028	.00062
%RSD	.6331	.2643	34.875	125.3	.05457	.12531
#1	10.67	2.571	.00185	-.0008	.51922	.49625
#2	10.76	2.581	.00307	-.0135	.51962	.49713
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	131.56
Stddev	.20
%RSD	.14910
#1	131.70
#2	131.43

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 15:52 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4468	2.490	2.649	.46594	.54011	.5069
Stddev	.0144	.018	.013	.00320	.00088	.0034
%RSD	3.234	.7076	.4891	.68641	.16206	.6794
#1	.4570	2.478	2.640	.46368	.54073	.5044
#2	.4366	2.503	2.658	.46821	.53949	.5093
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5083	2.475	.5044	.4985	Q .5542	.5124
Stddev	.0024	.001	.0027	.0014	.0053	.0074
%RSD	.4645	.0184	.5255	.2835	.9637	1.438
#1	.5067	2.475	.5025	.4975	.5580	.5176
#2	.5100	2.475	.5062	.4995	.5504	.5072
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

SL Rerun SL 12/11/09

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.394	2.0115	.98865	.9863	.4929	4.985
Stddev	.023	.0001	.00564	.0109	.0021	.003
%RSD	.9795	.00526	.57053	1.104	.4290	.0680
#1	2.377	2.0115	.98467	.9786	.4914	4.987
#2	2.410	2.0116	.99264	.9940	.4944	4.982
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

per review SMM 12/15

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.550	.5025	.5391	2.315	.4736	.4919
Stddev	.009	.0028	.0012	.011	.0023	.0061
%RSD	.3733	.5508	.2307	.4588	.4853	1.236
#1	2.543	.5005	.5399	2.308	.4752	.4876
#2	2.557	.5044	.5382	2.323	.4720	.4962
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 15:52

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0683	.2979	.50325	4.929	.52857	.48646
Stddev	.0019	.0042	.00208	.057	.00320	.00007
%RSD	2.767	1.407	.41392	1.154	.60480	.01376
#1	-.0696	.3009	.50177	4.888	.53083	.48651
#2	-.0669	.2949	.50472	4.969	.52631	.48641
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	134.20
Stddev	.16
%RSD	.12237
#1	134.31
#2	134.08

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 16:01 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4576	2.548	2.605	.46517	.54394	.5105
Stddev	.0296	.005	.003	.00010	.00064	.0018
%RSD	6.466	.1934	.1013	.02090	.11790	.3594
#1	.4785	2.551	2.607	.46523	.54439	.5118
#2	.4367	2.544	2.603	.46510	.54349	.5092
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5073	2.468	.5054	.4999	.5479	.4855
Stddev	.0019	.021	.0026	.0011	.0009	.0007
%RSD	.3798	.8416	.5167	.2120	.1723	.1502
#1	.5060	2.453	.5073	.4992	.5472	.4860
#2	.5087	2.483	.5036	.5007	.5486	.4850
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.414	1.9957	.98442	.9955	.4957	5.024
Stddev	.014	.0031	.00422	.0026	.0011	.045
%RSD	.5652	.15337	.42908	.2612	.2313	.9066
#1	2.405	1.9935	.98143	.9937	.4949	5.056
#2	2.424	1.9979	.98741	.9973	.4965	4.992
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.573	.5078	.4928	2.349	.4775	.4942
Stddev	.011	.0004	.0046	.015	.0001	.0014
%RSD	.4200	.0879	.9429	.6356	.0107	.2867
#1	2.581	.5075	.4961	2.339	.4776	.4932
#2	2.566	.5082	.4896	2.360	.4775	.4952
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 16:01 Rerun

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0805	.2915	.50244	4.952	.53113	.49112
Stddev	.0070	.0003	.00239	.009	.00412	.00146
%RSD	8.699	.1037	.47656	.1925	.77657	.29678
#1	-.0855	.2917	.50413	4.958	.53405	.49215
#2	-.0756	.2913	.50075	4.945	.52821	.49009
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	133.30
Stddev	.18
%RSD	.13162
#1	133.18
#2	133.42

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 16:06 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0126	.0024	-.00003	.00004
Stddev	.0012	.0089	.0000	.00030	.00004
%RSD	51.66	70.72	.2303	981.98	124.56
#1	-.0031	.0190	.0024	.00018	.00000
#2	-.0014	.0063	.0024	-.00024	.00007
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	-.0007	.0020	-.0002	.0003
Stddev	.0011	.0001	.0040	.0012	.0003
%RSD	46.07	17.93	203.3	495.8	125.8
#1	-.0032	-.0008	-.0009	.0006	.0000
#2	-.0016	-.0007	.0048	-.0011	.0005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.0014	-.0005	.00048	.00031
Stddev	.0023	.0002	.0037	.00005	.00013
%RSD	88.48	12.02	792.0	10.611	40.668
#1	.0010	.0013	.0022	.00044	.00022
#2	.0043	.0015	-.0031	.00052	.00040
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0007	-.0141	.0104	.0011
Stddev	.0038	.0016	.0063	.0115	.0016
%RSD	100.3	233.7	44.88	111.2	141.7
#1	.0064	.0018	-.0186	.0022	.0023
#2	.0011	-.0004	-.0096	.0185	.0000
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/01/09 16:06

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0073	-.0027	-.0002	-.0005	-.0079
Stddev	.0003	.0009	.0012	.0007	.0047
%RSD	3.554	34.76	784.1	131.2	59.01
#1	-.0075	-.0020	.0007	-.0010	-.0112
#2	-.0072	-.0033	-.0010	.0000	-.0046
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0045	.00032	-.0032	.00019	.00005
Stddev	.0031	.00032	.0001	.00005	.00003
%RSD	69.61	99.381	3.668	26.857	65.282
#1	-.0067	.00010	-.0032	.00015	.00007
#2	-.0023	.00055	-.0033	.00022	.00003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	129.86
Stddev	.47
%RSD	.36178
#1	130.19
#2	129.53

Method: 2009A Sample Name: K0911120-016 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.59	.0366	.0137	.32947	.00252	.0251
#1	45.64	.0236	.0239	.32768	.00246	.0270
#2	45.54	.0496	.0036	.33126	.00259	.0231

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073	14.25	.3824	.0361	.6859	108.3
#1	.0079	13.96	.3812	.0363	.6842	107.6
#2	.0066	14.55	.3836	.0359	.6876	108.9

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7261	26.39	1.0426	.0082	.1311	7.551
#1	.7243	26.37	1.0416	.0083	.1299	7.564
#2	.7279	26.41	1.0435	.0080	.1322	7.539

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170	.0126	14.64	.2004	.1394	1.576
#1	.0236	.0141	14.69	.1956	.1405	1.557
#2	.0103	.0110	14.58	.2052	.1382	1.595

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.004	10.27	1.8039	-.0442	.08828	.14653
#1	5.959	10.27	1.8032	-.0398	.08871	.14660
#2	6.049	10.26	1.8047	-.0485	.08785	.14645

Int. Std.	Sc3572
Units	Cts/S
Avg	136.23
#1	136.01
#2	136.46

Method: 2009A Sample Name: K0911120-017 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:25 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.13	.0257	.0212	1.1751	.00259	.0078
#1	48.24	.0418	.0216	1.1762	.00255	.0081
#2	48.03	.0096	.0208	1.1740	.00262	.0075

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109	19.37	.4403	.0338	.7138	113.9
#1	.0115	19.28	.4406	.0347	.7160	114.2
#2	.0102	19.46	.4399	.0329	.7117	113.6

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8052	27.72	2.6989	.0023	.1298	6.013
#1	.8070	27.78	2.6994	.0020	.1293	6.026
#2	.8035	27.67	2.6983	.0026	.1303	5.999

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159	.0104	2.874	.1925	.1266	1.747
#1	.0226	.0104	2.892	.1882	.1261	1.750
#2	.0092	.0105	2.857	.1967	.1271	1.745

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.30	10.44	1.8548	-.0653	.08021	.17725
#1	10.29	10.42	1.8608	-.0610	.08060	.17795
#2	10.31	10.46	1.8487	-.0697	.07982	.17655

Int. Std.	Sc3572
Units	Cts/S
Avg	137.22
#1	136.90
#2	137.53

Method: 2009A Sample Name: K0911120-018 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:28 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.00	.0234	-.0037	.43674	.00218	.0019
#1	39.15	.0293	-.0099	.43622	.00216	.0029
#2	38.85	.0176	.0024	.43726	.00219	.0009

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	22.22	.2487	.0301	.3794	84.23
#1	.0064	22.06	.2484	.0301	.3786	84.27
#2	.0065	22.38	.2489	.0301	.3802	84.18

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4018	18.72	1.3462	.0052	.0896	6.020
#1	.4004	18.81	1.3456	.0071	.0893	6.021
#2	.4033	18.63	1.3468	.0033	.0899	6.019

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0307	.0041	1.460	.1413	.1166	1.097
#1	.0248	.0050	1.468	.1444	.1164	1.090
#2	.0366	.0033	1.453	.1382	.1167	1.104

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.454	6.908	1.8290	-.0402	.07015	.10723
#1	5.449	6.923	1.8363	-.0419	.07049	.10778
#2	5.458	6.894	1.8217	-.0385	.06982	.10668

Int. Std.	Sc3572
Units	Cts/S
Avg	133.72
#1	133.48
#2	133.96

Method: 2009A Sample Name: RB Operator: JC
Comment: (181336) (120109B)
Run Time: 12/01/09 16:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192	-.0107	-.0095	-.00030	.00001	-.0022
#1	.0401	-.0072	-.0119	-.00026	.00004	-.0023
#2	-.0017	-.0143	-.0072	-.00033	-.00001	-.0022

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0021	-.0007	.0000	.0024	.0348
#1	-.0004	.0011	.0008	-.0007	.0022	.0595
#2	-.0006	.0031	-.0021	.0006	.0025	.0101

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.00062	.00024	.0016	-.0001	.0047
#1	.0035	.00084	.00033	.0013	-.0003	.0184
#2	.0050	.00039	.00015	.0019	.0001	-.0089

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178	.0007	-.0001	-.0026	.0011	-.0010
#1	.0156	.0004	-.0022	.0001	.0001	-.0012
#2	.0200	.0010	.0020	-.0052	.0020	-.0007

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059	.0040	.00203	.0129	-.00008	-.00007
#1	-.0027	.0060	.00088	.0145	-.00077	-.00005
#2	.0146	.0021	.00318	.0112	.00060	-.00009

Int. Std.	Sc3572
Units	Cts/S
Avg	130.19
#1	130.42
#2	129.96

Method: 2009A Sample Name: K0911120-MB Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116	-.0013	.0058	.00020	-.00002	-.0016
#1	-.0024	.0000	.0044	.00018	.00000	-.0014
#2	.0256	-.0027	.0072	.00021	-.00005	-.0018

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0087	.0003	.0000	.0003	.0103
#1	-.0004	.0083	.0004	-.0003	.0017	.0109
#2	.0004	.0091	.0001	.0003	-.0011	.0097

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	.00079	.00010	.0002	.0011	.0168
#1	-.0086	.00070	.00007	.0005	.0011	.0165
#2	.0015	.00087	.00013	-.0001	.0012	.0170

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0052	-.0059	.0080	-.0004	-.0001
#1	.0111	.0039	-.0052	.0056	-.0014	.0000
#2	.0096	.0064	-.0066	.0105	.0005	-.0002

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0050	.0091	.00021	.0162	-.00008	-.00005
#1	-.0185	.0103	-.00082	.0162	-.00021	-.00006
#2	.0086	.0080	.00124	.0162	.00005	-.00004

Int. Std.	Sc3572
Units	Cts/S
Avg	131.72
#1	131.56
#2	131.87

Method: 2009A Sample Name: LCSS Operator: JC
Comment: 1/2 K0911120 (181336) (120109B)
Run Time: 12/01/09 16:37 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.81	.4986	.4704	2.2195	.32333	.5461
#1	47.07	.5026	.4725	2.2215	.32390	.5495
#2	46.56	.4945	.4683	2.2175	.32276	.5428

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4871	52.53	.7826	1.028	1.347	92.31
#1	.4862	52.40	.7808	1.030	1.351	92.69
#2	.4879	52.65	.7845	1.026	1.342	91.93

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5731	21.97	2.7262	.3328	1.049	21.95
#1	.5790	22.00	2.7285	.3329	1.049	22.04
#2	.5672	21.95	2.7238	.3327	1.049	21.85

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079	.4016	3.543	.6352	.9082	1.595
#1	1.060	.4031	3.568	.6399	.9134	1.591
#2	1.097	.4002	3.518	.6305	.9030	1.599

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.513	12.13	2.4942	1.212	.05055	.69839
#1	4.509	12.14	2.5069	1.211	.05068	.70180
#2	4.518	12.12	2.4815	1.214	.05041	.69499

Int. Std.	Sc3572
Units	Cts/S
Avg	135.00
#1	134.88
#2	135.13

Method: 2009A Sample Name: K0911120-019 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:40 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.26	.0173	-.0017	.22908	.00145	-.0111
#1	22.33	.0142	-.0038	.22845	.00146	-.0100
#2	22.19	.0204	.0004	.22971	.00144	-.0122

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	9.177	.1270	.0236	.1518	56.52
#1	.0014	9.127	.1269	.0247	.1520	56.43
#2	.0021	9.228	.1271	.0225	.1517	56.60

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1880	7.7918	.83170	.0033	.0426	1.713
#1	.1892	7.7828	.82712	.0040	.0428	1.732
#2	.1868	7.8008	.83629	.0025	.0423	1.695

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0023	.4905	.1411	.0695	.4997
#1	.0020	.0018	.4891	.1448	.0692	.4967
#2	.0020	.0028	.4919	.1374	.0698	.5027

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.488	7.360	.97173	-.0267	.03417	.04222
#1	2.479	7.344	.97196	-.0308	.03449	.04229
#2	2.496	7.375	.97149	-.0227	.03386	.04215

Int. Std.	Sc3572
Units	Cts/S
Avg	133.10
#1	132.80
#2	133.41

Method: 2009A Sample Name: K0911120-019D Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.50	.0106	.0121	.23368	.00120	-.0115
#1	20.50	.0160	.0063	.23338	.00120	-.0136
#2	20.50	.0052	.0179	.23398	.00121	-.0094

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	8.015	.1203	.0211	.1439	56.06
#1	.0021	8.019	.1198	.0210	.1445	56.06
#2	.0016	8.011	.1208	.0212	.1434	56.07

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1763	6.6679	.77392	.0022	.0422	1.665
#1	.1763	6.6742	.77362	.0031	.0413	1.676
#2	.1764	6.6616	.77422	.0014	.0431	1.653

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145	.0036	.4725	.1330	.0643	.5188
#1	.0123	.0035	.4737	.1285	.0646	.5160
#2	.0168	.0037	.4713	.1374	.0640	.5216

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.453	7.203	.95628	-.0251	.03031	.03529
#1	2.455	7.182	.96291	-.0369	.03042	.03543
#2	2.450	7.224	.94965	-.0133	.03019	.03516

Int. Std.	Sc3572
Units	Cts/S
Avg	133.64
#1	133.43
#2	133.85

Method: 2009A Sample Name: K0911120-019L Operator: JC
Comment: 1/10 (181336) (120109B)
Run Time: 12/01/09 16:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.206	.0016	.0042	.04339	.00027	-.0042
#1	4.181	.0070	.0076	.04322	.00034	-.0036
#2	4.230	-.0038	.0008	.04356	.00020	-.0048

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	1.728	.0246	.0043	.0293	10.75
#1	-.0003	1.723	.0243	.0043	.0289	10.72
#2	-.0001	1.732	.0249	.0043	.0296	10.77

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210	1.5850	.15105	.0013	.0068	.3160
#1	.0221	1.5838	.15012	.0014	.0075	.3219
#2	.0198	1.5861	.15199	.0011	.0062	.3101

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	.0015	.0911	.0224	.0131	.0943
#1	.0075	.0040	.0866	.0216	.0138	.0931
#2	.0178	-.0010	.0956	.0232	.0125	.0955

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4421	1.386	.18325	-.0056	.00663	.00811
#1	.4439	1.383	.18205	-.0134	.00675	.00809
#2	.4402	1.389	.18446	.0022	.00652	.00812

Int. Std.	Sc3572
Units	Cts/S
Avg	132.18
#1	132.38
#2	131.98

Method: 2009A Sample Name: K0911120-019S Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 16:49 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.68	.2869	.4984	2.2523	.05049	.4932
#1	24.70	.2842	.4963	2.2491	.05074	.4929
#2	24.65	.2896	.5004	2.2555	.05025	.4936

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514	8.855	.3468	.5195	.4651	58.34
#1	.0515	8.735	.3459	.5171	.4676	58.27
#2	.0513	8.975	.3478	.5219	.4626	58.42

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9267	7.8148	1.3309	.4935	.5580	1.544
#1	.9233	7.7961	1.3253	.4923	.5581	1.547
#2	.9301	7.8336	1.3364	.4948	.5578	1.541

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4758	.0507	.5489	.1589	.5512	1.092
#1	.4647	.0499	.5473	.1588	.5497	1.083
#2	.4870	.0516	.5505	.1590	.5527	1.101

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.541	7.594	3.6355	.4216	.03446	.04142
#1	2.527	7.585	3.6424	.4163	.03453	.04159
#2	2.554	7.602	3.6286	.4268	.03439	.04125

Int. Std.	Sc3572
Units	Cts/S
Avg	133.63
#1	133.31
#2	133.96

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 16:52 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.851	.0076	.0118	2.5022	.04997	-.0097
Stddev	.018	.0044	.0077	.0155	.00033	.0002
%RSD	.3769	58.28	64.98	.61832	.65127	1.899
#1	4.838	.0045	.0172	2.4913	.04974	-.0098
#2	4.864	.0108	.0064	2.5132	.05020	-.0096
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	25.30	.0016	-.0009	-.0003	24.21
Stddev	.0003	.10	.0007	.0002	.0008	.14
%RSD	210.2	.3899	43.95	24.30	235.5	.5691
#1	.0004	25.23	.0021	-.0011	.0002	24.12
#2	-.0001	25.37	.0011	-.0007	-.0009	24.31
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0122	25.97	4.904	.0011	-.0021	10.02
Stddev	.0022	.17	.013	.0003	.0023	.02
%RSD	18.25	.6366	.2549	28.56	113.5	.2111
#1	-.0106	25.85	4.895	.0009	-.0004	10.03
#2	-.0138	26.08	4.913	.0013	-.0037	10.00
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0051	9.871	.0009	.0009	.0009
Stddev	.0010	.0025	.018	.0003	.0004	.0001
%RSD	11.30	48.29	.1782	32.51	45.04	9.659
#1	.0099	.0069	9.858	.0007	.0006	.0009
#2	.0085	.0034	9.883	.0011	.0012	.0008
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 16:52

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.63	2.566	.00227	-.0128	.51608	.49485
Stddev	.02	.008	.00031	.0033	.00036	.00055
%RSD	.2073	.2949	13.656	26.13	.07023	.11146
#1	10.62	2.561	.00249	-.0152	.51634	.49446
#2	10.65	2.571	.00205	-.0104	.51582	.49524
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	131.30
Stddev	.13
%RSD	.10195
#1	131.40
#2	131.21

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 16:55 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4636	2.503	2.593	.46344	.54058	.5059
Stddev	.0102	.037	.024	.00378	.00380	.0008
%RSD	2.202	1.483	.9343	.81542	.70272	.1596
#1	.4564	2.476	2.610	.46077	.53789	.5054
#2	.4708	2.529	2.576	.46611	.54326	.5065
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5062	2.460	.5018	.4954	.5445	.4993
Stddev	.0063	.014	.0079	.0038	.0023	.0101
%RSD	1.249	.5629	1.580	.7644	.4285	2.019
#1	.5017	2.450	.4962	.4927	.5429	.5064
#2	.5106	2.470	.5074	.4981	.5462	.4921
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.400	1.9984	.98121	.9834	.4942	5.014
Stddev	.023	.0029	.00189	.0164	.0045	.007
%RSD	.9670	.14763	.19301	1.666	.9111	.1473
#1	2.384	1.9963	.97987	.9718	.4910	5.019
#2	2.417	2.0005	.98255	.9950	.4974	5.009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.535	.5064	.4916	2.337	.4807	.4877
Stddev	.028	.0010	.0030	.013	.0054	.0061
%RSD	1.094	.2022	.6112	.5682	1.118	1.241
#1	2.515	.5056	.4894	2.328	.4769	.4834
#2	2.555	.5071	.4937	2.347	.4845	.4920
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 16:55

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0719	.2969	.50040	4.921	.52751	.48835
Stddev	.0107	.0008	.00022	.004	.00125	.00112
%RSD	14.95	.2601	.04385	.0804	.23718	.22887
#1	-.0643	.2963	.50055	4.918	.52840	.48756
#2	-.0795	.2974	.50024	4.924	.52663	.48914
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	133.13
Stddev	.47
%RSD	.35258
#1	133.47
#2	132.80

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 16:58 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0149	-.0007	.00000	.00006	-.0021
Stddev	.0093	.0096	.0188	.0002	.00004	.0011
%RSD	255.6	64.38	2781.	6915.4	71.379	53.21
#1	-.0029	.0216	.0126	-.00016	.00009	-.0013
#2	.0102	.0081	-.0140	.00015	.00003	-.0029
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0016	.0011	-.0001	.0017	.0035
Stddev	.0001	.0032	.0012	.0001	.0001	.0009
%RSD	41.54	195.8	112.1	49.61	4.490	26.58
#1	-.0003	-.0006	.0019	-.0002	.0018	.0041
#2	-.0002	.0039	.0002	-.0001	.0017	.0028
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.00059	.00055	.0043	.0012	.0068
Stddev	.0054	.00004	.00027	.0039	.0010	.0054
%RSD	219.7	6.2070	49.242	92.29	83.79	79.12
#1	-.0063	.00062	.00075	.0071	.0019	.0030
#2	.0014	.00057	.00036	.0015	.0005	.0106
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089	.0020	-.0051	-.0001	-.0001	-.0013
Stddev	.0010	.0004	.0021	.0042	.0014	.0003
%RSD	11.79	22.33	41.81	7494.	1960.	21.14
#1	.0081	.0023	-.0036	-.0030	-.0011	-.0015
#2	.0096	.0017	-.0066	.0029	.0009	-.0011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 16:58

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0129	-.0043	.00067	.0088	.00032	.00002
Stddev	.0155	.0007	.00123	.0080	.00019	.00008
%RSD	119.7	17.33	182.24	90.73	60.833	425.75
#1	-.0020	-.0038	-.00019	.0032	.00046	.00008
#2	-.0238	-.0048	.00154	.0145	.00018	-.00004
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	130.22
Stddev	.64
%RSD	.49316
#1	129.77
#2	130.68

Method: 2009A Sample Name: K0911120-020 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 17:01 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.57	.0165	.0136	.16603	.00096	-.0047
#1	15.64	.0313	.0245	.16665	.00095	-.0055
#2	15.51	.0017	.0026	.16540	.00097	-.0038

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	5.665	.1206	.0162	.2670	42.12
#1	.0029	5.657	.1227	.0162	.2669	42.32
#2	.0023	5.673	.1185	.0162	.2671	41.92

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1784	5.6553	.54087	.0033	.0417	1.452
#1	.1815	5.6580	.56143	.0045	.0407	1.457
#2	.1753	5.6526	.52030	.0020	.0428	1.448

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0033	.3845	.0571	.0605	.4809
#1	.0217	.0034	.3909	.0692	.0600	.4793
#2	-.0050	.0032	.3781	.0451	.0609	.4826

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.973	6.237	.70840	-.0273	.02635	.02898
#1	2.001	6.260	.71316	-.0203	.02690	.02916
#2	1.946	6.215	.70364	-.0342	.02579	.02879

Int. Std.	Sc3572
Units	Cts/S
Avg	133.84
#1	133.57
#2	134.12

Method: 2009A Sample Name: K0911120-021 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 17:04 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.81	.0645	.0527	3.7165	.00103	-.0106
#1	22.83	.0646	.0442	3.7205	.00098	-.0108
#2	22.79	.0645	.0611	3.7125	.00109	-.0104

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091	13.73	.3133	.0221	.7537	249.5
#1	.0093	13.75	.3129	.0224	.7555	247.9
#2	.0090	13.71	.3137	.0218	.7519	251.2

Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.769	10.02	8.7425	1.3369	.0029	.0999
#1	2.761	10.01	8.7156	1.3350	.0043	.0998
#2	2.777	10.03	8.7694	1.3388	.0015	.1000

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.637	.0200	.0062	1.286	2.069	.0937
#1	1.640	.0043	.0063	1.292	2.045	.0926
#2	1.634	.0357	.0061	1.280	2.092	.0948

Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.532	10.56	6.349	1.4079	-.0425	.02743
#1	7.511	10.60	6.357	1.4049	-.0314	.02780
#2	7.553	10.51	6.342	1.4109	-.0536	.02706

Elem	Sr4077
Units	ppm
Avg	.12896
#1	.12912
#2	.12881

Int. Std.	Sc3572
Units	Cts/S
Avg	131.86
#1	132.14
#2	131.57

Method: 2009A Sample Name: K0911120-022 Operator: JC
Comment: 1/2 (181336) (120109B)
Run Time: 12/01/09 17:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.98	.0117	.0163	.43093	.00122	.0010
#1	23.98	.0054	.0227	.43062	.00123	.0044
#2	23.97	.0180	.0098	.43125	.00120	-.0024

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	14.48	.2039	.0263	.3341	63.15
#1	.0058	14.34	.2042	.0260	.3342	62.98
#2	.0058	14.63	.2036	.0266	.3341	63.33

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5805	10.42	2.1053	.0034	.0700	2.209
#1	.5765	10.37	2.1124	.0036	.0689	2.203
#2	.5844	10.47	2.0981	.0032	.0711	2.215

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232	.0045	.8172	.1445	.0822	1.284
#1	.0410	.0032	.8184	.1489	.0848	1.278
#2	.0055	.0057	.8160	.1401	.0795	1.290

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.099	7.332	1.1992	-.0277	.03419	.07145
#1	7.068	7.325	1.1979	-.0263	.03394	.07166
#2	7.130	7.339	1.2004	-.0292	.03444	.07124

Int. Std.	Sc3572
Units	Cts/S
Avg	133.02
#1	132.86
#2	133.18

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/01/09 17:11 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.826	.0112	.0149	2.5135	.04994	-.0112
Stddev	.004	.0032	.0043	.0122	.00017	.0007
%RSD	.0793	28.44	29.07	.48405	.33510	6.150
#1	4.829	.0135	.0179	2.5049	.04982	-.0107
#2	4.823	.0090	.0118	2.5221	.05006	-.0117
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	25.45	.0002	-.0011	.0011	24.20
Stddev	.0008	.05	.0005	.0007	.0011	.14
%RSD	750.2	.2066	215.3	62.11	98.96	.5587
#1	.0004	25.49	.0006	-.0016	.0019	24.10
#2	-.0007	25.42	-.0001	-.0006	.0003	24.29
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0087	25.94	4.907	.0010	-.0024	9.943
Stddev	.0042	.07	.008	.0016	.0014	.023
%RSD	48.25	.2669	.1550	150.6	58.24	.2271
#1	-.0057	25.99	4.901	.0021	-.0014	9.959
#2	-.0117	25.89	4.912	-.0001	-.0033	9.927
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0048	9.817	-.0091	.0015	.0002
Stddev	.0157	.0012	.040	.0008	.0001	.0002
%RSD	94.72	24.20	.4066	9.048	7.973	75.49
#1	.0055	.0057	9.845	-.0097	.0016	.0004
#2	.0277	.0040	9.789	-.0085	.0014	.0001
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/01/09 17:11

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.62	2.561	.00048	-.0224	.51168	.49380
Stddev	.00	.011	.00016	.0036	.00164	.00003
%RSD	.0423	.4479	33.373	15.97	.31981	.00635
#1	10.62	2.553	.00036	-.0199	.51284	.49383
#2	10.63	2.569	.00059	-.0250	.51052	.49378
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	131.14
Stddev	.51
%RSD	.38651
#1	131.50
#2	130.78

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/01/09 17:14 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4502	2.485	2.593	.46482	.53583	.5044
Stddev	.0014	.030	.007	.00138	.00006	.0012
%RSD	.3154	1.221	.2619	.29789	.01077	.2320
#1	.4512	2.463	2.589	.46384	.53579	.5035
#2	.4492	2.506	2.598	.46580	.53587	.5052
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5070	2.443	.5034	.4950	.5483	.5014
Stddev	.0036	.001	.0040	.0044	.0000	.0094
%RSD	.7194	.0232	.7911	.8823	.0083	1.882
#1	.5044	2.442	.5005	.4919	.5483	.5081
#2	.5095	2.443	.5062	.4980	.5484	.4948
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.373	1.9868	.98579	.9807	.4945	4.996
Stddev	.021	.0020	.00248	.0120	.0033	.031
%RSD	.8905	.09930	.25161	1.220	.6642	.6278
#1	2.358	1.9854	.98403	.9722	.4922	5.019
#2	2.388	1.9882	.98754	.9892	.4968	4.974
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.524	.5028	.4910	2.322	.4780	.4901
Stddev	.009	.0027	.0006	.024	.0074	.0028
%RSD	.3350	.5330	.1231	1.049	1.543	.5779
#1	2.530	.5009	.4915	2.305	.4728	.4881
#2	2.518	.5047	.4906	2.339	.4832	.4921
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/01/09 17:14

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0587	.2920	.50150	4.951	.52675	.48511
Stddev	.0033	.0015	.00248	.038	.00248	.00114
%RSD	5.594	.5002	.49463	.7761	.46992	.23582
#1	-.0610	.2930	.49974	4.924	.52850	.48592
#2	-.0563	.2909	.50325	4.978	.52500	.48430
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	133.36
Stddev	.06
%RSD	.04545
#1	133.40
#2	133.32

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/01/09 17:17 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0108	.0065	.00031	.00007	-.0022
Stddev	.0021	.0051	.0029	.00030	.00008	.0004
%RSD	19.89	47.09	44.61	97.894	105.84	18.36
#1	.0090	.0144	.0085	.00052	.00012	-.0020
#2	.0119	.0072	.0044	.00009	.00002	-.0025
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	.0009	.0001	.0048	.0056
Stddev	.0008	.0028	.0004	.0002	.0015	.0019
%RSD	983.5	2260.	42.20	151.6	30.91	33.18
#1	.0006	.0019	.0012	.0002	.0038	.0069
#2	-.0005	-.0021	.0007	.0000	.0059	.0043
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060	.00091	.00067	.0034	-.0002	-.0011
Stddev	.0011	.00013	.00038	.0014	.0008	.0140
%RSD	17.40	14.076	55.658	40.37	400.9	1216.
#1	.0053	.00100	.00094	.0044	.0004	.0087
#2	.0068	.00082	.00041	.0025	-.0008	-.0110
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081	.0024	-.0096	-.0029	.0005	-.0013
Stddev	.0126	.0013	.0051	.0003	.0016	.0001
%RSD	154.2	55.25	53.39	10.45	341.3	5.355
#1	-.0007	.0014	-.0132	-.0031	.0016	-.0014
#2	.0170	.0033	-.0060	-.0027	-.0006	-.0013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/01/09 17:17

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	-.0013	.00062	.0217	.00040	.00011
Stddev	.0117	.0010	.00030	.0102	.00033	.00008
%RSD	392.3	82.73	47.238	46.93	81.472	77.628
#1	.0053	-.0020	.00042	.0145	.00017	.00017
#2	-.0113	-.0005	.00083	.0289	.00063	.00005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	130.16
Stddev	.26
%RSD	.19956
#1	130.35
#2	129.98

Service Request # K0911120 (HNO3)_____
Calibration _____120709B_____
QC in calibration__120709B_____
QC Service Request # K0911120_____
STARLIMS Batch # 182068_____

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		

Comments: Rreport Al, Ba, Cr, Cu, Pb, Mn, Ti, Zn/6010B.

Primary Review by _____ Date 12/7/09
Secondary Review by _____ Date 12/8/09
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	150
2	Cal. Stn	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	150
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	150
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	150
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	150
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	SOIL CRA	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	K0911037-MB 1/5	Unknown	0 kg	0 ml	1.00	1	3	3	145
11	LCSS K0911037 1/50	Unknown	0 kg	0 ml	1.00	1	3	4	145
12	K0911037-001 1/5	Unknown	0 kg	0 ml	1.00	1	3	5	145
13	K0911037-001 1/5D	Unknown	0 kg	0 ml	1.00	1	3	6	145
14	K0911037-001 1/25L	Unknown	0 kg	0 ml	1.00	1	3	7	145
15	K0911037-001 1/5 +50A	Unknown	0 kg	0 ml	1.00	1	3	8	145
16	K0911037-001 1/25S	Unknown	0 kg	0 ml	1.00	1	3	9	145
17	K0911037-002 1/5	Unknown	0 kg	0 ml	1.00	1	3	10	145
18	K0911037-003 1/5	Unknown	0 kg	0 ml	1.00	1	3	11	145
19	K0911037-004 1/5	Unknown	0 kg	0 ml	1.00	1	3	12	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	K0911037-005 1/5	Unknown	0 kg	0 ml	1.00	1	4	1	145
23	K0911037-006 1/5	Unknown	0 kg	0 ml	1.00	1	4	2	145
24	K0911037-007 1/5	Unknown	0 kg	0 ml	1.00	1	4	3	145
25	K0911037-008 1/5	Unknown	0 kg	0 ml	1.00	1	4	4	145
26	K0911037-009 1/5	Unknown	0 kg	0 ml	1.00	1	4	5	145
27	K0911037-010 1/5	Unknown	0 kg	0 ml	1.00	1	4	6	145
28	K0911037-011 1/5	Unknown	0 kg	0 ml	1.00	1	4	7	145
29	K0911037-012 1/5	Unknown	0 kg	0 ml	1.00	1	4	8	145
30	K0911037-013 1/5	Unknown	0 kg	0 ml	1.00	1	4	9	145
31	K0911037-014 1/5	Unknown	0 kg	0 ml	1.00	1	4	10	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	K0911037-015 1/5	Unknown	0 kg	0 ml	1.00	1	4	11	145
35	K0911037-016 1/5	Unknown	0 kg	0 ml	1.00	1	4	12	145
36	K0911037-017 1/5	Unknown	0 kg	0 ml	1.00	1	5	1	145
37	K0911037-018 1/5	Unknown	0 kg	0 ml	1.00	1	5	2	145
38	K0911037-019 1/5	Unknown	0 kg	0 ml	1.00	1	5	3	145
39	K0911037-020 1/5	Unknown	0 kg	0 ml	1.00	1	5	4	145
40	K0911120-MB 1/5	Unknown	0 kg	0 ml	1.00	1	5	5	145
41	LCSW K0911120 1/50	Unknown	0 kg	0 ml	1.00	1	5	6	145
42	K0911120-002 1/5	Unknown	0 kg	0 ml	1.00	1	5	7	145
43	K0911120-002 1/5D	Unknown	0 kg	0 ml	1.00	1	5	8	145
44	CCV4	Unknown	0 kg	0 ml	1.00	0	1	2	145
45	CCB4	Unknown	0 kg	0 ml	1.00	0	1	1	145
46	K0911120-002 1/25L	Unknown	0 kg	0 ml	1.00	1	5	9	145
47	K0911120-002 1/5 +50A	Unknown	0 kg	0 ml	1.00	1	5	10	145
48	K0911120-002 1/25S	Unknown	0 kg	0 ml	1.00	1	5	11	145

49	K0911120-001 1/5	Unknown	0 kg	0 ml	1.00	1	5	12	145
50	K0911120-003 1/5	Unknown	0 kg	0 ml	1.00	2	1	1	145
51	K0911120-004 1/5	Unknown	0 kg	0 ml	1.00	2	1	2	145
52	K0911120-005 1/5	Unknown	0 kg	0 ml	1.00	2	1	3	145
53	K0911120-006 1/5	Unknown	0 kg	0 ml	1.00	2	1	4	145
54	K0911120-007 1/5	Unknown	0 kg	0 ml	1.00	2	1	5	145
55	K0911120-008 1/5	Unknown	0 kg	0 ml	1.00	2	1	6	145
56	CCV5	Unknown	0 kg	0 ml	1.00	0	1	2	145
57	CCB5	Unknown	0 kg	0 ml	1.00	0	1	1	145
58	K0911120-009 1/5	Unknown	0 kg	0 ml	1.00	2	1	7	145
59	K0911120-010 1/5	Unknown	0 kg	0 ml	1.00	2	1	8	145
60	K0911120-011 1/5	Unknown	0 kg	0 ml	1.00	2	1	9	145
61	K0911120-012 1/5	Unknown	0 kg	0 ml	1.00	2	1	10	145
62	K0911120-013 1/5	Unknown	0 kg	0 ml	1.00	2	1	11	145
63	K0911120-014 1/5	Unknown	0 kg	0 ml	1.00	2	1	12	145
64	K0911120-015 1/5	Unknown	0 kg	0 ml	1.00	2	2	1	145
65	K0911120-016 1/5	Unknown	0 kg	0 ml	1.00	2	2	2	145
66	K0911120-017 1/5	Unknown	0 kg	0 ml	1.00	2	2	3	145
67	K0911120-018 1/5	Unknown	0 kg	0 ml	1.00	2	2	4	145
68	CCV6	Unknown	0 kg	0 ml	1.00	0	1	2	145
69	CCB6	Unknown	0 kg	0 ml	1.00	0	1	1	145
70	K0911120-MB	Unknown	0 kg	0 ml	1.00	2	2	5	145
71	LCSS K0911120 1/50	Unknown	0 kg	0 ml	1.00	2	2	6	145
72	K0911120-019 1/5	Unknown	0 kg	0 ml	1.00	2	2	7	145
73	K0911120-019 1/5D	Unknown	0 kg	0 ml	1.00	2	2	8	145
74	K0911120-019 1/25L	Unknown	0 kg	0 ml	1.00	2	2	9	145
75	K0911120-019 1/5 +50A	Unknown	0 kg	0 ml	1.00	2	2	10	145
76	K0911120-019 1/25S	Unknown	0 kg	0 ml	1.00	2	2	11	145
77	K0911120-020 1/5	Unknown	0 kg	0 ml	1.00	2	2	12	145
78	K0911120-021 1/5	Unknown	0 kg	0 ml	1.00	2	3	1	145
79	K0911120-022 1/5	Unknown	0 kg	0 ml	1.00	2	3	2	145
80	CCV7	Unknown	0 kg	0 ml	1.00	0	1	2	145
81	CCB7	Unknown	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Sample Configuration

Sample	Configuration	Date
All Samples	acqmet11	8:02:57 12/7/09

Instrument Setup - Configurations

Configuration Name - acqmet11
Description - PQExcell CCT Sim Default
Date - 8:02:57 12/7/09
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	-480.00
Lens1	-5.00
Lens2	-75.00
Lens3	5.00
Pole Bias	3.00
Sampling Depth	350.00
Horizontal	-40.00
Vertical	65.00
Cool	13.00
Auxiliary	0.60
Nebuliser	0.82
Forward power	1,360.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-34.00
Focus	10.00

ExCell Mass Calibration **Date: 12/5/2009**

Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include
6.015	1316	0.665	-0.026	TRUE
7.016	1563	0.665	-0.055	TRUE
9.012	2083	0.665	-0.003	TRUE
23.985	5896	0.665	0.036	TRUE
24.986	6150	0.716	0.035	TRUE
25.983	6397	0.716	0.011	TRUE
43.956	10966	0.767	0.02	TRUE
45.953	11467	0.716	-0.006	TRUE
51.94	12994	0.767	0.015	TRUE
53.949	13501	0.767	0.001	TRUE
55.935	14008	0.767	0.01	TRUE
56.935	14268	0.767	0.032	TRUE
57.934	14515	0.767	0.005	TRUE
58.933	14762	0.767	-0.022	TRUE
75.92	19085	0.818	-0.005	TRUE
77.919	19592	0.818	-0.009	TRUE
112.904	28480	0.869	-0.053	TRUE
114.904	29000	0.869	-0.008	TRUE
128.905	32562	0.868	-0.013	TRUE
130.905	33076	0.817	0.006	TRUE
131.905	33329	0.868	0.001	TRUE
139.905	35370	0.868	0.018	TRUE
141.908	35877	0.868	0.006	TRUE
205.974	52199	0.816	0.016	TRUE
206.976	52446	0.816	-0.017	TRUE
207.977	52706	0.816	0.002	TRUE
208.98	52959	0.867	-0.009	TRUE
238.051	60376	0.816	0.011	TRUE

Excluded In Calib | Excluded In Results | Peak Run Excluded | Multi Element | Semi Quant | 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	5Bkg	7Li	9Be	59Co	115In	208Pb
1	Stability 12/07/09	12/7/2009 8:08:40 A	(P)0.167	(P)15491.729	(P)4061.911	(P)36519.961	(P)44818.704	(P)15330.222
2	Stability 12/07/09	12/7/2009 8:09:42 A	(P)0.000	(P)16061.024	(P)4131.931	(P)36880.901	(P)46156.454	(P)15532.940
3	Stability 12/07/09	12/7/2009 8:10:44 A	(P)0.000	(P)15849.454	(P)4065.746	(P)36298.736	(P)45869.358	(P)15209.593
4	Stability 12/07/09	12/7/2009 8:11:46 A	(P)0.167	(P)15997.119	(P)4119.762	(P)36631.924	(P)46100.270	(P)15410.140
5	Stability 12/07/09	12/7/2009 8:12:48 A	(P)0.000	(P)16285.444	(P)4217.290	(P)36389.470	(P)46212.134	(P)15272.326
	Mean of Stability 12/07	12/7/2009 8:08:40 A	(P)0.067	(P)15936.954	(P)4119.328	(P)36544.198	(P)45831.384	(P)15351.044
	SD of Stability 12/07/09		(P)0.091	(P)294.253	(P)63.094	(P)226.850	(P)580.927	(P)125.715
	%RSD of Stability 12		(P)136.931	(P)1.846	(P)1.532	(P)0.621	(P)1.268	(P)0.819

Run	Label	TimeStamp	209Bi	220Bkg	238U
1	Stability 12/07/09	12/7/2009 8:08:40 A	(P)24798.507	(P)0.000	(P)26438.787
2	Stability 12/07/09	12/7/2009 8:09:42 A	(P)24702.840	(P)0.000	(P)26466.664
3	Stability 12/07/09	12/7/2009 8:10:44 A	(P)24477.452	(P)0.000	(P)26007.326
4	Stability 12/07/09	12/7/2009 8:11:46 A	(P)24302.990	(P)0.000	(P)26056.581
5	Stability 12/07/09	12/7/2009 8:12:48 A	(P)24268.095	(P)0.167	(P)26146.747
	Mean of Stability 12/07	12/7/2009 8:08:40 A	(P)24509.977	(P)0.033	(P)26223.221
	SD of Stability 12/07/09		(P)236.037	(P)0.075	(P)215.616
	%RSD of Stability 12		(P)0.963	(P)223.607	(P)0.822

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**Cal. Blk**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 10:56**					
Arsenic	75	0.0323	-0.0563	0.024	**0**	0.0489	0
Beryllium	9	0.0003	0.0007	-0.001	**0**	0.0009	0
Cadmium	111	0.0004	0.0008	-0.0012	**0**	0.0011	0
Cadmium	114	0.0026	-0.0012	-0.0013	**0**	0.0022	0
Cobalt	59	-0.0005	0.0008	-0.0003	**0**	0.0007	0
Lead	206	-0.0006	-0.0017	0.0023	**0**	0.0021	0
Lead	207	0.0066	-0.0065	-0.0001	**0**	0.0066	0
Lead	208	0.0015	-0.0029	0.0014	**0**	0.0025	0
Molybdenum	95	0.0157	-0.0047	-0.011	**0**	0.0139	0
Molybdenum	97	0.0173	-0.0061	-0.0112	**0**	0.0152	0
Molybdenum	98	0.0172	-0.0072	-0.01	**0**	0.015	0
Nickel	60	0.0067	-0.001	-0.0057	**0**	0.0063	0
Nickel	62	-0.0377	0.0269	0.0108	**0**	0.0336	0
Selenium	77	-0.1632	0.0707	0.0924	**0**	0.1417	0
Selenium	78	-0.1309	-0.0478	0.1787	**0**	0.1602	0
Selenium	82	-0.0214	-0.1826	0.204	**0**	0.1942	0
Thallium	203	0.0001	0.0018	-0.0019	**0**	0.0019	0
Thallium	205	0.0009	0	-0.001	**0**	0.001	0
Vanadium	51	0.0145	-0.0139	-0.0006	**0**	0.0142	0

Internal Standard Factors:

Lithium	6	0.992	0.992	1.016	**0.992**	n/a	n/a
Rhodium	103	1.005	0.992	1.003	**1.005**	n/a	n/a
Indium	115	1.001	0.993	1.006	**1.001**	n/a	n/a
Lutetium	175	0.983	1	1.017	**0.983**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**Cal. Stn**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 10:59**					
Arsenic	75	24.48	24.96	25.56	**25**	0.5435	2.174
Beryllium	9	24.96	24.66	25.38	**25**	0.363	1.452
Cadmium	111	24.92	25.15	24.93	**25**	0.1279	0.5117
Cadmium	114	24.91	25.13	24.97	**25**	0.1128	0.4512
Cobalt	59	25	24.4	25.6	**25**	0.5968	2.387
Lead	206	24.92	25.15	24.93	**25**	0.1326	0.5303
Lead	207	24.79	25.18	25.03	**25**	0.1948	0.7791
Lead	208	25.08	24.99	24.92	**25**	0.0789	0.3154
Molybdenum	95	24.59	24.96	25.45	**25**	0.434	1.736
Molybdenum	97	24.37	25.22	25.41	**25**	0.5558	2.223
Molybdenum	98	24.36	25.28	25.36	**25**	0.5512	2.205
Nickel	60	24.93	25	25.07	**25**	0.0681	0.2724
Nickel	62	24.97	25	25.02	**25**	0.0266	0.1062
Selenium	77	25.8	23.8	25.4	**25**	1.056	4.223
Selenium	78	24.89	24.92	25.19	**25**	0.1668	0.6674
Selenium	82	24.44	25.32	25.25	**25**	0.4905	1.962
Thallium	203	25.01	24.86	25.13	**25**	0.1326	0.5305
Thallium	205	24.83	25.05	25.11	**25**	0.1468	0.5872
Vanadium	51	24.69	25.45	24.86	**25**	0.3956	1.582

Internal Standard Factors:

Lithium	6	0.978	0.967	0.988	**0.978**	n/a	n/a
Rhodium	103	0.974	0.964	0.972	**0.974**	n/a	n/a
Indium	115	0.985	0.978	0.971	**0.985**	n/a	n/a
Lutetium	175	0.994	0.991	0.995	**0.994**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		12/7/09 11:02					
Arsenic	75	25.68	26	24.89	**25.52**	0.571	2.237
Beryllium	9	2.687	2.728	2.615	**2.677**	0.0572	2.137
Cadmium	111	12.45	12.57	12.57	**12.53**	0.0733	0.5851
Cadmium	114	12.5	12.53	12.66	**12.56**	0.0829	0.6599
Cobalt	59	25.03	25.57	24.68	**25.09**	0.451	1.797
Lead	206	23.1	23.42	23.18	**23.23**	0.1664	0.7161
Lead	207	26.03	25.96	26.24	**26.08**	0.1463	0.561
Lead	208	24.63	24.81	24.86	**24.77**	0.1203	0.4857
Molybdenum	95	24.54	25.37	24.84	**24.92**	0.4217	1.693
Molybdenum	97	24.89	25.34	24.8	**25.01**	0.294	1.176
Molybdenum	98	24.89	25.27	24.9	**25.02**	0.2152	0.8602
Nickel	60	26.18	25.9	25.04	**25.71**	0.5911	2.299
Nickel	62	26.28	26.35	24.79	**25.81**	0.8805	3.412
Selenium	77	26.3	25.77	25.16	**25.75**	0.5693	2.211
Selenium	78	26.47	26.5	25.72	**26.23**	0.4404	1.679
Selenium	82	26.66	27.44	25.84	**26.65**	0.803	3.013
Thallium	203	25.14	25.11	25.36	**25.2**	0.1356	0.5382
Thallium	205	25.24	24.98	25.08	**25.1**	0.1304	0.5196
Vanadium	51	26.73	26.36	25.85	**26.31**	0.4376	1.663

Internal Standard Factors:

Lithium	6	1.008	0.999	0.985	**1.008**	n/a	n/a
Rhodium	103	0.986	0.983	0.959	**0.986**	n/a	n/a
Indium	115	0.991	0.976	0.988	**0.991**	n/a	n/a
Lutetium	175	1	0.997	1.002	**1**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV1			Mean	SD	%RSD
TimeStamp		12/7/09 11:05					
Arsenic	75	25.85	26.24	25.59	**25.89**	0.3233	1.249
Beryllium	9	27.07	27.15	26	**26.74**	0.6441	2.409
Cadmium	111	25.49	25.38	25.55	**25.47**	0.0902	0.3541
Cadmium	114	25.99	25.58	25.7	**25.75**	0.2107	0.8182
Cobalt	59	26.62	24.96	24.99	**25.53**	0.9502	3.722
Lead	206	25.45	25.55	25.78	**25.6**	0.1687	0.6593
Lead	207	25.4	25.91	25.52	**25.61**	0.2695	1.052
Lead	208	25.39	25.7	25.67	**25.59**	0.1691	0.6607
Molybdenum	95	26.07	25.76	26	**25.94**	0.1647	0.6349
Molybdenum	97	26.46	25.58	25.91	**25.98**	0.4428	1.705
Molybdenum	98	26.44	25.94	26.11	**26.16**	0.2553	0.976
Nickel	60	26.8	25.81	25.64	**26.08**	0.6279	2.407
Nickel	62	26.8	26.29	25.32	**26.13**	0.7494	2.867
Selenium	77	26.42	24.92	25.73	**25.69**	0.752	2.927
Selenium	78	27.02	27.47	26.72	**27.07**	0.3789	1.4
Selenium	82	26.28	26.09	26.47	**26.28**	0.1893	0.7202
Thallium	203	25.05	25.79	25.69	**25.51**	0.4006	1.57
Thallium	205	25.24	25.65	25.75	**25.55**	0.2689	1.053
Vanadium	51	26.4	26.77	25.58	**26.25**	0.6099	2.323

Internal Standard Factors:

Lithium	6	1.029	1.042	1.014	**1.029**	n/a	n/a
Rhodium	103	1.018	0.986	0.985	**1.018**	n/a	n/a
Indium	115	1.025	1.003	1.001	**1.025**	n/a	n/a
Lutetium	175	1.016	1.028	1.024	**1.016**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**ICB1**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 11:08**					
Arsenic	75	-0.0195	-0.068	-0.0477	**-0.0451**	0.0244	54.06
Beryllium	9	0.0068	0.0097	0.0029	**0.0065**	0.0034	53.13
Cadmium	111	0.0044	0.0048	0.0032	**0.0041**	0.0008	19.85
Cadmium	114	-0.0001	0.0004	0.0033	**0.0012**	0.0019	152
Cobalt	59	0.004	0.0029	0.0073	**0.0047**	0.0023	49.16
Lead	206	0.0131	-0.0026	0.0033	**0.0046**	0.0079	171.8
Lead	207	0.0182	0.0141	0.0014	**0.0112**	0.0088	78.28
Lead	208	0.0112	0.006	0.0065	**0.0079**	0.0029	36.12
Molybdenum	95	0.3213	0.1978	0.1549	**0.2247**	0.0864	38.44
Molybdenum	97	0.3058	0.197	0.1661	**0.223**	0.0734	32.91
Molybdenum	98	0.3447	0.2306	0.1644	**0.2466**	0.0912	37
Nickel	60	0.002	0.013	0.0013	**0.0054**	0.0066	121.4
Nickel	62	-0.0168	-0.05	0.0329	**-0.0113**	0.0417	369
Selenium	77	0.227	0.3444	0.2457	**0.2724**	0.0631	23.16
Selenium	78	0.1703	0.7359	0.3154	**0.4072**	0.2938	72.14
Selenium	82	0.0446	-0.1173	-0.0483	**-0.0403**	0.0813	201.5
Thallium	203	0.0151	0.0123	0.0126	**0.0133**	0.0015	11.63
Thallium	205	0.009	0.009	0.0124	**0.0101**	0.002	19.57
Vanadium	51	0.0142	0.0135	-0.0016	**0.0087**	0.009	102.9

Internal Standard Factors:

Lithium	6	0.969	1.053	0.988	**0.969**	n/a	n/a
Rhodium	103	1.028	1.018	1.015	**1.028**	n/a	n/a
Indium	115	1.03	1.016	1.023	**1.03**	n/a	n/a
Lutetium	175	1.033	1.028	1.032	**1.033**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB1			Mean	SD	%RSD
TimeStamp		12/7/09 11:11					
Arsenic	75	-0.0587	-0.0721	-0.1161	**-0.0823**	0.03	36.52
Beryllium	9	-0.0047	0.0001	0.001	**-0.0012**	0.0031	252.5
Cadmium	111	0.0005	0.0054	0.0037	**0.0032**	0.0024	76.37
Cadmium	114	0.0036	-0.0002	0.0016	**0.0017**	0.0019	116.5
Cobalt	59	0.0039	0.0036	0.0034	**0.0036**	0.0003	7.872
Lead	206	0.0034	0.0015	0.0018	**0.0023**	0.001	44.8
Lead	207	-0.0044	0.005	0.0019	**0.0008**	0.0048	582.4
Lead	208	-0.0003	0.004	-0.0009	**0.0009**	0.0027	282.5
Molybdenum	95	0.0495	0.0514	0.0235	**0.0414**	0.0156	37.66
Molybdenum	97	0.0436	0.0271	0.0337	**0.0348**	0.0083	23.84
Molybdenum	98	0.0495	0.0463	0.0358	**0.0439**	0.0072	16.39
Nickel	60	0.0156	0.0066	0.0005	**0.0076**	0.0076	100.6
Nickel	62	0.0021	-0.027	0.0023	**-0.0075**	0.0169	223.8
Selenium	77	0.1126	0.2194	0.2513	**0.1945**	0.0727	37.37
Selenium	78	0.1713	0.0369	0.3588	**0.189**	0.1617	85.56
Selenium	82	-0.1966	-0.1471	-0.3232	**-0.2223**	0.0908	40.86
Thallium	203	0.0081	0.0075	0.0104	**0.0087**	0.0015	17.32
Thallium	205	0.0057	0.0055	0.0052	**0.0055**	0.0002	4.233
Vanadium	51	0.0106	-0.0041	-0.0073	**-0.0003**	0.0096	3703

Internal Standard Factors:

Lithium	6	1.012	0.982	0.984	**1.012**	n/a	n/a
Rhodium	103	1.021	1.017	1.013	**1.021**	n/a	n/a
Indium	115	1.025	1.019	1.014	**1.025**	n/a	n/a
Lutetium	175	1.029	1.029	1.003	**1.029**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		SOIL CRA			Mean	SD	%RSD
TimeStamp		12/7/09 11:14					
Arsenic	75	0.9987	1.079	1.075	**1.051**	0.0453	4.308
Beryllium	9	0.0505	0.0605	0.0456	**0.0522**	0.0076	14.62
Cadmium	111	0.0402	0.0343	0.0424	**0.0389**	0.0042	10.8
Cadmium	114	0.0427	0.0374	0.0406	**0.0402**	0.0027	6.607
Cobalt	59	0.0424	0.0461	0.0427	**0.0438**	0.0021	4.698
Lead	206	0.1317	0.1356	0.1356	**0.1343**	0.0023	1.683
Lead	207	0.1374	0.1466	0.1449	**0.143**	0.0049	3.408
Lead	208	0.1413	0.1405	0.1403	**0.1407**	0.0005	0.3548
Molybdenum	95	0.0905	0.0968	0.0965	**0.0946**	0.0036	3.766
Molybdenum	97	0.0914	0.1145	0.0983	**0.1014**	0.0119	11.69
Molybdenum	98	0.104	0.1025	0.1085	**0.105**	0.0031	2.988
Nickel	60	0.535	0.5053	0.4781	**0.5062**	0.0285	5.626
Nickel	62	0.4869	0.4239	0.4581	**0.4563**	0.0315	6.909
Selenium	77	2.146	1.927	2.171	**2.081**	0.1338	6.429
Selenium	78	2.466	1.74	2.3	**2.169**	0.3802	17.53
Selenium	82	1.932	2.092	2.212	**2.079**	0.1405	6.762
Thallium	203	0.0438	0.0439	0.0357	**0.0412**	0.0047	11.46
Thallium	205	0.0371	0.0409	0.0421	**0.04**	0.0026	6.485
Vanadium	51	0.4387	0.4166	0.4415	**0.4323**	0.0136	3.146

Internal Standard Factors:

Lithium	6	1.022	0.96	1.032	**1.022**	n/a	n/a
Rhodium	103	1.026	1.013	1.005	**1.026**	n/a	n/a
Indium	115	1.023	1.012	1.002	**1.023**	n/a	n/a
Lutetium	175	1.02	1.022	1.018	**1.02**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		ICSA			Mean	SD	%RSD
TimeStamp		12/7/09 11:17					
Arsenic	75	0.0251	-0.0352	-0.148	**-0.0527**	0.0879	166.7
Beryllium	9	-0.0106	0.0043	-0.0084	**-0.0049**	0.0081	164.4
Cadmium	111	0.0859	0.0986	0.0804	**0.0883**	0.0093	10.55
Cadmium	114	0.0629	0.0576	0.0602	**0.0602**	0.0026	4.399
Cobalt	59	0.8318	0.8663	0.8371	**0.8451**	0.0186	2.201
Lead	206	0.0968	0.1123	0.1078	**0.1056**	0.008	7.551
Lead	207	0.1152	0.1106	0.1149	**0.1136**	0.0026	2.264
Lead	208	0.105	0.107	0.1113	**0.1077**	0.0032	3.016
Molybdenum	95	49.08	49.2	49.17	**49.15**	0.0596	0.1213
Molybdenum	97	49.33	49.95	49.73	**49.67**	0.3157	0.6356
Molybdenum	98	49.28	50.11	49.23	**49.54**	0.4936	0.9965
Nickel	60	2.16	2.153	2.081	**2.131**	0.0438	2.054
Nickel	62	1.892	1.675	1.797	**1.788**	0.1087	6.08
Selenium	77	3.289	3.343	3.644	**3.425**	0.1913	5.585
Selenium	78	0.4916	0.5389	0.3655	**0.4653**	0.0897	19.27
Selenium	82	-0.2502	-0.4177	-0.3689	**-0.3456**	0.0861	24.92
Thallium	203	0.0414	0.0379	0.0334	**0.0376**	0.004	10.77
Thallium	205	0.0359	0.0306	0.0314	**0.0326**	0.0029	8.851
Vanadium	51	0.1017	-0.1097	-0.0546	**-0.0209**	0.1097	525.7

Internal Standard Factors:

Lithium	6	1.104	1.168	1.125	**1.104**	n/a	n/a
Rhodium	103	1.124	1.131	1.131	**1.124**	n/a	n/a
Indium	115	1.112	1.113	1.118	**1.112**	n/a	n/a
Lutetium	175	1.096	1.102	1.111	**1.096**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**ICSAB**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 11:20**					
Arsenic	75	25.2	25.56	24.82	**25.2**	0.3675	1.458
Beryllium	9	0.0076	0.0041	0.0043	**0.0053**	0.002	37.14
Cadmium	111	23.21	23.51	23.42	**23.38**	0.1537	0.6574
Cadmium	114	23.33	23.31	23.34	**23.33**	0.0151	0.0645
Cobalt	59	50.75	50.39	49.1	**50.08**	0.8685	1.734
Lead	206	0.1247	0.1101	0.1029	**0.1126**	0.0111	9.847
Lead	207	0.1449	0.1229	0.1109	**0.1262**	0.0172	13.66
Lead	208	0.1377	0.1152	0.1099	**0.1209**	0.0148	12.19
Molybdenum	95	50.03	50.78	50.67	**50.49**	0.4006	0.7934
Molybdenum	97	49.72	50.73	50.63	**50.36**	0.5562	1.104
Molybdenum	98	49.29	50.86	50.59	**50.24**	0.8386	1.669
Nickel	60	49.49	49.83	48.08	**49.13**	0.9277	1.888
Nickel	62	48.02	48.66	48.26	**48.31**	0.3203	0.663
Selenium	77	27.52	27.08	26.69	**27.09**	0.4151	1.532
Selenium	78	25.73	25.17	24.58	**25.16**	0.5776	2.296
Selenium	82	24.38	25.62	24.59	**24.86**	0.6593	2.652
Thallium	203	0.0471	0.0526	0.0559	**0.0519**	0.0044	8.499
Thallium	205	0.0462	0.0507	0.0451	**0.0473**	0.003	6.326
Vanadium	51	51.05	50.92	49.47	**50.48**	0.8786	1.741

Internal Standard Factors:

Lithium	6	1.095	1.071	1.061	**1.095**	n/a	n/a
Rhodium	103	1.107	1.107	1.1	**1.107**	n/a	n/a
Indium	115	1.094	1.078	1.076	**1.094**	n/a	n/a
Lutetium	175	1.064	1.077	1.074	**1.064**	n/a	n/a

Instrument ID: K-ICP-MS-02 | **Method: EPA 6020**
Experiment: 12-07-09B | **Analyst: Greg Jasper**
Units: µg/L (ppb) | **STARLIMS #182068**

Sample Name:		**K0911037-MB 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 11:23**					
Arsenic	75	-0.0475	0.0088	0.0309	**-0.0026**	0.0405	1545
Beryllium	9	-0.0053	-0.0082	0.0011	**-0.0041**	0.0048	116
Cadmium	111	0.0082	0.0084	0.0032	**0.0066**	0.003	45.26
Cadmium	114	0.2096	0.2224	0.1964	**0.2095**	0.013	6.196
Cobalt	59	0.008	0.0027	0.0023	**0.0044**	0.0032	73.55
Lead	206	0.0853	0.0815	0.0659	**0.0776**	0.0103	13.24
Lead	207	0.0939	0.0984	0.0708	**0.0877**	0.0148	16.88
Lead	208	0.0881	0.0897	0.0689	**0.0822**	0.0116	14.07
Molybdenum	95	0.5217	0.345	0.2229	**0.3632**	0.1502	41.36
Molybdenum	97	0.4976	0.324	0.2143	**0.3453**	0.1429	41.38
Molybdenum	98	0.5328	0.3522	0.2279	**0.371**	0.1533	41.33
Nickel	60	0.0774	0.0939	0.0933	**0.0882**	0.0093	10.6
Nickel	62	0.077	0.0817	0.109	**0.0892**	0.0173	19.37
Selenium	77	0.4372	0.3009	0.142	**0.2934**	0.1478	50.36
Selenium	78	-0.0015	-0.7322	0.0186	**-0.2383**	0.4278	179.5
Selenium	82	0.0571	0.2627	0.2288	**0.1829**	0.1102	60.28
Thallium	203	0.001	-0.0006	-0.0021	**-0.0006**	0.0015	264.6
Thallium	205	-0.0014	0.0001	-0.0028	**-0.0014**	0.0014	105.6
Vanadium	51	-0.0179	-0.0238	0.0102	**-0.0105**	0.0182	173.2

Internal Standard Factors:

Lithium	6	0.957	0.965	1.03	**0.957**	n/a	n/a
Rhodium	103	1.022	1.004	1.009	**1.022**	n/a	n/a
Indium	115	1.032	1.01	1.016	**1.032**	n/a	n/a
Lutetium	175	1.017	1.028	1.027	**1.017**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0911037 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 11:26					
Arsenic	75	16.12	18.12	18.5	**17.58**	1.279	7.278
Beryllium	9	11.71	13.05	13.52	**12.76**	0.9393	7.363
Cadmium	111	18.32	19.5	19.93	**19.25**	0.8327	4.326
Cadmium	114	18.34	19.54	20.1	**19.33**	0.8952	4.632
Cobalt	59	39.76	41.66	43.06	**41.5**	1.657	3.994
Lead	206	17.69	18.96	19.46	**18.7**	0.9139	4.887
Lead	207	19.83	21.12	21.91	**20.95**	1.048	5.003
Lead	208	19.11	20.31	20.88	**20.1**	0.9041	4.498
Molybdenum	95	12.36	13.17	13.77	**13.1**	0.7055	5.386
Molybdenum	97	12.42	13.34	13.82	**13.2**	0.7113	5.39
Molybdenum	98	12.48	13.21	13.73	**13.14**	0.6244	4.752
Nickel	60	43.11	45.71	47.65	**45.49**	2.278	5.008
Nickel	62	41.57	45.08	46.59	**44.41**	2.576	5.801
Selenium	77	38.95	39.61	39.68	**39.41**	0.4023	1.021
Selenium	78	38.42	40.64	41.86	**40.31**	1.74	4.316
Selenium	82	38.08	41.2	41.35	**40.21**	1.847	4.593
Thallium	203	48.37	51.58	52.47	**50.8**	2.159	4.249
Thallium	205	48.71	51.77	52.79	**51.09**	2.124	4.158
Vanadium	51	34.56	37.32	39.12	**37**	2.292	6.196

Internal Standard Factors:

Lithium	6	0.99	1.032	1.072	**0.99**	n/a	n/a
Rhodium	103	0.968	0.985	1.005	**0.968**	n/a	n/a
Indium	115	0.968	0.986	0.996	**0.968**	n/a	n/a
Lutetium	175	0.959	0.982	0.997	**0.959**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 11:29					
Arsenic	75	14.28	13.79	13.81	**13.96**	0.2804	2.009
Beryllium	9	1.258	1.176	1.158	**1.197**	0.053	4.43
Cadmium	111	6.918	6.874	6.737	**6.843**	0.0943	1.378
Cadmium	114	7.741	7.664	7.573	**7.659**	0.0843	1.101
Cobalt	59	17.62	16.77	16.46	**16.95**	0.5994	3.537
Lead	206	442.3	444.6	436.2	**441.1**	4.336	0.9832
Lead	207	499.2	496.8	490.3	**495.5**	4.596	0.9276
Lead	208	462.9	458.9	452.5	**458.1**	5.237	1.143
Molybdenum	95	2.844	2.766	2.755	**2.788**	0.0483	1.732
Molybdenum	97	2.932	2.815	2.774	**2.84**	0.0822	2.893
Molybdenum	98	2.865	2.802	2.777	**2.815**	0.0451	1.603
Nickel	60	58.91	59.25	56.98	**58.38**	1.225	2.098
Nickel	62	61.04	61.34	59.36	**60.58**	1.067	1.761
Selenium	77	6.034	6.156	6.366	**6.185**	0.168	2.716
Selenium	78	4.722	3.562	3.642	**3.976**	0.6478	16.29
Selenium	82	4.882	4.901	4.397	**4.727**	0.2859	6.049
Thallium	203	0.3582	0.3555	0.3495	**0.3544**	0.0045	1.257
Thallium	205	0.361	0.3489	0.3447	**0.3515**	0.0085	2.415
Vanadium	51	56.93	51.57	55.85	**54.78**	2.835	5.176

Internal Standard Factors:

Lithium	6	1.071	1.024	1.03	**1.071**	n/a	n/a
Rhodium	103	1.08	1.053	1.053	**1.08**	n/a	n/a
Indium	115	1.043	1.028	1.024	**1.043**	n/a	n/a
Lutetium	175	1.005	0.997	0.984	**1.005**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 11:33					
Arsenic	75	12.56	12.82	12.81	**12.73**	0.1487	1.168
Beryllium	9	1.037	1.079	1.007	**1.041**	0.0362	3.477
Cadmium	111	5.569	5.683	5.816	**5.69**	0.1237	2.174
Cadmium	114	6.294	6.437	6.576	**6.436**	0.1411	2.193
Cobalt	59	15.66	15.88	15.52	**15.69**	0.1819	1.16
Lead	206	368.8	383.8	378.6	**377.1**	7.599	2.015
Lead	207	414.8	431	422.9	**422.9**	8.123	1.921
Lead	208	396.4	413.2	405.4	**405**	8.41	2.076
Molybdenum	95	2.564	2.738	2.727	**2.676**	0.0977	3.65
Molybdenum	97	2.597	2.66	2.739	**2.665**	0.0709	2.66
Molybdenum	98	2.639	2.713	2.708	**2.687**	0.0413	1.538
Nickel	60	52.14	52.1	52.46	**52.23**	0.1934	0.3702
Nickel	62	53.37	54.18	54.11	**53.89**	0.451	0.8369
Selenium	77	7.877	7.768	7.343	**7.663**	0.2823	3.684
Selenium	78	4.335	5.182	4.988	**4.835**	0.4437	9.176
Selenium	82	6.004	6.361	5.989	**6.118**	0.211	3.448
Thallium	203	0.31	0.3073	0.31	**0.3091**	0.0016	0.5088
Thallium	205	0.3066	0.3238	0.3068	**0.3124**	0.0099	3.156
Vanadium	51	49.01	49.45	49.12	**49.19**	0.2284	0.4643

Internal Standard Factors:

Lithium	6	0.984	0.992	0.992	**0.984**	n/a	n/a
Rhodium	103	1.05	1.049	1.05	**1.05**	n/a	n/a
Indium	115	1.01	1.017	1.018	**1.01**	n/a	n/a
Lutetium	175	0.96	0.98	0.967	**0.96**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 11:36					
Arsenic	75	3.113	3.047	3.082	**3.081**	0.0333	1.081
Beryllium	9	0.2463	0.248	0.262	**0.2521**	0.0086	3.418
Cadmium	111	1.585	1.499	1.519	**1.534**	0.0449	2.929
Cadmium	114	1.672	1.696	1.709	**1.692**	0.0189	1.116
Cobalt	59	3.588	3.612	3.591	**3.597**	0.0127	0.3542
Lead	206	94.99	96.65	96.86	**96.17**	1.023	1.064
Lead	207	105.6	107.7	108.6	**107.3**	1.53	1.426
Lead	208	101.8	103.5	103.9	**103**	1.099	1.066
Molybdenum	95	0.5527	0.5335	0.543	**0.5431**	0.0096	1.765
Molybdenum	97	0.5467	0.516	0.5555	**0.5394**	0.0207	3.846
Molybdenum	98	0.51	0.5283	0.5374	**0.5252**	0.014	2.657
Nickel	60	12.43	12.24	12.34	**12.33**	0.0922	0.7473
Nickel	62	13.62	12.55	11.93	**12.7**	0.8534	6.72
Selenium	77	1.118	1.428	1.559	**1.369**	0.2264	16.55
Selenium	78	0.6692	0.1929	0.2777	**0.3799**	0.2541	66.87
Selenium	82	0.8524	0.7878	1.053	**0.8977**	0.1383	15.4
Thallium	203	0.0779	0.0819	0.0807	**0.0802**	0.002	2.53
Thallium	205	0.0763	0.0819	0.0821	**0.0801**	0.0033	4.089
Vanadium	51	11.52	10.64	11.14	**11.1**	0.444	4

Internal Standard Factors:

Lithium	6	1.048	1.002	0.984	**1.048**	n/a	n/a
Rhodium	103	1.041	1.016	1.017	**1.041**	n/a	n/a
Indium	115	1.027	1.013	1	**1.027**	n/a	n/a
Lutetium	175	0.976	0.979	0.981	**0.976**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/5 +50A			Mean	SD	%RSD
TimeStamp		12/7/09 11:39					
Arsenic	75	56.84	59.82	61.91	**59.52**	2.548	4.281
Beryllium	9	44.14	46.72	45.22	**45.36**	1.296	2.858
Cadmium	111	50.54	52.13	51.79	**51.48**	0.8372	1.626
Cadmium	114	51.81	53.61	53.94	**53.12**	1.148	2.161
Cobalt	59	61.12	64.24	63.36	**62.91**	1.61	2.558
Lead	206	463.9	476.3	481.8	**474**	9.136	1.927
Lead	207	514.9	527.9	534	**525.6**	9.719	1.849
Lead	208	476	490.5	495.7	**487.4**	10.21	2.094
Molybdenum	95	49.14	51.6	52.26	**51**	1.646	3.226
Molybdenum	97	49.56	52.21	53.29	**51.69**	1.918	3.711
Molybdenum	98	49.64	52.3	52.88	**51.6**	1.726	3.345
Nickel	60	98.17	100.6	99.92	**99.58**	1.275	1.28
Nickel	62	98.75	101.7	103.7	**101.4**	2.5	2.466
Selenium	77	49.07	50.56	51.79	**50.47**	1.361	2.697
Selenium	78	48.61	50.6	50.29	**49.83**	1.068	2.144
Selenium	82	48.84	52.98	52.88	**51.56**	2.362	4.581
Thallium	203	45.76	45.72	46.94	**46.14**	0.6919	1.5
Thallium	205	45.54	46.71	46.97	**46.41**	0.7629	1.644
Vanadium	51	98.14	98.84	96.43	**97.8**	1.239	1.267

Internal Standard Factors:

Lithium	6	0.949	0.953	0.965	**0.949**	n/a	n/a
Rhodium	103	1.016	1.032	1.039	**1.016**	n/a	n/a
Indium	115	0.965	0.969	0.972	**0.965**	n/a	n/a
Lutetium	175	0.942	0.949	0.963	**0.942**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911037-001 1/25S**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 11:42**					
Arsenic	75	40.69	40.81	40.67	**40.73**	0.0773	0.1897
Beryllium	9	3.961	4.058	4.021	**4.013**	0.0487	1.214
Cadmium	111	5.246	5.442	5.374	**5.354**	0.0996	1.86
Cadmium	114	5.395	5.53	5.551	**5.492**	0.0849	1.547
Cobalt	59	39.35	40.5	40.44	**40.09**	0.6478	1.616
Lead	206	124.6	125.5	124.2	**124.7**	0.6626	0.5313
Lead	207	140.7	143.3	142.2	**142.1**	1.304	0.9179
Lead	208	132.6	135.9	134.3	**134.3**	1.668	1.242
Molybdenum	95	34.9	36.03	36.84	**35.92**	0.9701	2.701
Molybdenum	97	35.1	36.64	37.13	**36.29**	1.059	2.919
Molybdenum	98	35.1	36.77	37.25	**36.37**	1.128	3.101
Nickel	60	48.47	47.41	48.07	**47.98**	0.5341	1.113
Nickel	62	47.31	48.54	48.5	**48.12**	0.6997	1.454
Selenium	77	40.61	39.27	41.44	**40.44**	1.092	2.701
Selenium	78	40	39.5	40.18	**39.89**	0.3513	0.8806
Selenium	82	41.43	39.71	42.05	**41.06**	1.214	2.957
Thallium	203	37.1	37.17	37.54	**37.27**	0.2371	0.6362
Thallium	205	37.01	37.52	37.22	**37.25**	0.2583	0.6935
Vanadium	51	48.47	47.28	47.23	**47.66**	0.702	1.473

Internal Standard Factors:

Lithium	6	0.977	0.935	0.955	**0.977**	n/a	n/a
Rhodium	103	0.999	0.993	0.997	**0.999**	n/a	n/a
Indium	115	0.984	0.992	0.989	**0.984**	n/a	n/a
Lutetium	175	0.952	0.963	0.966	**0.952**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911037-002 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 11:45**					
Arsenic	75	10.71	11.04	10.63	**10.79**	0.2172	2.012
Beryllium	9	0.9048	0.9776	0.9665	**0.9496**	0.0392	4.127
Cadmium	111	4.617	4.64	4.629	**4.629**	0.0117	0.2525
Cadmium	114	5.265	5.338	5.449	**5.351**	0.0923	1.725
Cobalt	59	13.41	13.41	13.29	**13.37**	0.0683	0.5106
Lead	206	267.8	271.9	269	**269.6**	2.113	0.7839
Lead	207	297.6	301.3	298.3	**299.1**	1.956	0.6541
Lead	208	286.5	288.6	288.5	**287.9**	1.168	0.4059
Molybdenum	95	3.079	2.871	2.562	**2.837**	0.2601	9.167
Molybdenum	97	3.127	2.84	2.532	**2.833**	0.2978	10.51
Molybdenum	98	3.08	2.759	2.536	**2.792**	0.2736	9.799
Nickel	60	44.46	44.56	43.47	**44.16**	0.6017	1.363
Nickel	62	45.15	46.83	44.68	**45.55**	1.135	2.491
Selenium	77	3.393	3.38	3.57	**3.448**	0.1061	3.077
Selenium	78	0.9939	0.8546	0.454	**0.7675**	0.2803	36.52
Selenium	82	2.098	1.948	1.657	**1.901**	0.2243	11.8
Thallium	203	0.2768	0.2765	0.2685	**0.2739**	0.0047	1.717
Thallium	205	0.277	0.2757	0.2799	**0.2775**	0.0022	0.7889
Vanadium	51	41.22	42.3	39.52	**41.01**	1.4	3.414

Internal Standard Factors:

Lithium	6	0.944	0.992	0.933	**0.944**	n/a	n/a
Rhodium	103	1.041	1.04	1.029	**1.041**	n/a	n/a
Indium	115	0.999	0.998	1.009	**0.999**	n/a	n/a
Lutetium	175	0.955	0.952	0.959	**0.955**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 11:48					
Arsenic	75	11.56	11.82	11.59	**11.66**	0.1417	1.215
Beryllium	9	0.8651	0.9167	0.8085	**0.8635**	0.0541	6.27
Cadmium	111	4.011	3.91	3.95	**3.957**	0.0508	1.284
Cadmium	114	4.871	4.944	4.924	**4.913**	0.038	0.7726
Cobalt	59	13.98	13.55	13.57	**13.7**	0.2429	1.773
Lead	206	345.4	342.6	344.5	**344.2**	1.471	0.4273
Lead	207	386.7	384.7	388.5	**386.6**	1.872	0.4842
Lead	208	367.1	371.8	371.7	**370.2**	2.714	0.733
Molybdenum	95	2.29	2.336	2.289	**2.305**	0.0269	1.165
Molybdenum	97	2.261	2.387	2.355	**2.334**	0.0654	2.803
Molybdenum	98	2.297	2.326	2.287	**2.303**	0.0202	0.8749
Nickel	60	42.48	43.3	42.11	**42.63**	0.6113	1.434
Nickel	62	44.06	45.33	43.36	**44.25**	0.9969	2.253
Selenium	77	2.694	3.065	2.212	**2.657**	0.4278	16.1
Selenium	78	0.7189	0.8644	0.5753	**0.7195**	0.1445	20.09
Selenium	82	1.626	1.926	2.02	**1.857**	0.2061	11.1
Thallium	203	0.2679	0.2595	0.2527	**0.26**	0.0076	2.927
Thallium	205	0.2573	0.242	0.2456	**0.2483**	0.008	3.23
Vanadium	51	48.89	51.39	47.32	**49.2**	2.053	4.173

Internal Standard Factors:

Lithium	6	1.019	1.076	0.991	**1.019**	n/a	n/a
Rhodium	103	1.044	1.054	1.049	**1.044**	n/a	n/a
Indium	115	1.017	1.003	1.001	**1.017**	n/a	n/a
Lutetium	175	0.975	0.978	0.976	**0.975**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 11:51					
Arsenic	75	6.414	6.372	6.213	**6.333**	0.106	1.674
Beryllium	9	0.3797	0.4048	0.3983	**0.3943**	0.0131	3.31
Cadmium	111	2.928	2.924	2.863	**2.905**	0.0365	1.258
Cadmium	114	3.523	3.629	3.572	**3.575**	0.0528	1.476
Cobalt	59	8.786	8.657	8.676	**8.706**	0.0699	0.8023
Lead	206	397.7	394.1	397.5	**396.4**	1.998	0.5041
Lead	207	441.1	441.1	449.7	**444**	4.992	1.124
Lead	208	422.8	420.3	428.3	**423.8**	4.085	0.9639
Molybdenum	95	1.939	1.956	1.95	**1.948**	0.0089	0.4564
Molybdenum	97	2.003	1.922	1.889	**1.938**	0.0586	3.021
Molybdenum	98	1.936	1.974	1.896	**1.935**	0.0386	1.993
Nickel	60	26.94	26.74	26.68	**26.79**	0.1356	0.5062
Nickel	62	27.06	27.23	26.51	**26.94**	0.3764	1.397
Selenium	77	1.51	1.463	1.701	**1.558**	0.1257	8.069
Selenium	78	0.3993	0.215	0.0514	**0.2219**	0.1741	78.46
Selenium	82	1.067	1.081	0.9489	**1.032**	0.0726	7.03
Thallium	203	0.2252	0.2292	0.2231	**0.2258**	0.0031	1.366
Thallium	205	0.2216	0.2196	0.2218	**0.221**	0.0012	0.5479
Vanadium	51	16.23	15.95	16.33	**16.17**	0.195	1.206

Internal Standard Factors:

Lithium	6	0.966	0.972	0.957	**0.966**	n/a	n/a
Rhodium	103	1.03	1.006	1.011	**1.03**	n/a	n/a
Indium	115	1.003	0.985	0.983	**1.003**	n/a	n/a
Lutetium	175	0.955	0.95	0.958	**0.955**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV2			Mean	SD	%RSD
TimeStamp		12/7/09 11:54					
Arsenic	75	23.53	25.29	25.03	**24.61**	0.9516	3.866
Beryllium	9	24.18	26.83	27.52	**26.18**	1.766	6.748
Cadmium	111	23.77	25.35	25.22	**24.78**	0.8818	3.559
Cadmium	114	23.93	25.22	25.55	**24.9**	0.8553	3.435
Cobalt	59	23.18	24.85	24.95	**24.33**	0.9924	4.079
Lead	206	24.15	25.14	25.81	**25.03**	0.8382	3.348
Lead	207	24.11	25.02	25.59	**24.91**	0.7482	3.004
Lead	208	24.22	25.17	25.82	**25.07**	0.8008	3.194
Molybdenum	95	23.29	25.48	25.23	**24.67**	1.2	4.865
Molybdenum	97	23.51	25.71	25.62	**24.95**	1.242	4.98
Molybdenum	98	23.6	25.58	25.44	**24.87**	1.108	4.456
Nickel	60	23.05	25.24	25.81	**24.7**	1.458	5.903
Nickel	62	22.94	25.39	25.05	**24.46**	1.33	5.436
Selenium	77	24.05	26.01	25.24	**25.1**	0.9873	3.934
Selenium	78	23.88	25.4	25.79	**25.02**	1.01	4.036
Selenium	82	23.32	25.53	25.39	**24.75**	1.238	5.001
Thallium	203	24.37	25.07	25.65	**25.03**	0.6442	2.574
Thallium	205	24.51	25.37	25.75	**25.21**	0.6361	2.523
Vanadium	51	24.22	25.54	25.75	**25.17**	0.8278	3.288

Internal Standard Factors:

Lithium	6	0.98	1.01	1.085	**0.98**	n/a	n/a
Rhodium	103	0.979	1.008	0.997	**0.979**	n/a	n/a
Indium	115	0.988	0.993	1	**0.988**	n/a	n/a
Lutetium	175	0.957	0.973	0.993	**0.957**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB2			Mean	SD	%RSD
TimeStamp		12/7/09 11:58					
Arsenic	75	-0.0464	0.0206	-0.1142	**-0.0467**	0.0674	144.4
Beryllium	9	0.02	0.0038	0.0054	**0.0097**	0.0089	91.95
Cadmium	111	0.0045	0.0066	0.009	**0.0067**	0.0022	33.41
Cadmium	114	0.004	0.0043	0.0108	**0.0064**	0.0038	60.08
Cobalt	59	0.006	0.0091	0.0089	**0.008**	0.0017	21.5
Lead	206	0.0351	0.0417	0.0526	**0.0432**	0.0088	20.47
Lead	207	0.0263	0.0434	0.063	**0.0442**	0.0184	41.56
Lead	208	0.027	0.0392	0.0629	**0.043**	0.0183	42.46
Molybdenum	95	0.2944	0.1847	0.1222	**0.2004**	0.0872	43.5
Molybdenum	97	0.2807	0.1797	0.1214	**0.1939**	0.0806	41.55
Molybdenum	98	0.2942	0.2107	0.1459	**0.2169**	0.0744	34.28
Nickel	60	0.0217	-0.0079	0.0146	**0.0095**	0.0155	163
Nickel	62	0.0092	0.0257	0.0264	**0.0204**	0.0097	47.72
Selenium	77	0.2728	0.043	0.2021	**0.1727**	0.1177	68.17
Selenium	78	-0.1992	-0.7792	-0.2086	**-0.3957**	0.3322	83.95
Selenium	82	-0.0876	0.0385	-0.3929	**-0.1473**	0.2218	150.6
Thallium	203	0.0124	0.0165	0.0173	**0.0154**	0.0026	17.06
Thallium	205	0.0155	0.0153	0.0124	**0.0144**	0.0017	12.16
Vanadium	51	0.0061	-0.0106	-0.0113	**-0.0053**	0.0098	186.6

Internal Standard Factors:

Lithium	6	1	0.969	0.999	**1**	n/a	n/a
Rhodium	103	1.046	1.031	1.004	**1.046**	n/a	n/a
Indium	115	1.035	1.026	1.012	**1.035**	n/a	n/a
Lutetium	175	1.004	0.999	1.004	**1.004**	n/a	n/a

Instrument ID: K-ICP-MS-02 | **Method: EPA 6020**
Experiment: 12-07-09B | **Analyst: Greg Jasper**
Units: µg/L (ppb) | **STARLIMS #182068**

Sample Name:		**K0911037-005 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:01**					
Arsenic	75	17.2	16.99	16.67	**16.95**	0.2633	1.553
Beryllium	9	1.264	1.192	1.126	**1.194**	0.0693	5.803
Cadmium	111	13.64	13.86	13.45	**13.65**	0.2044	1.498
Cadmium	114	14.61	14.86	14.71	**14.72**	0.1243	0.8444
Cobalt	59	23.1	22.61	21.82	**22.51**	0.6474	2.876
Lead	206	746.7	761.8	759	**755.8**	8.012	1.06
Lead	207	838.5	847.2	846.1	**843.9**	4.717	0.5589
Lead	208	777.9	785.7	781.3	**781.7**	3.906	0.4997
Molybdenum	95	5.325	5.343	5.278	**5.315**	0.0333	0.6262
Molybdenum	97	5.445	5.368	5.427	**5.413**	0.0404	0.7463
Molybdenum	98	5.389	5.351	5.339	**5.36**	0.0259	0.4837
Nickel	60	96.78	99.48	94.27	**96.85**	2.604	2.689
Nickel	62	96.8	98.25	94.59	**96.55**	1.844	1.91
Selenium	77	4.152	4.185	3.935	**4.091**	0.1356	3.314
Selenium	78	1.473	1.344	0.796	**1.204**	0.3596	29.86
Selenium	82	2.535	2.611	2.745	**2.63**	0.1067	4.057
Thallium	203	0.48	0.4707	0.5009	**0.4839**	0.0155	3.204
Thallium	205	0.4883	0.4879	0.5043	**0.4935**	0.0093	1.891
Vanadium	51	50.56	50.69	51.5	**50.92**	0.5077	0.997

Internal Standard Factors:

Lithium	6	0.976	0.974	0.957	**0.976**	n/a	n/a
Rhodium	103	1.064	1.046	1.046	**1.064**	n/a	n/a
Indium	115	1.004	1.008	0.999	**1.004**	n/a	n/a
Lutetium	175	0.972	0.971	0.971	**0.972**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:04					
Arsenic	75	8.018	8.279	8.193	**8.164**	0.1328	1.627
Beryllium	9	0.6878	0.707	0.6945	**0.6964**	0.0097	1.397
Cadmium	111	3.622	3.696	3.642	**3.653**	0.0382	1.047
Cadmium	114	4.474	4.464	4.553	**4.497**	0.0488	1.086
Cobalt	59	12.94	12.71	12.5	**12.72**	0.2242	1.763
Lead	206	608.7	620.9	612.3	**614**	6.26	1.02
Lead	207	686.4	700	694.4	**693.6**	6.855	0.9883
Lead	208	640.9	650.5	643.7	**645**	4.927	0.7639
Molybdenum	95	1.93	1.998	1.923	**1.95**	0.0412	2.111
Molybdenum	97	1.991	2.013	1.982	**1.995**	0.0163	0.8147
Molybdenum	98	1.908	1.93	1.918	**1.918**	0.011	0.5717
Nickel	60	36.26	36.31	36.33	**36.3**	0.0331	0.0913
Nickel	62	37.03	37.36	36.52	**36.97**	0.4224	1.142
Selenium	77	2.666	2.457	2.156	**2.427**	0.2561	10.56
Selenium	78	0.3397	0.4476	0.7795	**0.5223**	0.2292	43.88
Selenium	82	1.495	1.285	1.735	**1.505**	0.2251	14.96
Thallium	203	0.2761	0.2788	0.2761	**0.277**	0.0015	0.5553
Thallium	205	0.2689	0.2829	0.2816	**0.2778**	0.0077	2.788
Vanadium	51	34.63	33.84	33.87	**34.11**	0.4503	1.32

Internal Standard Factors:

Lithium	6	1.021	1.023	1.019	**1.021**	n/a	n/a
Rhodium	103	1.05	1.037	1.025	**1.05**	n/a	n/a
Indium	115	1.021	1.007	1.005	**1.021**	n/a	n/a
Lutetium	175	0.968	0.971	0.964	**0.968**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:07					
Arsenic	75	3.867	3.784	3.7	**3.784**	0.0836	2.208
Beryllium	9	0.3911	0.418	0.3868	**0.3986**	0.0169	4.244
Cadmium	111	1.265	1.289	1.245	**1.266**	0.0221	1.748
Cadmium	114	1.577	1.611	1.557	**1.582**	0.0275	1.74
Cobalt	59	8.388	8.217	8.014	**8.206**	0.1871	2.279
Lead	206	203.7	204.5	198.3	**202.2**	3.359	1.661
Lead	207	221.3	228.6	220.4	**223.4**	4.48	2.005
Lead	208	213.6	217.5	213	**214.7**	2.446	1.139
Molybdenum	95	0.8162	0.8432	0.8482	**0.8358**	0.0172	2.056
Molybdenum	97	0.8397	0.7462	0.7718	**0.7859**	0.0483	6.149
Molybdenum	98	0.7963	0.8217	0.8158	**0.8113**	0.0132	1.633
Nickel	60	30.29	29.29	29.61	**29.73**	0.5109	1.718
Nickel	62	30.09	30.62	28.77	**29.82**	0.9506	3.187
Selenium	77	0.99	0.9303	1.195	**1.038**	0.1386	13.35
Selenium	78	0.0642	-0.1168	-0.4068	**-0.1531**	0.2376	155.1
Selenium	82	0.4585	0.2919	0.3137	**0.3547**	0.0905	25.53
Thallium	203	0.158	0.1389	0.1524	**0.1497**	0.0098	6.565
Thallium	205	0.1553	0.1575	0.1434	**0.1521**	0.0076	5.007
Vanadium	51	18.96	18.63	18.22	**18.6**	0.3674	1.975

Internal Standard Factors:

Lithium	6	1.009	0.979	0.983	**1.009**	n/a	n/a
Rhodium	103	1.05	1.022	1.023	**1.05**	n/a	n/a
Indium	115	1.017	1.01	1.015	**1.017**	n/a	n/a
Lutetium	175	0.976	0.983	0.972	**0.976**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911037-008 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:10**					
Arsenic	75	14.46	14.71	14.58	**14.58**	0.1225	0.8397
Beryllium	9	1.162	1.081	1.073	**1.105**	0.0492	4.454
Cadmium	111	5.479	5.494	5.588	**5.52**	0.0589	1.067
Cadmium	114	6.733	6.732	6.803	**6.756**	0.041	0.607
Cobalt	59	15.3	14.82	15.29	**15.14**	0.2734	1.806
Lead	206	313.5	315.6	317.1	**315.4**	1.818	0.5764
Lead	207	350.8	349.3	353.6	**351.2**	2.144	0.6104
Lead	208	336.1	334.9	338.8	**336.6**	2.001	0.5946
Molybdenum	95	2.658	2.7	2.753	**2.704**	0.0479	1.771
Molybdenum	97	2.689	2.753	2.717	**2.72**	0.0318	1.17
Molybdenum	98	2.702	2.672	2.684	**2.686**	0.0149	0.5558
Nickel	60	50.57	51.27	50.03	**50.62**	0.6224	1.23
Nickel	62	52.96	51.71	52.24	**52.3**	0.6272	1.199
Selenium	77	4.134	3.568	4.156	**3.953**	0.3337	8.441
Selenium	78	1.063	2.019	1.025	**1.369**	0.5635	41.16
Selenium	82	2.503	2.671	2.647	**2.607**	0.0905	3.47
Thallium	203	0.3248	0.3311	0.3149	**0.3236**	0.0082	2.523
Thallium	205	0.3261	0.3215	0.3327	**0.3268**	0.0056	1.721
Vanadium	51	50.56	50.26	50.34	**50.39**	0.1516	0.3009

Internal Standard Factors:

Lithium	6	0.999	1.017	0.99	**0.999**	n/a	n/a
Rhodium	103	1.067	1.058	1.058	**1.067**	n/a	n/a
Indium	115	1.024	1.01	1.011	**1.024**	n/a	n/a
Lutetium	175	0.967	0.957	0.97	**0.967**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-009 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:13					
Arsenic	75	15.47	15.32	15.45	**15.41**	0.0836	0.5422
Beryllium	9	1.126	1.112	1.215	**1.151**	0.0557	4.842
Cadmium	111	5.558	5.451	5.491	**5.5**	0.0543	0.9878
Cadmium	114	6.574	6.455	6.573	**6.534**	0.0689	1.055
Cobalt	59	15.93	15.93	16.11	**15.99**	0.101	0.6315
Lead	206	333.1	328	325.3	**328.8**	3.971	1.208
Lead	207	370.1	368.3	364	**367.4**	3.167	0.8618
Lead	208	356.8	352	347.6	**352.1**	4.573	1.299
Molybdenum	95	2.538	2.551	2.553	**2.547**	0.0081	0.3166
Molybdenum	97	2.505	2.581	2.644	**2.577**	0.0696	2.699
Molybdenum	98	2.566	2.584	2.528	**2.559**	0.0287	1.122
Nickel	60	53.95	53.09	52.47	**53.17**	0.7459	1.403
Nickel	62	54.61	53.24	54.2	**54.02**	0.7034	1.302
Selenium	77	4.195	4.226	3.897	**4.106**	0.1816	4.422
Selenium	78	0.9011	0.8653	1.496	**1.088**	0.3545	32.6
Selenium	82	2.703	2.588	2.457	**2.583**	0.1228	4.754
Thallium	203	0.3383	0.3389	0.3461	**0.3411**	0.0043	1.273
Thallium	205	0.3429	0.3327	0.3364	**0.3373**	0.0052	1.542
Vanadium	51	49.73	51.27	50.84	**50.61**	0.7954	1.572

Internal Standard Factors:

Lithium	6	0.966	0.962	0.983	**0.966**	n/a	n/a
Rhodium	103	1.067	1.038	1.053	**1.067**	n/a	n/a
Indium	115	1.032	1.005	1	**1.032**	n/a	n/a
Lutetium	175	0.974	0.961	0.959	**0.974**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:16					
Arsenic	75	2.799	2.775	2.354	**2.642**	0.2504	9.474
Beryllium	9	0.418	0.4356	0.3962	**0.4166**	0.0198	4.741
Cadmium	111	0.5329	0.5762	0.5089	**0.5393**	0.0341	6.322
Cadmium	114	0.8833	1.004	0.8775	**0.9216**	0.0714	7.75
Cobalt	59	7.007	7.538	6.677	**7.074**	0.4344	6.141
Lead	206	318.2	333.7	298.2	**316.7**	17.79	5.615
Lead	207	352.6	375.3	322.8	**350.2**	26.32	7.514
Lead	208	338.9	357.9	312.8	**336.5**	22.65	6.732
Molybdenum	95	0.7823	0.9002	0.7567	**0.8131**	0.0765	9.412
Molybdenum	97	0.8017	0.8786	0.7702	**0.8168**	0.0558	6.827
Molybdenum	98	0.7766	0.8595	0.7564	**0.7975**	0.0547	6.852
Nickel	60	28.42	31.51	26.85	**28.93**	2.373	8.205
Nickel	62	29.47	31.53	26.66	**29.22**	2.444	8.365
Selenium	77	0.9637	1.488	0.9493	**1.134**	0.3069	27.07
Selenium	78	-0.3057	0.1959	-0.2221	**-0.1107**	0.2687	242.8
Selenium	82	0.6465	0.4351	-0.0304	**0.3504**	0.3463	98.83
Thallium	203	0.0691	0.0784	0.067	**0.0715**	0.006	8.458
Thallium	205	0.0702	0.0725	0.0625	**0.0684**	0.0053	7.718
Vanadium	51	22.4	23.76	20.58	**22.25**	1.596	7.172

Internal Standard Factors:

Lithium	6	0.955	0.96	0.925	**0.955**	n/a	n/a
Rhodium	103	1.019	1.06	1.012	**1.019**	n/a	n/a
Indium	115	1.012	1.046	0.999	**1.012**	n/a	n/a
Lutetium	175	0.97	0.998	0.955	**0.97**	n/a	n/a

Instrument ID: K-ICP-MS-02 | **Method: EPA 6020**
Experiment: 12-07-09B | **Analyst: Greg Jasper**
Units: µg/L (ppb) | **STARLIMS #182068**

Sample Name:		**K0911037-011 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:19**					
Arsenic	75	8.821	8.943	9.001	**8.922**	0.0917	1.028
Beryllium	9	0.7932	0.8521	0.8112	**0.8188**	0.0302	3.687
Cadmium	111	4.039	4.025	4.013	**4.026**	0.0127	0.3158
Cadmium	114	5.013	5.086	5.064	**5.054**	0.0371	0.7346
Cobalt	59	13.69	13.62	13.75	**13.69**	0.065	0.4747
Lead	206	278.4	282	278.3	**279.5**	2.095	0.7493
Lead	207	309.7	317.1	318	**314.9**	4.576	1.453
Lead	208	296.2	303.7	299.2	**299.7**	3.8	1.268
Molybdenum	95	2.376	2.356	2.353	**2.362**	0.0125	0.5291
Molybdenum	97	2.301	2.392	2.388	**2.361**	0.0514	2.178
Molybdenum	98	2.315	2.371	2.35	**2.345**	0.0282	1.2
Nickel	60	39.69	39.85	40.87	**40.14**	0.6437	1.604
Nickel	62	40.64	40.53	41.78	**40.98**	0.6913	1.687
Selenium	77	3.02	2.901	3.308	**3.077**	0.2093	6.804
Selenium	78	0.8267	0.9457	0.7336	**0.8353**	0.1063	12.72
Selenium	82	1.755	1.575	1.853	**1.728**	0.1405	8.133
Thallium	203	0.2579	0.2663	0.2452	**0.2565**	0.0107	4.155
Thallium	205	0.2532	0.2507	0.2476	**0.2505**	0.0028	1.121
Vanadium	51	42.1	42.04	40.9	**41.68**	0.677	1.624

Internal Standard Factors:

Lithium	6	0.909	0.938	0.943	**0.909**	n/a	n/a
Rhodium	103	1.05	1.041	1.048	**1.05**	n/a	n/a
Indium	115	1.004	1.008	1.001	**1.004**	n/a	n/a
Lutetium	175	0.949	0.965	0.963	**0.949**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-012 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:22					
Arsenic	75	8.33	8.182	8.215	**8.242**	0.0778	0.9438
Beryllium	9	0.72	0.752	0.7617	**0.7446**	0.0218	2.929
Cadmium	111	3.172	3.215	3.092	**3.16**	0.0624	1.975
Cadmium	114	4.124	4.061	4.083	**4.089**	0.0318	0.7769
Cobalt	59	12.32	11.71	11.86	**11.96**	0.3192	2.669
Lead	206	624.3	621.5	607.3	**617.7**	9.079	1.47
Lead	207	712	710.3	693.6	**705.3**	10.18	1.444
Lead	208	656.3	658.8	641.3	**652.1**	9.508	1.458
Molybdenum	95	2.938	2.998	2.958	**2.965**	0.0307	1.034
Molybdenum	97	2.955	2.991	2.902	**2.949**	0.0446	1.511
Molybdenum	98	2.959	2.959	2.967	**2.962**	0.0044	0.1494
Nickel	60	39.21	39.37	38.22	**38.93**	0.6229	1.6
Nickel	62	40.76	40.58	39.79	**40.38**	0.5203	1.289
Selenium	77	2.526	2.444	2.561	**2.51**	0.0601	2.393
Selenium	78	0.5772	0.5052	0.7127	**0.5984**	0.1054	17.61
Selenium	82	1.496	0.9936	1.446	**1.312**	0.2766	21.09
Thallium	203	0.2578	0.2349	0.2328	**0.2418**	0.0139	5.728
Thallium	205	0.2423	0.2419	0.2406	**0.2416**	0.0009	0.3685
Vanadium	51	34.31	33.4	33.49	**33.73**	0.5024	1.489

Internal Standard Factors:

Lithium	6	1.033	1.076	1.027	**1.033**	n/a	n/a
Rhodium	103	1.058	1.036	1.049	**1.058**	n/a	n/a
Indium	115	1.021	1.016	1.018	**1.021**	n/a	n/a
Lutetium	175	0.984	0.975	0.973	**0.984**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-013 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:25					
Arsenic	75	14.65	14.49	14.35	**14.5**	0.1523	1.051
Beryllium	9	0.9583	0.956	1.004	**0.9729**	0.0272	2.799
Cadmium	111	4.101	4.098	4.079	**4.093**	0.0121	0.2962
Cadmium	114	5.33	5.201	5.211	**5.248**	0.0715	1.362
Cobalt	59	13.69	13.62	13.13	**13.48**	0.3035	2.252
Lead	206	289.7	290.2	285.7	**288.5**	2.487	0.8618
Lead	207	327.1	322	320	**323**	3.629	1.123
Lead	208	311.1	311.1	307.2	**309.8**	2.252	0.727
Molybdenum	95	2.141	2.125	2.088	**2.118**	0.027	1.274
Molybdenum	97	2.172	2.092	2.06	**2.108**	0.0577	2.739
Molybdenum	98	2.093	2.047	2.089	**2.076**	0.0256	1.231
Nickel	60	48.5	46.45	46.82	**47.25**	1.094	2.314
Nickel	62	48.93	46.55	48.59	**48.02**	1.286	2.678
Selenium	77	3.311	3.418	3.303	**3.344**	0.0642	1.921
Selenium	78	1.564	0.7518	1.149	**1.155**	0.4061	35.16
Selenium	82	2.266	2.051	2.551	**2.289**	0.2509	10.96
Thallium	203	0.2674	0.2794	0.2447	**0.2638**	0.0176	6.681
Thallium	205	0.2614	0.2549	0.2526	**0.2563**	0.0045	1.772
Vanadium	51	42.39	42.06	43.95	**42.8**	1.007	2.353

Internal Standard Factors:

Lithium	6	0.96	0.953	0.978	**0.96**	n/a	n/a
Rhodium	103	1.069	1.052	1.057	**1.069**	n/a	n/a
Indium	115	1.027	1.007	1.007	**1.027**	n/a	n/a
Lutetium	175	0.963	0.962	0.947	**0.963**	n/a	n/a

Instrument ID: K-ICP-MS-02 | **Method: EPA 6020**
Experiment: 12-07-09B | **Analyst: Greg Jasper**
Units: µg/L (ppb) | **STARLIMS #182068**

Sample Name:		**K0911037-014 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:29**					
Arsenic	75	16.77	17.2	16.98	**16.98**	0.2139	1.26
Beryllium	9	1.056	1.138	1.076	**1.09**	0.0428	3.923
Cadmium	111	4.621	4.73	4.711	**4.687**	0.0582	1.241
Cadmium	114	5.676	5.592	5.806	**5.691**	0.1079	1.895
Cobalt	59	15.18	15.06	15.43	**15.22**	0.1907	1.253
Lead	206	314.8	316.5	315.5	**315.6**	0.8554	0.271
Lead	207	350.3	353.3	356.6	**353.4**	3.179	0.8995
Lead	208	337.4	338.7	340.9	**339**	1.794	0.5292
Molybdenum	95	2.3	2.339	2.349	**2.329**	0.0255	1.094
Molybdenum	97	2.281	2.29	2.31	**2.294**	0.0146	0.6368
Molybdenum	98	2.297	2.256	2.266	**2.273**	0.0215	0.9463
Nickel	60	49.82	51.9	51.03	**50.92**	1.046	2.055
Nickel	62	52.02	53	51.48	**52.17**	0.77	1.476
Selenium	77	3.833	4.044	3.966	**3.947**	0.1066	2.702
Selenium	78	0.6191	0.5305	1.197	**0.7823**	0.3621	46.29
Selenium	82	2.478	2.671	2.777	**2.642**	0.1519	5.749
Thallium	203	0.3006	0.3211	0.3177	**0.3131**	0.011	3.517
Thallium	205	0.2991	0.3001	0.3006	**0.2999**	0.0007	0.2492
Vanadium	51	47.7	48.85	48.66	**48.4**	0.6155	1.272

Internal Standard Factors:

Lithium	6	0.934	0.975	0.96	**0.934**	n/a	n/a
Rhodium	103	1.059	1.046	1.053	**1.059**	n/a	n/a
Indium	115	1.03	1.007	1.016	**1.03**	n/a	n/a
Lutetium	175	0.951	0.965	0.974	**0.951**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV3			Mean	SD	%RSD
TimeStamp		12/7/09 12:32					
Arsenic	75	23.98	25.01	24.27	**24.42**	0.5309	2.174
Beryllium	9	24.7	25.98	24.97	**25.22**	0.675	2.677
Cadmium	111	24.29	25.14	24.95	**24.79**	0.4485	1.809
Cadmium	114	24.11	25.26	24.96	**24.77**	0.5973	2.411
Cobalt	59	23.47	24.55	23.79	**23.94**	0.555	2.319
Lead	206	24.31	25.11	25.19	**24.87**	0.4838	1.946
Lead	207	24.47	25.46	25.21	**25.05**	0.5154	2.058
Lead	208	24.41	25.13	25.09	**24.88**	0.4041	1.624
Molybdenum	95	23.7	25.15	25.17	**24.67**	0.8411	3.409
Molybdenum	97	23.8	24.83	25.04	**24.55**	0.6638	2.703
Molybdenum	98	23.81	24.81	25.06	**24.56**	0.6604	2.689
Nickel	60	23.31	24.98	24.3	**24.2**	0.8371	3.46
Nickel	62	23.12	25.18	23.81	**24.04**	1.051	4.372
Selenium	77	23.79	25.38	24.57	**24.58**	0.7975	3.245
Selenium	78	23.78	24.95	24.83	**24.52**	0.645	2.631
Selenium	82	25.14	25.29	25.42	**25.29**	0.1396	0.5522
Thallium	203	24.51	25.1	24.9	**24.84**	0.2992	1.205
Thallium	205	24.66	24.93	24.93	**24.84**	0.1555	0.6261
Vanadium	51	23.74	24.96	24.43	**24.38**	0.609	2.498

Internal Standard Factors:

Lithium	6	0.981	1.029	0.977	**0.981**	n/a	n/a
Rhodium	103	0.996	0.991	0.996	**0.996**	n/a	n/a
Indium	115	0.994	1.004	0.994	**0.994**	n/a	n/a
Lutetium	175	0.978	0.984	0.986	**0.978**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB3			Mean	SD	%RSD
TimeStamp		12/7/09 12:35					
Arsenic	75	-0.0921	-0.036	-0.0413	**-0.0565**	0.031	54.89
Beryllium	9	0.0029	0.0075	0.0033	**0.0045**	0.0026	56.37
Cadmium	111	0.0077	0.0049	0.0054	**0.006**	0.0015	25.16
Cadmium	114	0.0047	0.0048	0.0113	**0.0069**	0.0037	53.79
Cobalt	59	0.0057	0.0074	0.0122	**0.0084**	0.0034	40.08
Lead	206	0.035	0.0333	0.0641	**0.0441**	0.0174	39.32
Lead	207	0.0221	0.0518	0.0522	**0.042**	0.0172	41.03
Lead	208	0.0319	0.0414	0.0575	**0.0436**	0.0129	29.66
Molybdenum	95	0.2336	0.1648	0.0991	**0.1658**	0.0672	40.54
Molybdenum	97	0.2269	0.1691	0.112	**0.1693**	0.0575	33.95
Molybdenum	98	0.2533	0.1615	0.1096	**0.1748**	0.0728	41.65
Nickel	60	0.0025	0.0067	-0.0036	**0.0019**	0.0052	278.6
Nickel	62	-0.0383	0.0309	-0.0845	**-0.0306**	0.0581	189.5
Selenium	77	0.3436	0.1003	0.1915	**0.2118**	0.1229	58.04
Selenium	78	0.2244	-0.274	-0.222	**-0.0906**	0.274	302.5
Selenium	82	-0.2106	-0.2106	-0.0906	**-0.1706**	0.0693	40.62
Thallium	203	0.016	0.0179	0.0166	**0.0168**	0.001	5.767
Thallium	205	0.0126	0.0184	0.0187	**0.0166**	0.0034	20.82
Vanadium	51	0.0125	0.0025	0.0072	**0.0074**	0.005	67.83

Internal Standard Factors:

Lithium	6	0.986	1.007	0.985	**0.986**	n/a	n/a
Rhodium	103	1.028	1.029	1.015	**1.028**	n/a	n/a
Indium	115	1.036	1.028	1.019	**1.036**	n/a	n/a
Lutetium	175	0.991	1.011	0.993	**0.991**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911037-015 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:38**					
Arsenic	75	10.43	10.72	10.2	**10.45**	0.2605	2.493
Beryllium	9	0.7298	0.7698	0.7496	**0.7498**	0.02	2.667
Cadmium	111	4.96	5.014	4.833	**4.935**	0.0932	1.889
Cadmium	114	6.461	6.409	6.331	**6.4**	0.0658	1.029
Cobalt	59	13.24	13.05	12.81	**13.03**	0.2144	1.645
Lead	206	314.6	321.2	321.6	**319.2**	3.948	1.237
Lead	207	351.9	356.7	355.7	**354.8**	2.49	0.702
Lead	208	337.2	342.6	340.4	**340.1**	2.703	0.7948
Molybdenum	95	2.518	2.502	2.481	**2.5**	0.0182	0.7291
Molybdenum	97	2.526	2.596	2.547	**2.556**	0.0358	1.399
Molybdenum	98	2.56	2.505	2.534	**2.533**	0.0274	1.081
Nickel	60	41.98	41.94	41.32	**41.75**	0.3673	0.8799
Nickel	62	42.77	42.2	42.68	**42.55**	0.3066	0.7206
Selenium	77	3.073	3.007	2.905	**2.995**	0.0846	2.825
Selenium	78	0.2046	0.3203	0.4882	**0.3377**	0.1426	42.23
Selenium	82	2.305	1.931	1.624	**1.954**	0.3411	17.46
Thallium	203	0.2495	0.2598	0.2606	**0.2566**	0.0062	2.406
Thallium	205	0.2677	0.2614	0.2708	**0.2666**	0.0048	1.799
Vanadium	51	36.61	38.34	37.14	**37.36**	0.8842	2.366

Internal Standard Factors:

Lithium	6	0.932	0.956	0.945	**0.932**	n/a	n/a
Rhodium	103	1.052	1.053	1.048	**1.052**	n/a	n/a
Indium	115	1.019	1.01	0.989	**1.019**	n/a	n/a
Lutetium	175	0.963	0.965	0.964	**0.963**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-016 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:41					
Arsenic	75	11.75	12.53	12.17	**12.15**	0.3882	3.195
Beryllium	9	1.272	1.289	1.311	**1.29**	0.0194	1.504
Cadmium	111	8.358	8.279	8.242	**8.293**	0.0588	0.7093
Cadmium	114	9.065	9.168	9.128	**9.12**	0.0522	0.5721
Cobalt	59	14.1	14.21	14.28	**14.2**	0.0896	0.6314
Lead	206	315.4	315.4	319.5	**316.7**	2.345	0.7403
Lead	207	360.2	354.4	354.8	**356.5**	3.263	0.9152
Lead	208	343.1	339.9	341.2	**341.4**	1.589	0.4656
Molybdenum	95	2.81	2.848	2.799	**2.819**	0.0259	0.9197
Molybdenum	97	2.845	2.859	2.849	**2.851**	0.0072	0.2532
Molybdenum	98	2.784	2.857	2.812	**2.818**	0.0369	1.309
Nickel	60	51.85	52.38	51.51	**51.92**	0.4378	0.8432
Nickel	62	53.34	52.32	52.77	**52.81**	0.5092	0.9642
Selenium	77	3.676	2.873	3.377	**3.309**	0.4058	12.26
Selenium	78	1.369	0.9097	1.402	**1.227**	0.2752	22.43
Selenium	82	1.781	1.965	1.857	**1.868**	0.0925	4.951
Thallium	203	0.2725	0.276	0.2582	**0.2689**	0.0094	3.514
Thallium	205	0.2691	0.2662	0.2608	**0.2653**	0.0042	1.592
Vanadium	51	39.97	43.7	40.03	**41.24**	2.138	5.185

Internal Standard Factors:

Lithium	6	0.97	0.999	1.013	**0.97**	n/a	n/a
Rhodium	103	1.055	1.053	1.05	**1.055**	n/a	n/a
Indium	115	1.033	1.022	1.018	**1.033**	n/a	n/a
Lutetium	175	0.979	0.963	0.971	**0.979**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-017 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:44					
Arsenic	75	6.883	7.116	7.1	**7.033**	0.1298	1.846
Beryllium	9	0.4894	0.485	0.4943	**0.4896**	0.0046	0.9494
Cadmium	111	4.01	4.176	4.279	**4.155**	0.1357	3.266
Cadmium	114	4.558	4.817	4.828	**4.735**	0.1526	3.224
Cobalt	59	9.543	9.995	9.888	**9.809**	0.2362	2.408
Lead	206	242.2	256.1	255.8	**251.4**	7.958	3.166
Lead	207	272.2	287.8	288.7	**282.9**	9.257	3.272
Lead	208	260.7	273.9	275	**269.9**	7.917	2.934
Molybdenum	95	1.457	1.589	1.509	**1.518**	0.0667	4.395
Molybdenum	97	1.489	1.541	1.499	**1.509**	0.0276	1.829
Molybdenum	98	1.469	1.517	1.55	**1.512**	0.0403	2.667
Nickel	60	32.4	33.22	32.76	**32.79**	0.4092	1.248
Nickel	62	32.49	33.61	33.39	**33.16**	0.5962	1.798
Selenium	77	1.983	1.685	2.06	**1.909**	0.1983	10.39
Selenium	78	-0.4134	0.2081	0.1949	**-0.0035**	0.3551	10130
Selenium	82	0.7759	0.6204	1.174	**0.8566**	0.2853	33.31
Thallium	203	0.2231	0.2387	0.2236	**0.2285**	0.0089	3.884
Thallium	205	0.2265	0.2178	0.2335	**0.226**	0.0079	3.479
Vanadium	51	26.96	28.74	28.18	**27.96**	0.9062	3.241

Internal Standard Factors:

Lithium	6	0.918	0.931	0.937	**0.918**	n/a	n/a
Rhodium	103	1.015	1.029	1.025	**1.015**	n/a	n/a
Indium	115	0.987	1.007	1	**0.987**	n/a	n/a
Lutetium	175	0.94	0.96	0.97	**0.94**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911037-018 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:47**					
Arsenic	75	11.78	11.64	12.06	**11.83**	0.2118	1.791
Beryllium	9	0.7899	0.8186	0.823	**0.8105**	0.018	2.215
Cadmium	111	4.295	4.114	4.155	**4.188**	0.0947	2.261
Cadmium	114	5.426	5.537	5.527	**5.497**	0.061	1.111
Cobalt	59	12.43	12.27	12.41	**12.37**	0.0843	0.6815
Lead	206	268	265.9	271	**268.3**	2.534	0.9446
Lead	207	301.5	301.1	307.6	**303.4**	3.605	1.188
Lead	208	290.6	286.6	292.5	**289.9**	2.981	1.028
Molybdenum	95	2.561	2.482	2.553	**2.532**	0.0435	1.717
Molybdenum	97	2.529	2.461	2.542	**2.511**	0.0435	1.731
Molybdenum	98	2.466	2.503	2.505	**2.491**	0.0216	0.8669
Nickel	60	36.72	36.57	35.7	**36.33**	0.5516	1.518
Nickel	62	38.07	36.56	36.48	**37.04**	0.8944	2.415
Selenium	77	3.478	2.942	3.132	**3.184**	0.2722	8.548
Selenium	78	1.558	1.103	0.725	**1.129**	0.4172	36.96
Selenium	82	2.142	1.937	2.558	**2.212**	0.3164	14.3
Thallium	203	0.274	0.2584	0.2776	**0.27**	0.0102	3.772
Thallium	205	0.2571	0.2676	0.2735	**0.266**	0.0083	3.121
Vanadium	51	39.26	37.56	38.84	**38.55**	0.8851	2.296

Internal Standard Factors:

Lithium	6	0.964	0.932	0.939	**0.964**	n/a	n/a
Rhodium	103	1.068	1.042	1.05	**1.068**	n/a	n/a
Indium	115	1.037	1.01	0.999	**1.037**	n/a	n/a
Lutetium	175	0.968	0.951	0.966	**0.968**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-019 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:50					
Arsenic	75	2.939	3.057	2.962	**2.986**	0.0624	2.088
Beryllium	9	0.2816	0.2982	0.292	**0.2906**	0.0084	2.888
Cadmium	111	0.4244	0.4298	0.4327	**0.429**	0.0042	0.9799
Cadmium	114	0.7342	0.7534	0.7356	**0.7411**	0.0107	1.443
Cobalt	59	5.05	4.988	5.048	**5.029**	0.0351	0.6987
Lead	206	105.3	107.5	105.7	**106.1**	1.157	1.09
Lead	207	118	121.2	118.6	**119.3**	1.707	1.431
Lead	208	113.1	115.8	113.9	**114.2**	1.384	1.211
Molybdenum	95	0.3073	0.2932	0.3218	**0.3075**	0.0144	4.667
Molybdenum	97	0.3356	0.3182	0.2918	**0.3152**	0.022	6.994
Molybdenum	98	0.3245	0.3062	0.2931	**0.3079**	0.0158	5.119
Nickel	60	12.42	12.65	12.23	**12.43**	0.2098	1.688
Nickel	62	12.56	12.97	12.36	**12.63**	0.3087	2.444
Selenium	77	0.7508	0.8356	0.7469	**0.7777**	0.0501	6.443
Selenium	78	-0.0873	-0.135	-0.5762	**-0.2662**	0.2696	101.3
Selenium	82	0.1146	0.456	0.3326	**0.3011**	0.1728	57.4
Thallium	203	0.076	0.0779	0.0711	**0.075**	0.0035	4.624
Thallium	205	0.0724	0.0663	0.069	**0.0692**	0.003	4.364
Vanadium	51	11.73	11.98	11.49	**11.74**	0.2448	2.086

Internal Standard Factors:

Lithium	6	0.974	1	0.984	**0.974**	n/a	n/a
Rhodium	103	1.051	1.032	1.034	**1.051**	n/a	n/a
Indium	115	1.036	1.025	1.012	**1.036**	n/a	n/a
Lutetium	175	0.981	0.987	0.968	**0.981**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-020 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 12:53					
Arsenic	75	13.73	14.17	13.96	**13.95**	0.216	1.548
Beryllium	9	0.8847	0.936	0.8952	**0.9053**	0.0271	2.991
Cadmium	111	2.651	2.725	2.642	**2.673**	0.0457	1.71
Cadmium	114	3.305	3.352	3.398	**3.352**	0.0463	1.381
Cobalt	59	13.7	13.59	13.64	**13.64**	0.06	0.4398
Lead	206	185.3	182.7	183.1	**183.7**	1.378	0.75
Lead	207	205.7	203.7	203.7	**204.3**	1.178	0.5765
Lead	208	197.8	196.9	196.7	**197.1**	0.5768	0.2926
Molybdenum	95	2.224	2.162	2.202	**2.196**	0.0316	1.44
Molybdenum	97	2.184	2.176	2.23	**2.197**	0.0292	1.328
Molybdenum	98	2.178	2.169	2.205	**2.184**	0.0186	0.852
Nickel	60	45.46	44.48	43.76	**44.57**	0.8523	1.912
Nickel	62	46.52	45.67	44.21	**45.47**	1.17	2.572
Selenium	77	3.302	3.083	3.129	**3.171**	0.1154	3.639
Selenium	78	0.6892	0.8034	0.2815	**0.5914**	0.2744	46.39
Selenium	82	1.173	1.68	2.119	**1.657**	0.4731	28.55
Thallium	203	0.2882	0.287	0.2771	**0.2841**	0.0061	2.132
Thallium	205	0.2908	0.2797	0.285	**0.2852**	0.0056	1.947
Vanadium	51	38.61	40.67	38.46	**39.25**	1.233	3.142

Internal Standard Factors:

Lithium	6	0.929	0.966	0.91	**0.929**	n/a	n/a
Rhodium	103	1.067	1.062	1.042	**1.067**	n/a	n/a
Indium	115	1.04	1.021	1.008	**1.04**	n/a	n/a
Lutetium	175	0.968	0.954	0.942	**0.968**	n/a	n/a

Instrument ID: K-ICP-MS-02 | **Method: EPA 6020**
Experiment: 12-07-09B | **Analyst: Greg Jasper**
Units: µg/L (ppb) | **STARLIMS #182068**

Sample Name:		**K0911120-MB 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 12:56**					
Arsenic	75	-0.0292	-0.018	-0.0009	**-0.0161**	0.0142	88.7
Beryllium	9	-0.0083	-0.0122	-0.008	**-0.0095**	0.0024	24.78
Cadmium	111	-0.002	-0.0022	-0.0005	**-0.0015**	0.0009	57.44
Cadmium	114	0.254	0.2853	0.2678	**0.269**	0.0157	5.825
Cobalt	59	-0.0005	-0.0024	-0.0037	**-0.0022**	0.0016	74.44
Lead	206	0.1283	0.108	0.0976	**0.1113**	0.0156	14.05
Lead	207	0.17	0.1178	0.107	**0.1316**	0.0337	25.61
Lead	208	0.1528	0.1148	0.0996	**0.1224**	0.0274	22.41
Molybdenum	95	-0.0098	-0.031	-0.0292	**-0.0234**	0.0118	50.37
Molybdenum	97	-0.024	-0.0298	-0.0442	**-0.0327**	0.0104	31.77
Molybdenum	98	-0.0203	-0.0229	-0.026	**-0.0231**	0.0028	12.3
Nickel	60	0.0705	0.0593	0.035	**0.0549**	0.0181	33
Nickel	62	0.0071	-0.0157	0.0756	**0.0223**	0.0475	212.7
Selenium	77	0.0517	-0.1952	-0.181	**-0.1082**	0.1386	128.1
Selenium	78	-0.0833	-0.4264	-0.2222	**-0.244**	0.1726	70.74
Selenium	82	-0.1079	-0.2455	-0.1463	**-0.1666**	0.071	42.63
Thallium	203	-0.0013	-0.0027	-0.0044	**-0.0028**	0.0016	56.06
Thallium	205	-0.0043	-0.0034	-0.0054	**-0.0044**	0.001	23.55
Vanadium	51	0.009	0.0146	0.02	**0.0145**	0.0055	37.72

Internal Standard Factors:

Lithium	6	0.986	0.958	1.012	**0.986**	n/a	n/a
Rhodium	103	1.067	1.021	1.026	**1.067**	n/a	n/a
Indium	115	1.062	1.027	1.025	**1.062**	n/a	n/a
Lutetium	175	1.017	0.988	0.999	**1.017**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSW K0911120 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 12:59					
Arsenic	75	17.64	16.97	17.15	**17.25**	0.3451	2
Beryllium	9	12.44	12.78	12.34	**12.52**	0.229	1.829
Cadmium	111	19.21	19.49	19.43	**19.38**	0.1451	0.7488
Cadmium	114	19.82	20.01	19.84	**19.89**	0.1047	0.5264
Cobalt	59	41.45	42.88	41.02	**41.78**	0.9719	2.326
Lead	206	20.29	20.86	20.92	**20.69**	0.3488	1.686
Lead	207	23.21	23.18	23.22	**23.2**	0.0184	0.0793
Lead	208	22.35	22.45	22.26	**22.35**	0.0983	0.4396
Molybdenum	95	12.72	12.98	12.72	**12.81**	0.1508	1.177
Molybdenum	97	12.51	13	12.69	**12.73**	0.2482	1.949
Molybdenum	98	12.61	12.86	12.85	**12.77**	0.139	1.088
Nickel	60	43.74	43.74	43.21	**43.56**	0.3086	0.7083
Nickel	62	44.75	43.26	42.88	**43.63**	0.9883	2.265
Selenium	77	39.46	39.66	39.41	**39.51**	0.1343	0.3399
Selenium	78	40.3	39.59	38.7	**39.53**	0.7983	2.02
Selenium	82	40.01	39.83	38.88	**39.58**	0.6101	1.542
Thallium	203	52.4	52.32	52.13	**52.29**	0.1378	0.2635
Thallium	205	52.65	51.94	52.89	**52.49**	0.4923	0.9378
Vanadium	51	37.26	37.73	36.08	**37.02**	0.8539	2.306

Internal Standard Factors:

Lithium	6	0.982	0.98	1	**0.982**	n/a	n/a
Rhodium	103	1.006	1.031	1.006	**1.006**	n/a	n/a
Indium	115	1.005	1.013	1.015	**1.005**	n/a	n/a
Lutetium	175	0.971	0.975	0.977	**0.971**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911120-002 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 13:02**					
Arsenic	75	24.56	24.84	24.46	**24.62**	0.197	0.8
Beryllium	9	0.5106	0.5356	0.5211	**0.5224**	0.0126	2.409
Cadmium	111	1.351	1.465	1.405	**1.407**	0.0571	4.055
Cadmium	114	2.397	2.45	2.503	**2.45**	0.0532	2.173
Cobalt	59	7.784	7.743	7.919	**7.816**	0.0921	1.179
Lead	206	161.6	159.3	164.7	**161.9**	2.694	1.664
Lead	207	181.3	178.3	183	**180.9**	2.41	1.333
Lead	208	172.9	171.2	174.9	**173**	1.846	1.067
Molybdenum	95	1.063	1.059	1.041	**1.054**	0.0115	1.094
Molybdenum	97	1.07	1.024	1.03	**1.041**	0.0249	2.391
Molybdenum	98	1.094	1.062	1.025	**1.061**	0.0344	3.239
Nickel	60	29.84	30.27	30.08	**30.06**	0.2149	0.715
Nickel	62	30.65	31.45	30.27	**30.79**	0.6015	1.954
Selenium	77	1.962	2.103	1.844	**1.97**	0.1296	6.58
Selenium	78	0.7394	0.8436	0.1102	**0.5644**	0.3968	70.3
Selenium	82	1.311	1.378	0.8835	**1.191**	0.2682	22.52
Thallium	203	0.3202	0.3215	0.328	**0.3232**	0.0041	1.283
Thallium	205	0.327	0.326	0.3295	**0.3275**	0.0018	0.5546
Vanadium	51	19.3	20.89	20.51	**20.23**	0.8342	4.123

Internal Standard Factors:

Lithium	6	0.975	1.058	1.003	**0.975**	n/a	n/a
Rhodium	103	1.054	1.051	1.056	**1.054**	n/a	n/a
Indium	115	1.018	1.016	1.013	**1.018**	n/a	n/a
Lutetium	175	0.991	0.978	0.996	**0.991**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 13:06					
Arsenic	75	20.41	20.7	20.78	**20.63**	0.193	0.9354
Beryllium	9	0.4443	0.4638	0.4796	**0.4626**	0.0177	3.825
Cadmium	111	1.299	1.307	1.255	**1.287**	0.0282	2.191
Cadmium	114	2.223	2.299	2.235	**2.253**	0.0406	1.802
Cobalt	59	7.067	7.149	7.173	**7.13**	0.0559	0.784
Lead	206	123.2	126	123.7	**124.3**	1.512	1.217
Lead	207	137.3	139.6	138	**138.3**	1.208	0.873
Lead	208	131.3	133.7	132.5	**132.5**	1.177	0.8878
Molybdenum	95	0.8576	0.912	0.8686	**0.8794**	0.0288	3.274
Molybdenum	97	0.8955	0.8896	0.9017	**0.8956**	0.0061	0.6802
Molybdenum	98	0.8504	0.8843	0.8897	**0.8748**	0.0213	2.438
Nickel	60	27.65	27.33	27.91	**27.63**	0.2928	1.06
Nickel	62	28.42	28.34	29.31	**28.69**	0.5388	1.878
Selenium	77	1.665	1.622	1.737	**1.675**	0.0577	3.446
Selenium	78	-0.3267	0.0518	0.4199	**0.0483**	0.3733	772.7
Selenium	82	0.8535	0.9591	0.7489	**0.8538**	0.1051	12.32
Thallium	203	0.2201	0.2283	0.237	**0.2285**	0.0085	3.71
Thallium	205	0.2265	0.2286	0.2408	**0.232**	0.0078	3.344
Vanadium	51	18.86	18.28	19.53	**18.89**	0.622	3.292

Internal Standard Factors:

Lithium	6	1.009	1.015	1.033	**1.009**	n/a	n/a
Rhodium	103	1.043	1.039	1.042	**1.043**	n/a	n/a
Indium	115	1.033	1.019	1.011	**1.033**	n/a	n/a
Lutetium	175	0.966	0.993	0.98	**0.966**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV4			Mean	SD	%RSD
TimeStamp		12/7/09 13:09					
Arsenic	75	24.42	24.93	24.67	**24.67**	0.2585	1.048
Beryllium	9	23.89	27.01	25.46	**25.45**	1.558	6.122
Cadmium	111	24.76	25.32	25.06	**25.05**	0.2801	1.118
Cadmium	114	24.83	24.87	25.13	**24.94**	0.1621	0.65
Cobalt	59	24.38	24.94	24.12	**24.48**	0.4179	1.707
Lead	206	25.12	25.81	25.08	**25.34**	0.4091	1.615
Lead	207	24.9	25.52	24.99	**25.14**	0.3364	1.338
Lead	208	25.08	25.57	25.1	**25.25**	0.2767	1.096
Molybdenum	95	24.13	24.69	25.26	**24.69**	0.5652	2.289
Molybdenum	97	24.86	25.15	25.07	**25.03**	0.15	0.5994
Molybdenum	98	24.42	25.3	25.02	**24.91**	0.4531	1.819
Nickel	60	24.15	24.88	24.28	**24.44**	0.3879	1.587
Nickel	62	24.08	24.23	24.01	**24.1**	0.1104	0.4581
Selenium	77	23.81	24.45	24.72	**24.33**	0.4722	1.941
Selenium	78	23.92	25.16	23.64	**24.24**	0.8088	3.337
Selenium	82	24.18	24.43	24.78	**24.46**	0.3011	1.231
Thallium	203	24.91	25.25	24.82	**25**	0.2269	0.9078
Thallium	205	24.98	25.5	25	**25.16**	0.2942	1.169
Vanadium	51	23.78	24.64	25.24	**24.55**	0.7337	2.988

Internal Standard Factors:

Lithium	6	0.984	1.027	1.024	**0.984**	n/a	n/a
Rhodium	103	1.017	1	1.007	**1.017**	n/a	n/a
Indium	115	1.016	1.01	1.013	**1.016**	n/a	n/a
Lutetium	175	0.996	0.999	0.986	**0.996**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB4			Mean	SD	%RSD
TimeStamp		12/7/09 13:12					
Arsenic	75	-0.0349	-0.032	0.0217	**-0.0151**	0.0318	211.5
Beryllium	9	0.0133	0.006	0.0166	**0.0119**	0.0054	45.45
Cadmium	111	0.0059	0.0085	0.0089	**0.0078**	0.0016	21.02
Cadmium	114	0.0126	0.015	0.0091	**0.0122**	0.003	24.25
Cobalt	59	0.0086	0.0089	0.0109	**0.0095**	0.0013	13.45
Lead	206	0.0369	0.0289	0.0352	**0.0336**	0.0042	12.54
Lead	207	0.0312	0.0286	0.0392	**0.033**	0.0055	16.79
Lead	208	0.0322	0.03	0.0398	**0.034**	0.0051	15.1
Molybdenum	95	0.2692	0.161	0.1077	**0.1793**	0.0823	45.9
Molybdenum	97	0.2768	0.1704	0.0868	**0.178**	0.0953	53.52
Molybdenum	98	0.2869	0.1822	0.1151	**0.1947**	0.0866	44.47
Nickel	60	0.0284	0.015	0.0137	**0.019**	0.0081	42.85
Nickel	62	0.0385	-0.0218	-0.0019	**0.0049**	0.0307	621.3
Selenium	77	0.7176	0.1451	-0.1217	**0.247**	0.4288	173.6
Selenium	78	-0.1785	-0.021	-0.4708	**-0.2235**	0.2282	102.1
Selenium	82	0.3726	-0.1671	-0.1466	**0.0197**	0.3058	1557
Thallium	203	0.0182	0.0172	0.0176	**0.0176**	0.0005	2.862
Thallium	205	0.0147	0.0143	0.0195	**0.0162**	0.0029	18.14
Vanadium	51	0.0122	0.0031	-0.0092	**0.002**	0.0108	531.3

Internal Standard Factors:

Lithium	6	1.016	1.001	0.982	**1.016**	n/a	n/a
Rhodium	103	1.068	1.054	1.024	**1.068**	n/a	n/a
Indium	115	1.055	1.045	1.041	**1.055**	n/a	n/a
Lutetium	175	1.023	1.016	1.008	**1.023**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 13:15					
Arsenic	75	5.437	5.711	5.181	**5.443**	0.2651	4.87
Beryllium	9	0.1029	0.1202	0.1042	**0.1091**	0.0097	8.846
Cadmium	111	0.297	0.3113	0.3195	**0.3092**	0.0114	3.685
Cadmium	114	0.5014	0.5551	0.4912	**0.5159**	0.0343	6.65
Cobalt	59	1.678	1.748	1.548	**1.658**	0.1014	6.118
Lead	206	35.3	37.26	33.84	**35.47**	1.717	4.842
Lead	207	39.36	41.08	37.61	**39.35**	1.733	4.404
Lead	208	37.68	39.85	36.23	**37.92**	1.822	4.805
Molybdenum	95	0.1866	0.2167	0.1761	**0.1931**	0.0211	10.92
Molybdenum	97	0.2038	0.2033	0.1766	**0.1946**	0.0156	8.006
Molybdenum	98	0.1879	0.203	0.1878	**0.1929**	0.0087	4.518
Nickel	60	6.34	6.909	6.177	**6.476**	0.3843	5.935
Nickel	62	6.212	6.954	6.213	**6.46**	0.4283	6.63
Selenium	77	0.1319	0.502	0.1946	**0.2762**	0.1981	71.73
Selenium	78	-0.1836	0.2825	-0.7855	**-0.2289**	0.5355	234
Selenium	82	-0.1963	0.2259	-0.0092	**0.0068**	0.2115	3107
Thallium	203	0.0553	0.053	0.0575	**0.0553**	0.0022	4.041
Thallium	205	0.0553	0.0603	0.0484	**0.0547**	0.006	10.95
Vanadium	51	4.368	4.554	3.943	**4.289**	0.313	7.298

Internal Standard Factors:

Lithium	6	0.988	1.051	0.979	**0.988**	n/a	n/a
Rhodium	103	1.047	1.061	0.998	**1.047**	n/a	n/a
Indium	115	1.032	1.05	0.996	**1.032**	n/a	n/a
Lutetium	175	0.987	1.001	0.945	**0.987**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/5 +50A			Mean	SD	%RSD
TimeStamp		12/7/09 13:18					
Arsenic	75	67.9	70.22	69.25	**69.13**	1.165	1.686
Beryllium	9	42.68	46.78	45.62	**45.02**	2.115	4.697
Cadmium	111	44.69	46.12	46.47	**45.76**	0.9442	2.063
Cadmium	114	46.65	47.94	48.36	**47.65**	0.89	1.868
Cobalt	59	51.73	53.15	52.77	**52.55**	0.7345	1.398
Lead	206	207.5	218.6	217.2	**214.4**	6.048	2.821
Lead	207	226.5	237.9	236.5	**233.6**	6.237	2.67
Lead	208	218.5	230.6	230.1	**226.4**	6.829	3.016
Molybdenum	95	46.31	49.07	48.62	**48**	1.478	3.08
Molybdenum	97	46.62	49.16	49.27	**48.35**	1.501	3.104
Molybdenum	98	46.98	49.35	48.78	**48.37**	1.239	2.562
Nickel	60	72.48	74.84	75.92	**74.41**	1.758	2.362
Nickel	62	72.42	77.52	74.45	**74.8**	2.57	3.436
Selenium	77	43.77	46.35	46.63	**45.58**	1.58	3.466
Selenium	78	42.94	45.67	44.65	**44.42**	1.375	3.095
Selenium	82	45.21	46.91	46.68	**46.27**	0.925	1.999
Thallium	203	45.85	47.33	47.67	**46.95**	0.9669	2.059
Thallium	205	45.69	47.84	47.34	**46.96**	1.124	2.394
Vanadium	51	64.95	65.68	68.29	**66.3**	1.759	2.653

Internal Standard Factors:

Lithium	6	0.895	0.963	0.963	**0.895**	n/a	n/a
Rhodium	103	1.015	1.039	1.038	**1.015**	n/a	n/a
Indium	115	0.979	0.985	0.988	**0.979**	n/a	n/a
Lutetium	175	0.95	0.974	0.968	**0.95**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 13:21					
Arsenic	75	43.59	43.96	42.66	**43.4**	0.6676	1.538
Beryllium	9	4.239	4.34	4.414	**4.331**	0.088	2.031
Cadmium	111	4.151	4.321	4.254	**4.242**	0.0856	2.017
Cadmium	114	4.449	4.543	4.463	**4.485**	0.0511	1.138
Cobalt	59	38.98	39.26	37.82	**38.69**	0.7651	1.977
Lead	206	63.56	63.02	63.21	**63.26**	0.2743	0.4336
Lead	207	74.43	74.3	73.7	**74.15**	0.3885	0.5239
Lead	208	69.58	68.96	69.45	**69.33**	0.3259	0.4701
Molybdenum	95	35.91	37.85	37	**36.92**	0.973	2.636
Molybdenum	97	36.51	37.79	37.85	**37.38**	0.7557	2.021
Molybdenum	98	36.38	37.31	37.38	**37.03**	0.5573	1.505
Nickel	60	43.86	44.39	42.88	**43.71**	0.7664	1.753
Nickel	62	44.06	44.99	43.56	**44.2**	0.723	1.636
Selenium	77	42.68	41.52	41.99	**42.06**	0.5825	1.385
Selenium	78	43.16	42.34	41.91	**42.47**	0.6324	1.489
Selenium	82	41.9	42.94	41.55	**42.13**	0.7214	1.713
Thallium	203	37.9	37.76	37.64	**37.77**	0.1321	0.3498
Thallium	205	37.77	37.67	38.14	**37.86**	0.2503	0.661
Vanadium	51	42.96	43.01	43.3	**43.09**	0.1835	0.4258

Internal Standard Factors:

Lithium	6	1.038	1.064	1.07	**1.038**	n/a	n/a
Rhodium	103	1.029	1.025	1.015	**1.029**	n/a	n/a
Indium	115	1.023	1.019	1.016	**1.023**	n/a	n/a
Lutetium	175	0.985	0.98	0.983	**0.985**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911120-001 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 13:24**					
Arsenic	75	14.54	14.27	14.51	**14.44**	0.1514	1.049
Beryllium	9	1.051	1.067	1.102	**1.073**	0.0261	2.43
Cadmium	111	4.667	4.84	4.69	**4.733**	0.0938	1.982
Cadmium	114	5.875	5.871	5.73	**5.825**	0.0827	1.42
Cobalt	59	16.49	15.89	15.67	**16.02**	0.4249	2.653
Lead	206	291.3	292.1	290.7	**291.4**	0.7133	0.2448
Lead	207	318.1	326.2	326.6	**323.6**	4.817	1.488
Lead	208	310	312.5	310.6	**311**	1.339	0.4305
Molybdenum	95	4.497	4.249	4.061	**4.269**	0.2188	5.126
Molybdenum	97	4.699	4.162	4.047	**4.302**	0.3479	8.087
Molybdenum	98	4.701	4.218	3.984	**4.301**	0.3655	8.499
Nickel	60	49.55	49.17	48.17	**48.96**	0.7124	1.455
Nickel	62	49.84	50.1	49.22	**49.72**	0.4538	0.9127
Selenium	77	3.531	3.729	3.657	**3.639**	0.1003	2.756
Selenium	78	0.9414	1.307	0.9663	**1.072**	0.2045	19.09
Selenium	82	2.928	2.134	2.368	**2.476**	0.408	16.48
Thallium	203	0.3532	0.3424	0.3217	**0.3391**	0.016	4.717
Thallium	205	0.3555	0.3343	0.3347	**0.3415**	0.0121	3.545
Vanadium	51	49.43	48.91	48.78	**49.04**	0.3426	0.6987

Internal Standard Factors:

Lithium	6	0.918	0.944	0.95	**0.918**	n/a	n/a
Rhodium	103	1.076	1.061	1.072	**1.076**	n/a	n/a
Indium	115	1.035	1.028	1.019	**1.035**	n/a	n/a
Lutetium	175	0.976	0.975	0.974	**0.976**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:27					
Arsenic	75	6.957	7.157	7.062	**7.058**	0.0999	1.415
Beryllium	9	0.5863	0.6107	0.6173	**0.6048**	0.0163	2.697
Cadmium	111	3.251	3.426	3.186	**3.288**	0.1242	3.779
Cadmium	114	4.144	4.219	4.196	**4.186**	0.0381	0.9102
Cobalt	59	10.75	10.8	10.62	**10.73**	0.0919	0.8567
Lead	206	355.6	360.1	353.6	**356.4**	3.333	0.935
Lead	207	394.6	403.4	398	**398.6**	4.46	1.119
Lead	208	378	386.6	379.6	**381.4**	4.598	1.205
Molybdenum	95	2.305	2.27	2.322	**2.299**	0.0269	1.171
Molybdenum	97	2.339	2.281	2.312	**2.311**	0.0291	1.258
Molybdenum	98	2.287	2.27	2.308	**2.289**	0.0191	0.8344
Nickel	60	38.48	38.08	38.81	**38.46**	0.3636	0.9454
Nickel	62	38.98	40.81	39.67	**39.82**	0.9262	2.326
Selenium	77	1.886	2.214	2.168	**2.089**	0.1777	8.504
Selenium	78	0.0508	0.0893	0.1413	**0.0938**	0.0454	48.45
Selenium	82	0.8456	1.166	1.044	**1.018**	0.1616	15.87
Thallium	203	0.2429	0.2312	0.2226	**0.2322**	0.0102	4.374
Thallium	205	0.2323	0.2317	0.2341	**0.2327**	0.0012	0.5355
Vanadium	51	27.97	28.58	29.07	**28.54**	0.5541	1.942

Internal Standard Factors:

Lithium	6	0.926	0.959	0.985	**0.926**	n/a	n/a
Rhodium	103	1.048	1.038	1.045	**1.048**	n/a	n/a
Indium	115	1.034	1.014	1.009	**1.034**	n/a	n/a
Lutetium	175	0.96	0.972	0.966	**0.96**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:30					
Arsenic	75	6.352	6.446	6.367	**6.388**	0.0504	0.7883
Beryllium	9	0.5071	0.5163	0.5374	**0.5203**	0.0155	2.984
Cadmium	111	3.094	3.034	3.2	**3.109**	0.084	2.701
Cadmium	114	3.905	3.971	3.999	**3.958**	0.0483	1.219
Cobalt	59	9.868	9.854	9.843	**9.855**	0.0127	0.1283
Lead	206	302.6	304.4	310.1	**305.7**	3.94	1.289
Lead	207	339.2	343.1	345.6	**342.6**	3.22	0.9397
Lead	208	325.5	328.6	332.2	**328.8**	3.359	1.022
Molybdenum	95	1.968	2.074	2.096	**2.046**	0.0684	3.343
Molybdenum	97	2.036	2.062	2.032	**2.044**	0.0164	0.8046
Molybdenum	98	1.989	2.058	2.055	**2.034**	0.0391	1.923
Nickel	60	29.45	30.12	29.07	**29.55**	0.5332	1.805
Nickel	62	29.67	30.5	29.7	**29.95**	0.4729	1.579
Selenium	77	1.658	2.146	2.121	**1.975**	0.2745	13.9
Selenium	78	-0.0133	0.1723	-0.1959	**-0.0123**	0.1841	1497
Selenium	82	0.9069	0.96	1.416	**1.094**	0.28	25.58
Thallium	203	0.2206	0.2177	0.222	**0.2201**	0.0022	1
Thallium	205	0.2169	0.2123	0.217	**0.2154**	0.0027	1.246
Vanadium	51	24	27.06	25.34	**25.47**	1.536	6.033

Internal Standard Factors:

Lithium	6	0.949	0.947	0.915	**0.949**	n/a	n/a
Rhodium	103	1.046	1.05	1.039	**1.046**	n/a	n/a
Indium	115	1.024	1.018	1.017	**1.024**	n/a	n/a
Lutetium	175	0.974	0.964	0.971	**0.974**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911120-005 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 13:34**					
Arsenic	75	17.32	17.28	16.8	**17.13**	0.2883	1.683
Beryllium	9	1.076	1.025	1.066	**1.056**	0.0269	2.546
Cadmium	111	3.635	3.693	3.593	**3.64**	0.0504	1.385
Cadmium	114	4.642	4.656	4.634	**4.644**	0.0111	0.2385
Cobalt	59	16	15.81	15.54	**15.78**	0.2344	1.485
Lead	206	237.3	237.6	238.5	**237.8**	0.6201	0.2608
Lead	207	265.2	268	266.4	**266.5**	1.428	0.5357
Lead	208	254.4	255.7	256.5	**255.5**	1.062	0.4155
Molybdenum	95	2.11	2.085	2.073	**2.089**	0.0186	0.8911
Molybdenum	97	2.121	2.13	2.094	**2.115**	0.0185	0.8735
Molybdenum	98	2.138	2.133	2.092	**2.121**	0.0254	1.198
Nickel	60	51.62	51.86	51.33	**51.6**	0.2649	0.5133
Nickel	62	52.82	53.23	51.27	**52.44**	1.031	1.966
Selenium	77	3.391	3.692	3.73	**3.604**	0.186	5.161
Selenium	78	1.007	0.9286	1.037	**0.9908**	0.0559	5.639
Selenium	82	2.002	2.375	2.532	**2.303**	0.2719	11.81
Thallium	203	0.3111	0.3082	0.3202	**0.3132**	0.0062	1.986
Thallium	205	0.3041	0.3109	0.3022	**0.3057**	0.0046	1.494
Vanadium	51	48.25	47.77	46.7	**47.57**	0.791	1.663

Internal Standard Factors:

Lithium	6	0.943	0.944	0.949	**0.943**	n/a	n/a
Rhodium	103	1.082	1.074	1.077	**1.082**	n/a	n/a
Indium	115	1.044	1.031	1.028	**1.044**	n/a	n/a
Lutetium	175	0.965	0.971	0.977	**0.965**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:37					
Arsenic	75	10.11	10.44	10.2	**10.25**	0.1693	1.651
Beryllium	9	0.7587	0.7724	0.7622	**0.7644**	0.0071	0.9299
Cadmium	111	3.72	3.786	3.686	**3.731**	0.0507	1.36
Cadmium	114	4.896	4.907	4.896	**4.9**	0.0063	0.1282
Cobalt	59	12.3	11.92	11.96	**12.06**	0.2109	1.749
Lead	206	239.8	242.1	235.9	**239.2**	3.119	1.304
Lead	207	263.2	269.5	265.7	**266.1**	3.171	1.191
Lead	208	256.5	258.9	254.1	**256.5**	2.403	0.9369
Molybdenum	95	2.199	2.215	2.151	**2.188**	0.0332	1.516
Molybdenum	97	2.177	2.185	2.238	**2.2**	0.033	1.498
Molybdenum	98	2.212	2.213	2.237	**2.221**	0.014	0.6306
Nickel	60	38.9	37.65	37.6	**38.05**	0.7332	1.927
Nickel	62	39.02	39.59	40.26	**39.63**	0.6196	1.564
Selenium	77	2.723	2.753	3.02	**2.832**	0.1636	5.777
Selenium	78	0.3303	0.3596	0.8313	**0.5071**	0.2812	55.45
Selenium	82	1.766	1.831	1.406	**1.668**	0.2289	13.72
Thallium	203	0.2651	0.2647	0.2551	**0.2616**	0.0056	2.155
Thallium	205	0.2554	0.247	0.2446	**0.249**	0.0057	2.289
Vanadium	51	37.53	36.99	36.17	**36.9**	0.6831	1.851

Internal Standard Factors:

Lithium	6	0.9	0.92	0.919	**0.9**	n/a	n/a
Rhodium	103	1.079	1.064	1.071	**1.079**	n/a	n/a
Indium	115	1.041	1.024	1.024	**1.041**	n/a	n/a
Lutetium	175	0.975	0.977	0.974	**0.975**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:40					
Arsenic	75	7.735	7.96	7.759	**7.818**	0.1236	1.581
Beryllium	9	0.4162	0.4168	0.4024	**0.4118**	0.0082	1.984
Cadmium	111	2.85	2.957	2.9	**2.902**	0.0532	1.833
Cadmium	114	4.059	4.045	4.112	**4.072**	0.0354	0.8701
Cobalt	59	7.647	7.702	7.596	**7.649**	0.053	0.6924
Lead	206	210.7	215	211.6	**212.5**	2.27	1.068
Lead	207	236.6	239.7	236.1	**237.5**	1.971	0.8299
Lead	208	227.5	232.3	227.9	**229.2**	2.645	1.154
Molybdenum	95	1.568	1.679	1.612	**1.62**	0.0559	3.452
Molybdenum	97	1.584	1.633	1.595	**1.604**	0.0256	1.597
Molybdenum	98	1.577	1.637	1.659	**1.625**	0.0425	2.615
Nickel	60	29.54	30	29.9	**29.81**	0.242	0.8117
Nickel	62	30.96	31.35	29.55	**30.62**	0.945	3.086
Selenium	77	1.225	1.407	1.246	**1.292**	0.0993	7.686
Selenium	78	-0.4286	-0.0739	-0.1171	**-0.2066**	0.1935	93.7
Selenium	82	0.756	0.5693	0.518	**0.6144**	0.1253	20.39
Thallium	203	0.1262	0.1346	0.1318	**0.1309**	0.0043	3.291
Thallium	205	0.1227	0.1346	0.1261	**0.1278**	0.0061	4.802
Vanadium	51	27.54	28.23	27.29	**27.69**	0.49	1.77

Internal Standard Factors:

Lithium	6	0.914	0.926	0.899	**0.914**	n/a	n/a
Rhodium	103	1.046	1.051	1.043	**1.046**	n/a	n/a
Indium	115	1.029	1.017	1.012	**1.029**	n/a	n/a
Lutetium	175	0.984	0.985	0.981	**0.984**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-008 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:43					
Arsenic	75	9.046	8.823	8.546	**8.805**	0.2508	2.849
Beryllium	9	0.8283	0.8031	0.7434	**0.7916**	0.0436	5.507
Cadmium	111	2.163	2.024	2	**2.062**	0.088	4.267
Cadmium	114	2.85	2.74	2.617	**2.736**	0.1165	4.259
Cobalt	59	11.81	11.4	10.78	**11.33**	0.5206	4.595
Lead	206	257.1	250.3	244	**250.5**	6.561	2.619
Lead	207	288.5	280.6	273.1	**280.7**	7.701	2.743
Lead	208	277.3	269.1	260.2	**268.8**	8.554	3.182
Molybdenum	95	1.324	1.287	1.248	**1.286**	0.0377	2.929
Molybdenum	97	1.409	1.227	1.195	**1.277**	0.1154	9.037
Molybdenum	98	1.31	1.271	1.238	**1.273**	0.036	2.825
Nickel	60	38.18	38.54	36.2	**37.64**	1.26	3.348
Nickel	62	40.11	38.96	36.91	**38.66**	1.622	4.195
Selenium	77	2.39	2.699	2.341	**2.477**	0.1944	7.848
Selenium	78	0.518	0.0865	0.5899	**0.3981**	0.2722	68.38
Selenium	82	1.088	1.292	1.077	**1.152**	0.1214	10.53
Thallium	203	0.1868	0.201	0.1951	**0.1943**	0.0071	3.664
Thallium	205	0.1997	0.1882	0.1879	**0.192**	0.0067	3.503
Vanadium	51	37.46	38.7	36.59	**37.58**	1.057	2.812

Internal Standard Factors:

Lithium	6	0.883	0.904	0.912	**0.883**	n/a	n/a
Rhodium	103	1.074	1.058	1.055	**1.074**	n/a	n/a
Indium	115	1.046	1.03	1.02	**1.046**	n/a	n/a
Lutetium	175	0.989	0.987	0.991	**0.989**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV5			Mean	SD	%RSD
TimeStamp		12/7/09 13:46					
Arsenic	75	24.94	24.9	24.35	**24.73**	0.3322	1.343
Beryllium	9	26.62	26.08	26.49	**26.4**	0.2787	1.056
Cadmium	111	25.53	25.11	25.56	**25.4**	0.2515	0.9899
Cadmium	114	25.68	25.39	25.61	**25.56**	0.1497	0.5857
Cobalt	59	24.8	25.13	24.22	**24.72**	0.4581	1.853
Lead	206	25.86	25.94	26.02	**25.94**	0.0768	0.2959
Lead	207	26	25.82	25.96	**25.93**	0.0945	0.3646
Lead	208	25.75	26	26.09	**25.94**	0.1779	0.6859
Molybdenum	95	24.84	25.6	25.41	**25.28**	0.3969	1.57
Molybdenum	97	25.22	26	25.42	**25.54**	0.4025	1.576
Molybdenum	98	25.2	25.74	25.92	**25.62**	0.3726	1.454
Nickel	60	24.21	25.63	24.35	**24.73**	0.7821	3.163
Nickel	62	24.59	25.48	24.17	**24.75**	0.6647	2.686
Selenium	77	24.74	26.03	25.1	**25.29**	0.6704	2.651
Selenium	78	24.94	25.18	24.64	**24.92**	0.2679	1.075
Selenium	82	25.15	25.1	24.84	**25.03**	0.1631	0.6516
Thallium	203	25.55	25.7	25.75	**25.67**	0.1068	0.416
Thallium	205	25.62	26.01	25.91	**25.85**	0.1988	0.7692
Vanadium	51	24.48	25.4	24.92	**24.93**	0.4601	1.845

Internal Standard Factors:

Lithium	6	1.004	1.013	1.016	**1.004**	n/a	n/a
Rhodium	103	1.019	1.014	1.007	**1.019**	n/a	n/a
Indium	115	1.033	1.009	1.011	**1.033**	n/a	n/a
Lutetium	175	1.018	1.009	1.015	**1.018**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB5			Mean	SD	%RSD
TimeStamp		12/7/09 13:49					
Arsenic	75	-0.0729	-0.0698	-0.037	**-0.0599**	0.0199	33.17
Beryllium	9	0.0105	0.0114	0.019	**0.0136**	0.0047	34.15
Cadmium	111	0.009	0.0106	0.0094	**0.0097**	0.0008	8.488
Cadmium	114	0.0118	0.0093	0.0152	**0.0121**	0.0029	24.07
Cobalt	59	0.0126	0.0136	0.0176	**0.0146**	0.0026	17.92
Lead	206	0.0453	0.055	0.0591	**0.0531**	0.0071	13.38
Lead	207	0.0407	0.0489	0.0639	**0.0511**	0.0117	22.95
Lead	208	0.0432	0.0482	0.0586	**0.05**	0.0078	15.67
Molybdenum	95	0.2761	0.1751	0.0985	**0.1832**	0.0891	48.61
Molybdenum	97	0.2626	0.1451	0.1096	**0.1724**	0.0801	46.44
Molybdenum	98	0.261	0.1649	0.1183	**0.1814**	0.0728	40.11
Nickel	60	0.0186	0.0148	0.0346	**0.0227**	0.0105	46.36
Nickel	62	-0.0002	0.0074	-0.0127	**-0.0018**	0.0101	556.9
Selenium	77	0.3596	0.2498	0.2779	**0.2958**	0.057	19.28
Selenium	78	0.1524	0.4499	-0.3633	**0.0797**	0.4115	516.5
Selenium	82	-0.0872	-0.1599	0.0032	**-0.0813**	0.0817	100.5
Thallium	203	0.0223	0.0225	0.0246	**0.0231**	0.0012	5.338
Thallium	205	0.0184	0.0187	0.0233	**0.0201**	0.0028	13.79
Vanadium	51	0.022	0.0099	0.005	**0.0123**	0.0087	70.87

Internal Standard Factors:

Lithium	6	1.002	1.014	0.987	**1.002**	n/a	n/a
Rhodium	103	1.049	1.037	1.026	**1.049**	n/a	n/a
Indium	115	1.043	1.04	1.034	**1.043**	n/a	n/a
Lutetium	175	1.025	1.024	1.036	**1.025**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		**K0911120-009 1/5**			**Mean**	**SD**	**%RSD**
TimeStamp		**12/7/09 13:52**					
Arsenic	75	15.21	14.87	14.19	**14.76**	0.5206	3.527
Beryllium	9	1.424	1.309	1.236	**1.323**	0.0947	7.161
Cadmium	111	5.851	5.79	5.479	**5.707**	0.1994	3.495
Cadmium	114	7.314	7.169	6.918	**7.134**	0.2002	2.807
Cobalt	59	18.48	17.97	16.46	**17.64**	1.052	5.965
Lead	206	347.4	345.5	332.5	**341.8**	8.099	2.369
Lead	207	389.3	386	374.2	**383.2**	7.962	2.078
Lead	208	374.7	368.2	358.7	**367.2**	8.072	2.198
Molybdenum	95	3.726	3.685	3.536	**3.649**	0.1	2.739
Molybdenum	97	3.838	3.676	3.469	**3.661**	0.1847	5.046
Molybdenum	98	3.699	3.686	3.467	**3.618**	0.1305	3.607
Nickel	60	57.96	54.9	51.27	**54.71**	3.352	6.127
Nickel	62	57.44	55.62	54.74	**55.93**	1.378	2.463
Selenium	77	4.565	4.341	3.789	**4.232**	0.3997	9.446
Selenium	78	1.539	1.578	1.348	**1.488**	0.1232	8.275
Selenium	82	2.812	2.075	1.997	**2.295**	0.4497	19.6
Thallium	203	0.3682	0.3679	0.3589	**0.365**	0.0053	1.441
Thallium	205	0.3557	0.3548	0.3546	**0.355**	0.0006	0.166
Vanadium	51	57.58	53.25	52.32	**54.38**	2.81	5.168

Internal Standard Factors:

Lithium	6	0.986	0.963	0.953	**0.986**	n/a	n/a
Rhodium	103	1.078	1.068	1.059	**1.078**	n/a	n/a
Indium	115	1.02	1.026	1.021	**1.02**	n/a	n/a
Lutetium	175	0.975	0.981	0.983	**0.975**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:55					
Arsenic	75	20.73	20.59	19.71	**20.35**	0.5537	2.721
Beryllium	9	0.7483	0.8345	0.7892	**0.7907**	0.0432	5.457
Cadmium	111	11.43	11.5	11.22	**11.39**	0.1463	1.285
Cadmium	114	12.18	12.46	12.28	**12.31**	0.142	1.154
Cobalt	59	12.3	12.69	11.54	**12.18**	0.5892	4.838
Lead	206	321.9	330.9	326.9	**326.6**	4.494	1.376
Lead	207	366.2	368	363.5	**365.9**	2.27	0.6203
Lead	208	348.2	355.3	349.4	**350.9**	3.781	1.077
Molybdenum	95	4.239	4.447	4.338	**4.341**	0.1043	2.401
Molybdenum	97	4.324	4.517	4.372	**4.404**	0.1003	2.278
Molybdenum	98	4.392	4.458	4.304	**4.384**	0.0772	1.762
Nickel	60	61.27	62.45	59.86	**61.19**	1.301	2.127
Nickel	62	61.47	64.26	61.01	**62.25**	1.761	2.83
Selenium	77	2.857	3.08	2.994	**2.977**	0.1124	3.776
Selenium	78	1.112	1.335	0.7218	**1.056**	0.3104	29.39
Selenium	82	2.05	2.058	1.292	**1.8**	0.4399	24.44
Thallium	203	0.3266	0.3282	0.3278	**0.3275**	0.0009	0.2602
Thallium	205	0.326	0.3254	0.3232	**0.3249**	0.0015	0.459
Vanadium	51	39.02	40.88	40.2	**40.03**	0.9418	2.352

Internal Standard Factors:

Lithium	6	0.967	0.979	0.948	**0.967**	n/a	n/a
Rhodium	103	1.077	1.079	1.058	**1.077**	n/a	n/a
Indium	115	1.028	1.029	1.019	**1.028**	n/a	n/a
Lutetium	175	0.982	0.985	0.983	**0.982**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-011 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 13:59					
Arsenic	75	28.85	29.72	29.33	**29.3**	0.4343	1.482
Beryllium	9	0.9223	0.9033	0.9753	**0.9336**	0.0373	3.999
Cadmium	111	4.375	4.552	4.497	**4.475**	0.0905	2.023
Cadmium	114	6.315	6.453	6.517	**6.429**	0.103	1.603
Cobalt	59	13.33	14.17	13.64	**13.71**	0.4277	3.119
Lead	206	471.5	473.7	476.8	**474**	2.628	0.5544
Lead	207	524.3	536.4	545	**535.2**	10.41	1.945
Lead	208	490.7	500	506.4	**499**	7.886	1.58
Molybdenum	95	2.814	2.813	2.801	**2.81**	0.0072	0.2564
Molybdenum	97	2.735	2.814	2.843	**2.797**	0.056	2.001
Molybdenum	98	2.759	2.906	2.797	**2.821**	0.076	2.695
Nickel	60	67.78	69.32	67.51	**68.2**	0.9766	1.432
Nickel	62	69.16	69.69	69.35	**69.4**	0.2671	0.3849
Selenium	77	4.023	3.597	4.143	**3.921**	0.2866	7.31
Selenium	78	1.406	2.178	1.567	**1.717**	0.4071	23.71
Selenium	82	2.656	3.177	2.741	**2.858**	0.2796	9.784
Thallium	203	0.6745	0.6501	0.678	**0.6675**	0.0152	2.273
Thallium	205	0.6343	0.6615	0.6659	**0.6539**	0.0171	2.617
Vanadium	51	43.27	43.49	44.22	**43.66**	0.4954	1.135

Internal Standard Factors:

Lithium	6	0.974	0.98	1.002	**0.974**	n/a	n/a
Rhodium	103	1.053	1.057	1.048	**1.053**	n/a	n/a
Indium	115	0.985	0.988	0.984	**0.985**	n/a	n/a
Lutetium	175	0.955	0.958	0.968	**0.955**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-012 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:02					
Arsenic	75	43.53	46.09	45.06	**44.89**	1.286	2.864
Beryllium	9	1.331	1.531	1.473	**1.445**	0.1028	7.113
Cadmium	111	5.386	5.631	5.547	**5.521**	0.1241	2.248
Cadmium	114	6.879	7.057	6.993	**6.976**	0.0904	1.296
Cobalt	59	21	20.61	20.33	**20.65**	0.3364	1.629
Lead	206	1133	1154	1159	**1149**	13.83	1.204
Lead	207	1241	1267	1289	**1265**	24.05	1.9
Lead	208	1197	1222	1224	**1215**	14.97	1.233
Molybdenum	95	3.329	3.471	3.378	**3.393**	0.0722	2.128
Molybdenum	97	3.34	3.455	3.421	**3.405**	0.0594	1.744
Molybdenum	98	3.283	3.385	3.319	**3.329**	0.0517	1.553
Nickel	60	64.15	69.32	64.68	**66.05**	2.846	4.308
Nickel	62	66.25	70.19	66.04	**67.49**	2.335	3.459
Selenium	77	4.913	4.666	5.205	**4.928**	0.2698	5.474
Selenium	78	1.893	1.794	2.039	**1.909**	0.1228	6.436
Selenium	82	3.054	3.335	3.832	**3.407**	0.3945	11.58
Thallium	203	0.3538	0.3554	0.355	**0.3547**	0.0008	0.2372
Thallium	205	0.3596	0.3562	0.3736	**0.3631**	0.0092	2.538
Vanadium	51	55.29	64.29	60.74	**60.1**	4.531	7.539

Internal Standard Factors:

Lithium	6	0.943	1.042	1.028	**0.943**	n/a	n/a
Rhodium	103	1.067	1.081	1.086	**1.067**	n/a	n/a
Indium	115	0.991	1.001	1.005	**0.991**	n/a	n/a
Lutetium	175	0.957	0.972	0.987	**0.957**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-013 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:05					
Arsenic	75	10.72	11.14	10.94	**10.93**	0.2067	1.89
Beryllium	9	0.8277	0.9718	0.9184	**0.906**	0.0729	8.043
Cadmium	111	4.521	4.816	4.573	**4.637**	0.1578	3.403
Cadmium	114	5.401	5.795	5.685	**5.627**	0.2035	3.617
Cobalt	59	13.86	14.42	13.84	**14.04**	0.3316	2.362
Lead	206	283.2	293.4	286.5	**287.7**	5.229	1.818
Lead	207	311.9	332.4	319.7	**321.4**	10.36	3.222
Lead	208	303.1	317.8	306.7	**309.2**	7.673	2.482
Molybdenum	95	2.189	2.329	2.312	**2.277**	0.0766	3.362
Molybdenum	97	2.222	2.318	2.279	**2.273**	0.0484	2.129
Molybdenum	98	2.172	2.254	2.208	**2.212**	0.0408	1.843
Nickel	60	40.78	44	42.47	**42.42**	1.61	3.795
Nickel	62	41.15	44.13	43.39	**42.89**	1.553	3.621
Selenium	77	2.923	3.137	3.826	**3.295**	0.4722	14.33
Selenium	78	0.7158	1.318	0.9654	**0.9995**	0.3023	30.25
Selenium	82	1.947	2.029	1.631	**1.869**	0.2098	11.23
Thallium	203	0.2502	0.2629	0.256	**0.2564**	0.0064	2.488
Thallium	205	0.2486	0.2601	0.2486	**0.2525**	0.0066	2.624
Vanadium	51	41.2	44.14	43.45	**42.93**	1.537	3.581

Internal Standard Factors:

Lithium	6	0.925	0.997	0.975	**0.925**	n/a	n/a
Rhodium	103	1.067	1.07	1.066	**1.067**	n/a	n/a
Indium	115	1.028	1.051	1.032	**1.028**	n/a	n/a
Lutetium	175	0.97	0.981	0.972	**0.97**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-014 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:08					
Arsenic	75	14.94	15.07	14.51	**14.84**	0.2911	1.962
Beryllium	9	1.102	1.077	1.025	**1.068**	0.039	3.655
Cadmium	111	5.507	5.601	5.603	**5.57**	0.055	0.9865
Cadmium	114	6.762	6.861	6.887	**6.837**	0.0658	0.9627
Cobalt	59	15.64	15.26	15.33	**15.41**	0.2007	1.302
Lead	206	299.3	302.7	299.4	**300.5**	1.927	0.6413
Lead	207	333.5	342.5	340.2	**338.7**	4.693	1.385
Lead	208	323.2	327.8	324.1	**325**	2.421	0.7449
Molybdenum	95	4.031	4.133	4.053	**4.072**	0.0537	1.318
Molybdenum	97	4.176	4.159	4.193	**4.176**	0.0173	0.4135
Molybdenum	98	4.056	4.234	4.149	**4.146**	0.0886	2.137
Nickel	60	48.02	49.94	46.76	**48.24**	1.603	3.322
Nickel	62	49.29	49.89	49.64	**49.61**	0.2991	0.603
Selenium	77	3.756	3.631	4.426	**3.938**	0.4278	10.86
Selenium	78	1.218	1.566	0.853	**1.212**	0.3566	29.42
Selenium	82	2.614	2.79	3.045	**2.816**	0.2168	7.698
Thallium	203	0.3365	0.3372	0.3214	**0.3317**	0.0089	2.696
Thallium	205	0.3232	0.3349	0.3344	**0.3308**	0.0066	1.994
Vanadium	51	48.18	49.36	47.92	**48.49**	0.7644	1.577

Internal Standard Factors:

Lithium	6	0.939	0.954	0.926	**0.939**	n/a	n/a
Rhodium	103	1.077	1.071	1.075	**1.077**	n/a	n/a
Indium	115	1.037	1.022	1.025	**1.037**	n/a	n/a
Lutetium	175	0.967	0.972	0.971	**0.967**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-015 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:11					
Arsenic	75	8.387	8.842	8.994	**8.741**	0.3159	3.614
Beryllium	9	0.8579	0.9616	1.016	**0.945**	0.0801	8.476
Cadmium	111	5.084	5.278	5.351	**5.238**	0.1381	2.637
Cadmium	114	5.792	5.93	6.037	**5.92**	0.1225	2.069
Cobalt	59	14.94	14.93	15.35	**15.08**	0.2344	1.555
Lead	206	323.8	323.8	327.5	**325**	2.112	0.6497
Lead	207	363.3	362.8	361.2	**362.4**	1.103	0.3042
Lead	208	347.8	348.1	347.7	**347.9**	0.1771	0.0509
Molybdenum	95	2.417	2.51	2.508	**2.479**	0.0531	2.143
Molybdenum	97	2.392	2.401	2.471	**2.421**	0.0432	1.784
Molybdenum	98	2.338	2.458	2.474	**2.423**	0.0748	3.085
Nickel	60	40.69	43.18	44.97	**42.95**	2.151	5.009
Nickel	62	41.98	44.2	45.3	**43.83**	1.691	3.859
Selenium	77	2.935	3.136	3.108	**3.059**	0.1086	3.55
Selenium	78	0.6894	1.323	1.018	**1.01**	0.3168	31.36
Selenium	82	1.215	2.001	1.861	**1.692**	0.4191	24.76
Thallium	203	0.2495	0.2294	0.2417	**0.2402**	0.0101	4.216
Thallium	205	0.2494	0.2385	0.2312	**0.2397**	0.0091	3.812
Vanadium	51	42.6	46.53	47.4	**45.51**	2.554	5.612

Internal Standard Factors:

Lithium	6	0.888	1.018	1.023	**0.888**	n/a	n/a
Rhodium	103	1.064	1.056	1.069	**1.064**	n/a	n/a
Indium	115	1.02	1.015	1.025	**1.02**	n/a	n/a
Lutetium	175	0.979	0.973	0.981	**0.979**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-016 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:14					
Arsenic	75	11.61	11.68	11.51	**11.6**	0.0861	0.7428
Beryllium	9	0.8249	0.812	0.8496	**0.8288**	0.0191	2.308
Cadmium	111	2.835	2.968	2.923	**2.908**	0.0676	2.323
Cadmium	114	3.581	3.652	3.626	**3.62**	0.0357	0.9868
Cobalt	59	12.16	12.72	12.53	**12.47**	0.2839	2.277
Lead	206	245.2	254.2	259	**252.8**	7.016	2.776
Lead	207	277.6	285.6	288.5	**283.9**	5.643	1.988
Lead	208	267.4	275.7	277.1	**273.4**	5.213	1.907
Molybdenum	95	2.103	2.237	2.12	**2.153**	0.0734	3.408
Molybdenum	97	2.185	2.253	2.168	**2.202**	0.0449	2.039
Molybdenum	98	2.14	2.211	2.182	**2.178**	0.036	1.651
Nickel	60	56.46	56.78	55.42	**56.22**	0.7098	1.262
Nickel	62	56.97	58.22	56.89	**57.36**	0.7443	1.298
Selenium	77	2.721	2.89	2.83	**2.813**	0.0856	3.044
Selenium	78	0.7548	0.3448	0.4164	**0.5053**	0.219	43.34
Selenium	82	1.615	1.694	1.472	**1.594**	0.1128	7.075
Thallium	203	0.2222	0.2127	0.2098	**0.2149**	0.0065	3.028
Thallium	205	0.2074	0.2143	0.2102	**0.2106**	0.0035	1.671
Vanadium	51	38.27	37.37	37.6	**37.75**	0.4693	1.243

Internal Standard Factors:

Lithium	6	0.901	0.917	0.917	**0.901**	n/a	n/a
Rhodium	103	1.069	1.059	1.048	**1.069**	n/a	n/a
Indium	115	1.037	1.034	1.019	**1.037**	n/a	n/a
Lutetium	175	0.964	0.968	0.971	**0.964**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-017 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:17					
Arsenic	75	8.971	8.62	8.889	**8.827**	0.1836	2.08
Beryllium	9	0.7776	0.8063	0.8394	**0.8078**	0.0309	3.825
Cadmium	111	3.609	3.642	3.718	**3.656**	0.0557	1.524
Cadmium	114	4.232	4.268	4.349	**4.283**	0.0598	1.396
Cobalt	59	11.41	11.33	11.46	**11.4**	0.064	0.5615
Lead	206	247.1	252.3	250.3	**249.9**	2.629	1.052
Lead	207	274.7	281.3	282.5	**279.5**	4.218	1.509
Lead	208	264.1	270	269.4	**267.8**	3.219	1.202
Molybdenum	95	1.653	1.697	1.774	**1.708**	0.0614	3.593
Molybdenum	97	1.632	1.729	1.747	**1.703**	0.062	3.639
Molybdenum	98	1.628	1.651	1.685	**1.655**	0.0285	1.724
Nickel	60	38.88	38.73	38.48	**38.69**	0.1993	0.515
Nickel	62	40.1	40.24	41.03	**40.46**	0.499	1.233
Selenium	77	2.228	2.583	2.423	**2.411**	0.1778	7.372
Selenium	78	0.5053	0.3781	0.9735	**0.619**	0.3135	50.66
Selenium	82	1.754	0.9958	1.195	**1.315**	0.393	29.89
Thallium	203	0.1994	0.1951	0.1925	**0.1957**	0.0035	1.796
Thallium	205	0.2008	0.194	0.1918	**0.1955**	0.0047	2.394
Vanadium	51	35.52	34.83	37.08	**35.81**	1.153	3.22

Internal Standard Factors:

Lithium	6	0.93	0.896	0.95	**0.93**	n/a	n/a
Rhodium	103	1.057	1.049	1.068	**1.057**	n/a	n/a
Indium	115	1.035	1.022	1.037	**1.035**	n/a	n/a
Lutetium	175	0.958	0.964	0.973	**0.958**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-018 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:20					
Arsenic	75	6.847	7.101	7.128	**7.025**	0.1551	2.207
Beryllium	9	0.6844	0.6763	0.6718	**0.6775**	0.0064	0.9455
Cadmium	111	2.246	2.277	2.292	**2.272**	0.0234	1.029
Cadmium	114	2.734	2.821	2.863	**2.806**	0.066	2.352
Cobalt	59	11.73	11.79	12.14	**11.89**	0.2213	1.862
Lead	206	148.5	153.7	152.1	**151.4**	2.627	1.735
Lead	207	167	170.5	169.8	**169.1**	1.868	1.105
Lead	208	160.1	163.9	162.1	**162**	1.916	1.182
Molybdenum	95	2.282	2.322	2.378	**2.327**	0.0479	2.06
Molybdenum	97	2.304	2.327	2.392	**2.341**	0.0451	1.928
Molybdenum	98	2.275	2.328	2.36	**2.321**	0.0428	1.843
Nickel	60	31.06	31.58	32.26	**31.63**	0.6027	1.905
Nickel	62	32.06	32.93	32.77	**32.59**	0.4632	1.421
Selenium	77	2.458	2.477	2.327	**2.421**	0.0816	3.371
Selenium	78	0.5512	0.5282	0.7551	**0.6115**	0.1249	20.42
Selenium	82	0.9982	1.172	1.334	**1.168**	0.168	14.39
Thallium	203	0.1688	0.174	0.1826	**0.1751**	0.007	3.974
Thallium	205	0.1729	0.1738	0.1763	**0.1743**	0.0018	1.034
Vanadium	51	34.95	36.96	35.78	**35.9**	1.012	2.82

Internal Standard Factors:

Lithium	6	1.005	1.035	1.021	**1.005**	n/a	n/a
Rhodium	103	1.06	1.05	1.068	**1.06**	n/a	n/a
Indium	115	1.043	1.024	1.03	**1.043**	n/a	n/a
Lutetium	175	0.978	0.982	0.98	**0.978**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV6			Mean	SD	%RSD
TimeStamp		12/7/09 14:23					
Arsenic	75	24.04	25.14	24.88	**24.68**	0.5736	2.324
Beryllium	9	25.92	26.47	27.98	**26.79**	1.067	3.982
Cadmium	111	24.6	25	25.13	**24.91**	0.2753	1.105
Cadmium	114	24.8	25.01	25.43	**25.08**	0.32	1.276
Cobalt	59	23.94	24.78	23.94	**24.22**	0.4839	1.998
Lead	206	25.27	26.11	25.96	**25.78**	0.4516	1.752
Lead	207	25.18	26.16	26.13	**25.83**	0.5574	2.158
Lead	208	25.22	26	26.12	**25.78**	0.4923	1.909
Molybdenum	95	23.96	24.77	25.11	**24.61**	0.5883	2.39
Molybdenum	97	24.02	25.07	25.27	**24.79**	0.6675	2.693
Molybdenum	98	23.72	25.27	25.2	**24.73**	0.8741	3.535
Nickel	60	24.18	24.62	24.52	**24.44**	0.2321	0.9495
Nickel	62	24.41	24.88	24.51	**24.6**	0.246	1
Selenium	77	22.74	24.21	23.9	**23.62**	0.7773	3.292
Selenium	78	23.5	24.77	24.15	**24.14**	0.637	2.639
Selenium	82	23.87	25.84	25.31	**25**	1.021	4.083
Thallium	203	25.15	25.77	25.81	**25.58**	0.3679	1.438
Thallium	205	24.98	26.03	26.13	**25.71**	0.6355	2.471
Vanadium	51	24.23	25.66	25.56	**25.15**	0.795	3.161

Internal Standard Factors:

Lithium	6	0.988	1.007	1.04	**0.988**	n/a	n/a
Rhodium	103	1.009	1.013	1.007	**1.009**	n/a	n/a
Indium	115	1.027	1.02	1.01	**1.027**	n/a	n/a
Lutetium	175	0.979	0.998	0.995	**0.979**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB6			Mean	SD	%RSD
TimeStamp		12/7/09 14:26					
Arsenic	75	-0.059	0.0904	-0.0457	**-0.0048**	0.0827	1740
Beryllium	9	0.0158	0.0067	0.0221	**0.0149**	0.0077	51.94
Cadmium	111	0.0167	0.0114	0.0213	**0.0165**	0.005	30.39
Cadmium	114	0.0179	0.015	0.0174	**0.0168**	0.0015	9.126
Cobalt	59	0.0175	0.0131	0.0169	**0.0158**	0.0024	14.88
Lead	206	0.0525	0.0511	0.0639	**0.0558**	0.0071	12.64
Lead	207	0.0595	0.0497	0.0698	**0.0597**	0.0101	16.85
Lead	208	0.0595	0.0499	0.0673	**0.0589**	0.0087	14.8
Molybdenum	95	0.3382	0.156	0.1171	**0.2038**	0.118	57.93
Molybdenum	97	0.3588	0.1521	0.1134	**0.2081**	0.1319	63.38
Molybdenum	98	0.3748	0.1465	0.1223	**0.2145**	0.1393	64.93
Nickel	60	0.0229	0.0007	0.0291	**0.0176**	0.015	85.2
Nickel	62	-0.0161	-0.0406	-0.0133	**-0.0234**	0.015	64.29
Selenium	77	0.5687	-0.0839	0.2784	**0.2544**	0.3269	128.5
Selenium	78	0.3514	-1.201	0.235	**-0.205**	0.8649	421.9
Selenium	82	0.0797	0.238	-0.0377	**0.0933**	0.1384	148.3
Thallium	203	0.0278	0.0234	0.027	**0.0261**	0.0023	8.946
Thallium	205	0.0247	0.021	0.0234	**0.023**	0.0019	8.151
Vanadium	51	0.0301	-0.0263	0.0243	**0.0094**	0.031	329.7

Internal Standard Factors:

Lithium	6	0.984	0.898	0.996	**0.984**	n/a	n/a
Rhodium	103	1.086	0.973	1.037	**1.086**	n/a	n/a
Indium	115	1.091	0.962	1.026	**1.091**	n/a	n/a
Lutetium	175	1.052	0.939	1.011	**1.052**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-MB			Mean	SD	%RSD
TimeStamp		12/7/09 14:29					
Arsenic	75	-0.1427	-0.0126	-0.0164	**-0.0572**	0.074	129.4
Beryllium	9	-0.0043	-0.0003	-0.0049	**-0.0032**	0.0025	77.86
Cadmium	111	0.0001	0.0001	-0.0038	**-0.0012**	0.0022	186.8
Cadmium	114	0.2807	0.2872	0.2759	**0.2813**	0.0057	2.01
Cobalt	59	0.0025	0.0044	-0.0004	**0.0022**	0.0024	110.4
Lead	206	0.1105	0.1088	0.0885	**0.1026**	0.0123	11.96
Lead	207	0.1044	0.1156	0.0966	**0.1055**	0.0095	9.048
Lead	208	0.1141	0.1095	0.0943	**0.1059**	0.0103	9.748
Molybdenum	95	0.0327	0.0117	0.0056	**0.0167**	0.0142	85.3
Molybdenum	97	0.0175	0.0146	-0.0041	**0.0093**	0.0118	126.1
Molybdenum	98	0.0368	0.0207	0.0144	**0.024**	0.0115	48.12
Nickel	60	0.1003	0.0746	0.0867	**0.0872**	0.0129	14.75
Nickel	62	0.0671	0.0303	0.0234	**0.0403**	0.0235	58.39
Selenium	77	0.1623	0.1458	0.0449	**0.1177**	0.0636	54.03
Selenium	78	-0.0353	0.0997	-0.2591	**-0.0649**	0.1812	279.3
Selenium	82	-0.4614	0.054	-0.0399	**-0.1491**	0.2745	184.1
Thallium	203	-0.0014	-0.0024	-0.0041	**-0.0026**	0.0014	52.57
Thallium	205	-0.0041	-0.0036	-0.005	**-0.0042**	0.0007	17.15
Vanadium	51	0.0192	0.0252	-0.0013	**0.0144**	0.0139	96.58

Internal Standard Factors:

Lithium	6	0.962	0.944	0.932	**0.962**	n/a	n/a
Rhodium	103	1.044	1.044	1.039	**1.044**	n/a	n/a
Indium	115	1.034	1.03	1.014	**1.034**	n/a	n/a
Lutetium	175	1.007	1.01	0.993	**1.007**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0911120 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 14:32					
Arsenic	75	15.79	16.13	16.57	**16.17**	0.3895	2.41
Beryllium	9	10.7	11.58	11.98	**11.42**	0.6546	5.733
Cadmium	111	16.58	17.68	18.47	**17.58**	0.9498	5.403
Cadmium	114	16.65	18.01	18.57	**17.74**	0.9858	5.556
Cobalt	59	34.92	38.01	39.38	**37.44**	2.285	6.102
Lead	206	17.45	18.73	18.84	**18.34**	0.7724	4.211
Lead	207	19.52	21.45	21.4	**20.79**	1.098	5.281
Lead	208	18.82	20.41	20.42	**19.88**	0.9237	4.646
Molybdenum	95	11	11.98	12.06	**11.68**	0.5914	5.063
Molybdenum	97	10.86	11.84	12.3	**11.66**	0.735	6.301
Molybdenum	98	10.9	11.88	12.44	**11.74**	0.7807	6.648
Nickel	60	37.11	40.24	40.58	**39.31**	1.912	4.864
Nickel	62	36.65	40.41	40.43	**39.16**	2.176	5.555
Selenium	77	33.08	37.16	37.36	**35.87**	2.418	6.742
Selenium	78	34.23	36.9	38.07	**36.4**	1.97	5.413
Selenium	82	34.86	36.23	38.09	**36.39**	1.62	4.452
Thallium	203	46.5	49.26	49.7	**48.49**	1.735	3.578
Thallium	205	46.97	49.46	50.68	**49.03**	1.889	3.852
Vanadium	51	32.1	33.89	34.16	**33.38**	1.118	3.349

Internal Standard Factors:

Lithium	6	1.016	1.024	1.036	**1.016**	n/a	n/a
Rhodium	103	0.987	1.025	1.033	**0.987**	n/a	n/a
Indium	115	0.981	1.014	1.038	**0.981**	n/a	n/a
Lutetium	175	0.952	0.979	0.985	**0.952**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:35					
Arsenic	75	4.48	4.678	4.368	**4.508**	0.1571	3.484
Beryllium	9	0.4476	0.4868	0.4834	**0.4726**	0.0217	4.598
Cadmium	111	0.9593	0.997	0.9848	**0.9804**	0.0192	1.961
Cadmium	114	1.611	1.695	1.676	**1.661**	0.0438	2.636
Cobalt	59	8.879	8.87	8.311	**8.686**	0.3255	3.747
Lead	206	68.13	68.24	69.79	**68.72**	0.9318	1.356
Lead	207	75.25	76.7	78.07	**76.67**	1.407	1.835
Lead	208	73.13	73.53	74.42	**73.69**	0.6612	0.8972
Molybdenum	95	0.8402	0.7983	0.7978	**0.8121**	0.0244	3
Molybdenum	97	0.7838	0.771	0.8017	**0.7855**	0.0154	1.964
Molybdenum	98	0.8272	0.7742	0.7579	**0.7864**	0.0363	4.609
Nickel	60	17.49	17.71	17.79	**17.66**	0.1565	0.8859
Nickel	62	17.99	18.23	18.45	**18.22**	0.2261	1.241
Selenium	77	1.264	1.626	1.232	**1.374**	0.219	15.94
Selenium	78	0.4028	0.0662	0.122	**0.197**	0.1804	91.57
Selenium	82	0.2494	0.5373	0.4771	**0.4213**	0.1518	36.04
Thallium	203	0.1344	0.1254	0.1296	**0.1298**	0.0045	3.445
Thallium	205	0.1313	0.1227	0.1215	**0.1252**	0.0053	4.273
Vanadium	51	23.31	23.3	22.79	**23.13**	0.2991	1.293

Internal Standard Factors:

Lithium	6	1.003	0.997	0.993	**1.003**	n/a	n/a
Rhodium	103	1.056	1.051	1.047	**1.056**	n/a	n/a
Indium	115	1.037	1.037	1.031	**1.037**	n/a	n/a
Lutetium	175	0.967	0.969	0.99	**0.967**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 14:38					
Arsenic	75	4.299	4.377	4.457	**4.377**	0.079	1.804
Beryllium	9	0.3926	0.3949	0.3739	**0.3871**	0.0115	2.976
Cadmium	111	0.9459	0.9961	1.014	**0.9855**	0.0355	3.603
Cadmium	114	1.61	1.658	1.66	**1.643**	0.028	1.703
Cobalt	59	7.157	7.168	7.189	**7.172**	0.0166	0.2308
Lead	206	64.09	65.86	65.64	**65.2**	0.9638	1.478
Lead	207	72.95	73.47	73.02	**73.15**	0.2837	0.3878
Lead	208	69.43	71.09	70.43	**70.31**	0.8341	1.186
Molybdenum	95	0.7673	0.8389	0.8552	**0.8204**	0.0468	5.699
Molybdenum	97	0.7874	0.857	0.8792	**0.8412**	0.0479	5.692
Molybdenum	98	0.7898	0.8628	0.8238	**0.8254**	0.0365	4.425
Nickel	60	14.12	14.58	14.64	**14.44**	0.2854	1.976
Nickel	62	14.29	15.1	14.7	**14.7**	0.4088	2.782
Selenium	77	1.411	1.386	1.242	**1.346**	0.0913	6.781
Selenium	78	-0.0061	-0.0172	0.0374	**0.0047**	0.0289	611.7
Selenium	82	0.5088	0.4195	0.321	**0.4164**	0.0939	22.56
Thallium	203	0.0948	0.0887	0.0938	**0.0924**	0.0033	3.524
Thallium	205	0.0924	0.095	0.0895	**0.0923**	0.0027	2.979
Vanadium	51	21.97	23.53	22.39	**22.63**	0.808	3.57

Internal Standard Factors:

Lithium	6	0.969	1.007	1.01	**0.969**	n/a	n/a
Rhodium	103	1.046	1.06	1.051	**1.046**	n/a	n/a
Indium	115	1.033	1.029	1.028	**1.033**	n/a	n/a
Lutetium	175	0.977	0.992	0.983	**0.977**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 14:41					
Arsenic	75	0.993	0.9446	0.9969	**0.9781**	0.0291	2.975
Beryllium	9	0.0996	0.0974	0.0938	**0.0969**	0.0029	2.986
Cadmium	111	0.1982	0.2143	0.2196	**0.2107**	0.0112	5.294
Cadmium	114	0.3492	0.3524	0.3607	**0.3541**	0.0059	1.666
Cobalt	59	1.856	1.882	1.897	**1.879**	0.0207	1.101
Lead	206	15.15	15.45	15.05	**15.22**	0.2071	1.361
Lead	207	17.07	17.06	16.94	**17.02**	0.0732	0.43
Lead	208	16.32	16.42	16.23	**16.32**	0.0978	0.5992
Molybdenum	95	0.0973	0.1328	0.115	**0.115**	0.0178	15.44
Molybdenum	97	0.0916	0.1194	0.1237	**0.1115**	0.0174	15.63
Molybdenum	98	0.1086	0.1183	0.1101	**0.1123**	0.0052	4.639
Nickel	60	3.741	3.899	3.899	**3.847**	0.091	2.366
Nickel	62	3.747	3.885	3.902	**3.844**	0.085	2.212
Selenium	77	0.405	0.2685	0.4259	**0.3664**	0.0855	23.33
Selenium	78	-0.3765	-0.0245	-0.0643	**-0.1551**	0.1928	124.3
Selenium	82	0.3416	-0.3135	0.1517	**0.0599**	0.337	562.4
Thallium	203	0.0225	0.0243	0.0268	**0.0245**	0.0022	8.781
Thallium	205	0.0206	0.0213	0.0219	**0.0213**	0.0006	2.842
Vanadium	51	4.825	5.072	5.037	**4.978**	0.1337	2.686

Internal Standard Factors:

Lithium	6	0.986	1.002	1.05	**0.986**	n/a	n/a
Rhodium	103	1.054	1.064	1.032	**1.054**	n/a	n/a
Indium	115	1.06	1.05	1.048	**1.06**	n/a	n/a
Lutetium	175	1.002	0.994	0.997	**1.002**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/5 +50A			Mean	SD	%RSD
TimeStamp		12/7/09 14:44					
Arsenic	75	49.05	50.24	49.04	**49.44**	0.689	1.393
Beryllium	9	46.54	45.31	46.5	**46.11**	0.6992	1.516
Cadmium	111	46.26	48.54	46.24	**47.01**	1.32	2.809
Cadmium	114	48.26	50.09	48.38	**48.91**	1.024	2.095
Cobalt	59	54.83	57.08	54.07	**55.33**	1.569	2.836
Lead	206	116.7	119.3	114.8	**116.9**	2.219	1.898
Lead	207	122	126.9	121.4	**123.4**	3.043	2.465
Lead	208	120.2	123.8	120.2	**121.4**	2.067	1.703
Molybdenum	95	47.81	49.94	48.77	**48.84**	1.068	2.187
Molybdenum	97	47.98	50.32	48.84	**49.05**	1.183	2.413
Molybdenum	98	48.17	51.22	49.34	**49.57**	1.542	3.11
Nickel	60	59.79	63.05	61.06	**61.3**	1.642	2.678
Nickel	62	60.71	62.99	60.38	**61.36**	1.425	2.322
Selenium	77	44.52	46.62	46.05	**45.73**	1.085	2.373
Selenium	78	44.01	47.47	46.02	**45.83**	1.736	3.788
Selenium	82	45.08	48.02	46.84	**46.65**	1.481	3.174
Thallium	203	46.87	48.23	47.14	**47.41**	0.7225	1.524
Thallium	205	47.54	48.63	47.13	**47.76**	0.7746	1.622
Vanadium	51	66.77	69.94	67.37	**68.02**	1.685	2.477

Internal Standard Factors:

Lithium	6	0.93	0.925	0.928	**0.93**	n/a	n/a
Rhodium	103	1.029	1.052	1.031	**1.029**	n/a	n/a
Indium	115	0.996	0.999	0.985	**0.996**	n/a	n/a
Lutetium	175	0.975	0.979	0.958	**0.975**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 14:47					
Arsenic	75	38.64	39.18	38.75	**38.86**	0.2844	0.7319
Beryllium	9	4.033	4.434	4.273	**4.247**	0.2018	4.752
Cadmium	111	4.088	4.28	4.221	**4.197**	0.0986	2.35
Cadmium	114	4.285	4.367	4.346	**4.333**	0.0429	0.9891
Cobalt	59	38.73	39.68	39.13	**39.18**	0.4781	1.22
Lead	206	50.03	51.99	52.55	**51.53**	1.323	2.568
Lead	207	59.53	61.75	61.3	**60.86**	1.176	1.932
Lead	208	55.39	57.45	57.3	**56.71**	1.149	2.026
Molybdenum	95	35.67	37.99	37.83	**37.16**	1.298	3.494
Molybdenum	97	36.23	37.59	38.19	**37.34**	1.008	2.699
Molybdenum	98	36.12	37.93	37.83	**37.29**	1.019	2.732
Nickel	60	47.66	49.47	47.89	**48.34**	0.9883	2.045
Nickel	62	46.97	48.96	47.36	**47.76**	1.053	2.205
Selenium	77	39.22	40.78	40.67	**40.22**	0.8698	2.162
Selenium	78	40.44	40.88	40.92	**40.75**	0.2701	0.6629
Selenium	82	41.64	41.26	41.3	**41.4**	0.2048	0.4946
Thallium	203	37.69	38.32	37.98	**38**	0.3142	0.827
Thallium	205	37.25	39.03	38.37	**38.22**	0.897	2.347
Vanadium	51	41.09	42.13	42.82	**42.01**	0.8733	2.079

Internal Standard Factors:

Lithium	6	1.028	1.023	1.028	**1.028**	n/a	n/a
Rhodium	103	1.028	1.021	1.01	**1.028**	n/a	n/a
Indium	115	1.016	1.01	1.019	**1.016**	n/a	n/a
Lutetium	175	0.962	0.98	0.975	**0.962**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-020 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:50					
Arsenic	75	3.401	3.59	3.539	**3.51**	0.0977	2.783
Beryllium	9	0.4053	0.4248	0.4519	**0.4273**	0.0234	5.476
Cadmium	111	1.219	1.25	1.29	**1.253**	0.0356	2.84
Cadmium	114	1.57	1.606	1.672	**1.616**	0.0516	3.195
Cobalt	59	6.145	6.043	6.081	**6.09**	0.0517	0.8487
Lead	206	65.04	64.22	66.33	**65.2**	1.064	1.631
Lead	207	73.25	71.87	74.11	**73.08**	1.132	1.549
Lead	208	69.94	69.33	71.14	**70.14**	0.9184	1.309
Molybdenum	95	2.178	1.752	1.567	**1.832**	0.3133	17.1
Molybdenum	97	2.184	1.79	1.556	**1.843**	0.3172	17.21
Molybdenum	98	2.194	1.761	1.575	**1.843**	0.3176	17.23
Nickel	60	14.64	14.6	14.92	**14.72**	0.1746	1.186
Nickel	62	15.03	14.81	15.55	**15.13**	0.3823	2.527
Selenium	77	1.426	1.151	1.289	**1.289**	0.1371	10.64
Selenium	78	0.3557	-0.2237	0.184	**0.1053**	0.2976	282.6
Selenium	82	0.4442	0.5553	0.4488	**0.4828**	0.0629	13.02
Thallium	203	0.101	0.075	0.0758	**0.0839**	0.0148	17.65
Thallium	205	0.0919	0.0758	0.0743	**0.0807**	0.0098	12.14
Vanadium	51	19.44	19.12	20.28	**19.61**	0.6006	3.062

Internal Standard Factors:

Lithium	6	0.942	0.977	1.034	**0.942**	n/a	n/a
Rhodium	103	1.054	1.05	1.053	**1.054**	n/a	n/a
Indium	115	1.047	1.04	1.06	**1.047**	n/a	n/a
Lutetium	175	1.006	0.991	1.003	**1.006**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-021 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:53					
Arsenic	75	20.69	20.88	20.83	**20.8**	0.0961	0.4619
Beryllium	9	0.4202	0.3966	0.406	**0.4076**	0.0119	2.922
Cadmium	111	4.218	4.213	4.113	**4.181**	0.0594	1.421
Cadmium	114	16.85	17.04	16.94	**16.94**	0.0962	0.5679
Cobalt	59	10.14	10.45	10.17	**10.25**	0.173	1.687
Lead	206	731.8	759.3	755.1	**748.7**	14.82	1.98
Lead	207	841.2	853.5	840.7	**845.2**	7.24	0.8567
Lead	208	789.4	805.7	798.7	**797.9**	8.142	1.02
Molybdenum	95	3.216	3.176	3.238	**3.21**	0.0317	0.9873
Molybdenum	97	3.276	3.311	3.276	**3.287**	0.0203	0.6188
Molybdenum	98	3.199	3.171	3.17	**3.18**	0.0163	0.5117
Nickel	60	33.22	34.02	32.9	**33.38**	0.5755	1.724
Nickel	62	34.47	33.98	33.39	**33.95**	0.5395	1.589
Selenium	77	1.976	2.325	1.726	**2.009**	0.3008	14.97
Selenium	78	0.1366	1.121	0.8983	**0.7188**	0.5164	71.84
Selenium	82	1.866	1.433	1.493	**1.597**	0.2342	14.66
Thallium	203	0.2673	0.2662	0.2511	**0.2616**	0.009	3.455
Thallium	205	0.2636	0.2604	0.2583	**0.2607**	0.0027	1.025
Vanadium	51	31.97	29.75	30.27	**30.66**	1.161	3.786

Internal Standard Factors:

Lithium	6	1.027	1.023	1.006	**1.027**	n/a	n/a
Rhodium	103	1.095	1.095	1.093	**1.095**	n/a	n/a
Indium	115	0.875	0.858	0.855	**0.875**	n/a	n/a
Lutetium	175	1.01	1.022	1.016	**1.01**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-022 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 14:57					
Arsenic	75	4.942	5.169	5.302	**5.137**	0.1817	3.538
Beryllium	9	0.4799	0.4972	0.523	**0.5**	0.0217	4.336
Cadmium	111	2.538	2.498	2.511	**2.515**	0.0205	0.8134
Cadmium	114	3.283	3.272	3.159	**3.238**	0.0688	2.125
Cobalt	59	8.925	9.145	8.97	**9.014**	0.116	1.287
Lead	206	196.7	198.2	201.4	**198.7**	2.419	1.217
Lead	207	221.6	220.9	222.6	**221.7**	0.8536	0.385
Lead	208	212.2	213	215.6	**213.6**	1.78	0.8332
Molybdenum	95	1.452	1.433	1.472	**1.452**	0.0198	1.361
Molybdenum	97	1.411	1.447	1.495	**1.451**	0.0421	2.903
Molybdenum	98	1.44	1.451	1.455	**1.449**	0.0079	0.5435
Nickel	60	24.52	24.56	25.65	**24.91**	0.6387	2.564
Nickel	62	24.9	24.62	26.1	**25.21**	0.7873	3.123
Selenium	77	1.478	1.603	1.784	**1.622**	0.1539	9.488
Selenium	78	-0.0198	0.0178	0.1511	**0.0497**	0.0898	180.7
Selenium	82	0.5581	0.8869	1.029	**0.8246**	0.2415	29.28
Thallium	203	0.1258	0.1354	0.1273	**0.1295**	0.0051	3.968
Thallium	205	0.1317	0.1314	0.1316	**0.1316**	0.0001	0.1112
Vanadium	51	25.57	26.62	26.02	**26.07**	0.5289	2.029

Internal Standard Factors:

Lithium	6	0.961	0.961	1.044	**0.961**	n/a	n/a
Rhodium	103	1.072	1.062	1.067	**1.072**	n/a	n/a
Indium	115	1.059	1.041	1.035	**1.059**	n/a	n/a
Lutetium	175	0.995	0.985	0.997	**0.995**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV7			Mean	SD	%RSD
TimeStamp		12/7/09 15:00					
Arsenic	75	24.7	25.41	24.45	**24.85**	0.496	1.996
Beryllium	9	26.23	27.55	27.3	**27.03**	0.7017	2.596
Cadmium	111	25.2	25.83	25.58	**25.54**	0.3138	1.229
Cadmium	114	25.55	25.82	25.74	**25.7**	0.1342	0.522
Cobalt	59	25.29	25.1	25.36	**25.25**	0.1319	0.5226
Lead	206	25.97	26.46	26.44	**26.29**	0.2794	1.063
Lead	207	25.91	26.32	26.54	**26.26**	0.3185	1.213
Lead	208	25.93	26.51	26.49	**26.31**	0.3267	1.242
Molybdenum	95	24.7	25.45	25.77	**25.31**	0.547	2.162
Molybdenum	97	24.92	25.77	25.93	**25.54**	0.5427	2.125
Molybdenum	98	25.13	25.85	26.05	**25.67**	0.48	1.87
Nickel	60	24.6	24.74	25.47	**24.93**	0.469	1.881
Nickel	62	24.56	25.5	24.9	**24.98**	0.4774	1.911
Selenium	77	25.14	26.08	25.88	**25.7**	0.4937	1.921
Selenium	78	23.95	25.3	25.85	**25.03**	0.9808	3.918
Selenium	82	25.22	25.56	24.39	**25.06**	0.6034	2.408
Thallium	203	25.57	26.39	26.12	**26.03**	0.4208	1.617
Thallium	205	25.54	26.73	26.19	**26.15**	0.5934	2.269
Vanadium	51	24.79	25.1	25.17	**25.02**	0.1997	0.7983

Internal Standard Factors:

Lithium	6	1.036	1.055	1.028	**1.036**	n/a	n/a
Rhodium	103	1.063	1.042	1.052	**1.063**	n/a	n/a
Indium	115	1.057	1.051	1.046	**1.057**	n/a	n/a
Lutetium	175	1.006	1.028	1.03	**1.006**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09B
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB7			Mean	SD	%RSD
TimeStamp		12/7/09 15:03					
Arsenic	75	-0.0458	-0.069	-0.0267	**-0.0472**	0.0212	44.88
Beryllium	9	0.0157	0.013	0.0156	**0.0148**	0.0016	10.56
Cadmium	111	0.0201	0.0123	0.0177	**0.0167**	0.004	24.09
Cadmium	114	0.0196	0.0271	0.0245	**0.0238**	0.0038	15.95
Cobalt	59	0.0163	0.0169	0.0176	**0.0169**	0.0006	3.822
Lead	206	0.0599	0.0695	0.0728	**0.0674**	0.0067	9.933
Lead	207	0.0539	0.0718	0.0745	**0.0667**	0.0112	16.82
Lead	208	0.0608	0.065	0.0724	**0.0661**	0.0059	8.867
Molybdenum	95	0.3273	0.2131	0.1483	**0.2296**	0.0906	39.47
Molybdenum	97	0.3367	0.1978	0.1407	**0.2251**	0.1008	44.79
Molybdenum	98	0.3253	0.203	0.1479	**0.2254**	0.0908	40.28
Nickel	60	0.0377	0.0363	0.0311	**0.0351**	0.0035	9.929
Nickel	62	-0.038	-0.0302	0.021	**-0.0158**	0.032	203.3
Selenium	77	0.4403	0.2696	0.224	**0.3113**	0.114	36.62
Selenium	78	-0.0493	0.5296	0.3781	**0.2861**	0.3002	104.9
Selenium	82	0.0726	-0.1809	-0.0762	**-0.0615**	0.1274	207.2
Thallium	203	0.0252	0.0278	0.025	**0.026**	0.0016	6.134
Thallium	205	0.0225	0.0252	0.0238	**0.0238**	0.0013	5.554
Vanadium	51	0.0295	0.0174	0.0071	**0.018**	0.0112	62.34

Internal Standard Factors:

Lithium	6	0.993	1.033	1.042	**0.993**	n/a	n/a
Rhodium	103	1.085	1.077	1.074	**1.085**	n/a	n/a
Indium	115	1.089	1.066	1.055	**1.089**	n/a	n/a
Lutetium	175	1.042	1.039	1.029	**1.042**	n/a	n/a

Service Request # K0911120 (HCl)_____
Calibration _____120709C_____
QC in calibration__120709C_____
QC Service Request # K0911120_____
STARLIMS Batch # 182068_____

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		

Comments: Report Ag-109.

Primary Review by _____ Date 12/8/09
Secondary Review by _____ Date 12/8/09
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	SOIL CRA	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	K0909926-MB 1/5	Unknown	0 kg	0 ml	1.00	1	1	1	145
11	LCSS K0909926 1/50	Unknown	0 kg	0 ml	1.00	1	1	2	145
12	K0909926-002 1/5	Unknown	0 kg	0 ml	1.00	1	1	3	145
13	K0909926-002 1/5D	Unknown	0 kg	0 ml	1.00	1	1	4	145
14	K0909926-002 1/25S	Unknown	0 kg	0 ml	1.00	1	1	5	145
15	K0909926-001 1/5	Unknown	0 kg	0 ml	1.00	1	1	6	145
16	K0909926-003 1/5	Unknown	0 kg	0 ml	1.00	1	1	7	145
17	K0909926-004 1/5	Unknown	0 kg	0 ml	1.00	1	1	8	145
18	K0909926-005 1/5	Unknown	0 kg	0 ml	1.00	1	1	9	145
19	K0909926-006 1/5	Unknown	0 kg	0 ml	1.00	1	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	K0909926-007 1/5	Unknown	0 kg	0 ml	1.00	1	1	11	145
23	K0909926-007 1/5D	Unknown	0 kg	0 ml	1.00	1	1	12	145
24	K0909926-007 1/25S	Unknown	0 kg	0 ml	1.00	1	2	1	145
25	K0909926-008 1/5	Unknown	0 kg	0 ml	1.00	1	2	2	145
26	K0909926-009 1/5	Unknown	0 kg	0 ml	1.00	1	2	3	145
27	K0909926-010 1/5	Unknown	0 kg	0 ml	1.00	1	2	4	145
28	K0909926-011 1/5	Unknown	0 kg	0 ml	1.00	1	2	5	145
29	K0910575-MB 1/5	Unknown	0 kg	0 ml	1.00	1	2	6	145
30	LCSS K0910575 1/50	Unknown	0 kg	0 ml	1.00	1	2	7	145
31	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
32	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145
33	K09010575-001 1/5	Unknown	0 kg	0 ml	1.00	1	2	8	145
34	K09010575-001 1/5D	Unknown	0 kg	0 ml	1.00	1	2	9	145
35	K09010575-001 1/25L	Unknown	0 kg	0 ml	1.00	1	2	10	145
36	K09010575-001 1/5 +10/50A	Unknown	0 kg	0 ml	1.00	1	2	11	145
37	K09010575-001 1/25S	Unknown	0 kg	0 ml	1.00	1	2	12	145
38	K09010575-002 1/5	Unknown	0 kg	0 ml	1.00	1	3	1	145
39	K09010575-003 1/5	Unknown	0 kg	0 ml	1.00	1	3	2	145
40	K09010575-004 1/5	Unknown	0 kg	0 ml	1.00	1	3	3	145
41	K09010575-005 1/5	Unknown	0 kg	0 ml	1.00	1	3	4	145
42	K09010575-006 1/5	Unknown	0 kg	0 ml	1.00	1	3	5	145
43	CCV4	Unknown	0 kg	0 ml	1.00	0	1	2	145
44	CCB4	Unknown	0 kg	0 ml	1.00	0	1	1	145
45	K09010575-007 1/5	Unknown	0 kg	0 ml	1.00	1	3	6	145
46	K09010575-008 1/5	Unknown	0 kg	0 ml	1.00	1	3	7	145
47	K09010575-009 1/5	Unknown	0 kg	0 ml	1.00	1	3	8	145
48	K09010575-010 1/5	Unknown	0 kg	0 ml	1.00	1	3	9	145

49	K09010575-011 1/5	Unknown	0 kg	0 ml	1.00	1	3	10	145
50	K09010575-012 1/5	Unknown	0 kg	0 ml	1.00	1	3	11	145
51	K09010575-013 1/5	Unknown	0 kg	0 ml	1.00	1	3	12	145
52	K09010575-014 1/5	Unknown	0 kg	0 ml	1.00	1	4	1	145
53	K09010575-015 1/5	Unknown	0 kg	0 ml	1.00	1	4	2	145
54	K09010575-016 1/5	Unknown	0 kg	0 ml	1.00	1	4	3	145
55	CCV5	Unknown	0 kg	0 ml	1.00	0	1	2	145
56	CCB5	Unknown	0 kg	0 ml	1.00	0	1	1	145
57	K09010575-017 1/5	Unknown	0 kg	0 ml	1.00	1	4	4	145
58	K09010575-018 1/5	Unknown	0 kg	0 ml	1.00	1	4	5	145
59	K09010575-019 1/5	Unknown	0 kg	0 ml	1.00	1	4	6	145
60	K09010575-020 1/5	Unknown	0 kg	0 ml	1.00	1	4	7	145
61	K0910722-MB 1/5	Unknown	0 kg	0 ml	1.00	1	4	8	145
62	LCSS K0910722 1/50	Unknown	0 kg	0 ml	1.00	1	4	9	145
63	K0910722-014 1/5	Unknown	0 kg	0 ml	1.00	1	4	10	145
64	K0910722-014 1/5D	Unknown	0 kg	0 ml	1.00	1	4	11	145
65	K0910722-014 1/25L	Unknown	0 kg	0 ml	1.00	1	4	12	145
66	K0910722-014 1/5	Unknown	0 kg	0 ml	1.00	1	5	1	145
67	CCV6	Unknown	0 kg	0 ml	1.00	0	1	2	145
68	CCB6	Unknown	0 kg	0 ml	1.00	0	1	1	145
69	K0910722-014 1/25S	Unknown	0 kg	0 ml	1.00	1	5	2	145
70	K0910722-001 1/5	Unknown	0 kg	0 ml	1.00	1	5	3	145
71	K0910722-002 1/5	Unknown	0 kg	0 ml	1.00	1	5	4	145
72	K0910722-003 1/5	Unknown	0 kg	0 ml	1.00	1	5	5	145
73	K0910722-004 1/5	Unknown	0 kg	0 ml	1.00	1	5	6	145
74	K0910722-005 1/5	Unknown	0 kg	0 ml	1.00	1	5	7	145
75	K0910722-006 1/5	Unknown	0 kg	0 ml	1.00	1	5	8	145
76	K0910722-007 1/5	Unknown	0 kg	0 ml	1.00	1	5	9	145
77	K0910722-008 1/5	Unknown	0 kg	0 ml	1.00	1	5	10	145
78	K0910722-009 1/5	Unknown	0 kg	0 ml	1.00	1	5	11	145
79	CCV7	Unknown	0 kg	0 ml	1.00	0	1	2	145
80	CCB7	Unknown	0 kg	0 ml	1.00	0	1	1	145
81	K0910722-010 1/5	Unknown	0 kg	0 ml	1.00	1	5	12	145
82	K0910722-011 1/5	Unknown	0 kg	0 ml	1.00	2	1	1	145
83	K0910722-012 1/5	Unknown	0 kg	0 ml	1.00	2	1	2	145
84	K0910722-013 1/5	Unknown	0 kg	0 ml	1.00	2	1	3	145
85	K0910722-015 1/5	Unknown	0 kg	0 ml	1.00	2	1	4	145
86	K0910722-016 1/5	Unknown	0 kg	0 ml	1.00	2	1	5	145
87	K0910722-017 1/5	Unknown	0 kg	0 ml	1.00	2	1	6	145
88	K0910722-018 1/5	Unknown	0 kg	0 ml	1.00	2	1	7	145
89	K0910722-019 1/5	Unknown	0 kg	0 ml	1.00	2	1	8	145
90	CCV8	Unknown	0 kg	0 ml	1.00	0	1	2	145
91	CCB8	Unknown	0 kg	0 ml	1.00	0	1	1	145
92	K0911037-MB 1/5	Unknown	0 kg	0 ml	1.00	2	1	9	145
93	LCSS K0911037 1/50	Unknown	0 kg	0 ml	1.00	2	1	10	145
94	K0911037-001 1/5	Unknown	0 kg	0 ml	1.00	2	1	11	145
95	K0911037-001 1/5D	Unknown	0 kg	0 ml	1.00	2	1	12	145
96	K0911037-001 1/25L	Unknown	0 kg	0 ml	1.00	2	2	1	145
97	K0911037-001 1/5	Unknown	0 kg	0 ml	1.00	2	2	2	145
98	K0911037-001 1/25S	Unknown	0 kg	0 ml	1.00	2	2	3	145
99	K0911037-002 1/5	Unknown	0 kg	0 ml	1.00	2	2	4	145

100	K0911037-003 1/5	Unknown	0 kg	0 ml	1.00	2	2	5	145
101	K0911037-004 1/5	Unknown	0 kg	0 ml	1.00	2	2	6	145
102	CCV9	Unknown	0 kg	0 ml	1.00	0	1	2	145
103	CCB9	Unknown	0 kg	0 ml	1.00	0	1	1	145
104	K0911037-005 1/5	Unknown	0 kg	0 ml	1.00	2	2	7	145
105	K0911037-006 1/5	Unknown	0 kg	0 ml	1.00	2	2	8	145
106	K0911037-007 1/5	Unknown	0 kg	0 ml	1.00	2	2	9	145
107	K0911037-008 1/5	Unknown	0 kg	0 ml	1.00	2	2	10	145
108	K0911037-009 1/5	Unknown	0 kg	0 ml	1.00	2	2	11	145
109	K0911037-010 1/5	Unknown	0 kg	0 ml	1.00	2	2	12	145
110	K0911037-011 1/5	Unknown	0 kg	0 ml	1.00	2	3	1	145
111	K0911037-012 1/5	Unknown	0 kg	0 ml	1.00	2	3	2	145
112	K0911037-013 1/5	Unknown	0 kg	0 ml	1.00	2	3	3	145
113	K0911037-014 1/5	Unknown	0 kg	0 ml	1.00	2	3	4	145
114	CCV10	Unknown	0 kg	0 ml	1.00	0	1	2	145
115	CCB10	Unknown	0 kg	0 ml	1.00	0	1	1	145
116	K0911037-015 1/5	Unknown	0 kg	0 ml	1.00	2	3	5	145
117	K0911037-016 1/5	Unknown	0 kg	0 ml	1.00	2	3	6	145
118	K0911037-017 1/5	Unknown	0 kg	0 ml	1.00	2	3	7	145
119	K0911037-018 1/5	Unknown	0 kg	0 ml	1.00	2	3	8	145
120	K0911037-019 1/5	Unknown	0 kg	0 ml	1.00	2	3	9	145
121	K0911037-020 1/5	Unknown	0 kg	0 ml	1.00	2	3	10	145
122	K0911120-MB 1/5	Unknown	0 kg	0 ml	1.00	2	3	11	145
123	LCSS K0911120 1/50	Unknown	0 kg	0 ml	1.00	2	3	12	145
124	K0911120-002 1/5	Unknown	0 kg	0 ml	1.00	2	4	1	145
125	K0911120-002 1/5D	Unknown	0 kg	0 ml	1.00	2	4	2	145
126	CCV11	Unknown	0 kg	0 ml	1.00	0	1	2	145
127	CCB11	Unknown	0 kg	0 ml	1.00	0	1	1	145
128	K0911120-002 1/25L	Unknown	0 kg	0 ml	1.00	2	4	3	145
129	K0911120-002 1/5	Unknown	0 kg	0 ml	1.00	2	4	4	145
130	K0911120-002 1/25S	Unknown	0 kg	0 ml	1.00	2	4	5	145
131	K0911120-001 1/5	Unknown	0 kg	0 ml	1.00	2	4	6	145
132	K0911120-003 1/5	Unknown	0 kg	0 ml	1.00	2	4	7	145
133	K0911120-004 1/5	Unknown	0 kg	0 ml	1.00	2	4	8	145
134	K0911120-005 1/5	Unknown	0 kg	0 ml	1.00	2	4	9	145
135	K0911120-006 1/5	Unknown	0 kg	0 ml	1.00	2	4	10	145
136	K0911120-007 1/5	Unknown	0 kg	0 ml	1.00	2	4	11	145
137	K0911120-008 1/5	Unknown	0 kg	0 ml	1.00	2	4	12	145
138	CCV12	Unknown	0 kg	0 ml	1.00	0	1	2	145
139	CCB12	Unknown	0 kg	0 ml	1.00	0	1	1	145
140	K0911120-009 1/5	Unknown	0 kg	0 ml	1.00	2	5	1	145
141	K0911120-010 1/5	Unknown	0 kg	0 ml	1.00	2	5	2	145
142	K0911120-011 1/5	Unknown	0 kg	0 ml	1.00	2	5	3	145
143	K0911120-012 1/5	Unknown	0 kg	0 ml	1.00	2	5	4	145
144	K0911120-013 1/5	Unknown	0 kg	0 ml	1.00	2	5	5	145
145	K0911120-014 1/5	Unknown	0 kg	0 ml	1.00	2	5	6	145
146	K0911120-015 1/5	Unknown	0 kg	0 ml	1.00	2	5	7	145
147	K0911120-016 1/5	Unknown	0 kg	0 ml	1.00	2	5	8	145
148	K0911120-017 1/5	Unknown	0 kg	0 ml	1.00	2	5	9	145
149	K0911120-018 1/5	Unknown	0 kg	0 ml	1.00	2	5	10	145
150	CCV13	Unknown	0 kg	0 ml	1.00	0	1	2	145

151	CCB13	Unknown	0 kg	0 ml	1.00	0	1	1	145
152	K0911120-MB 1/5	Unknown	0 kg	0 ml	1.00	2	5	11	145
153	LCSS K0911120 1/50	Unknown	0 kg	0 ml	1.00	2	5	12	145
154	K0911120-019 1/5	Unknown	0 kg	0 ml	1.00	3	1	1	145
155	K0911120-019 1/5D	Unknown	0 kg	0 ml	1.00	3	1	2	145
156	K0911120-019 1/25L	Unknown	0 kg	0 ml	1.00	3	1	3	145
157	K0911120-019 1/5	Unknown	0 kg	0 ml	1.00	3	1	4	145
158	K0911120-019 1/25S	Unknown	0 kg	0 ml	1.00	3	1	5	145
159	K0911120-020 1/5	Unknown	0 kg	0 ml	1.00	3	1	6	145
160	K0911120-021 1/5	Unknown	0 kg	0 ml	1.00	3	1	7	145
161	K0911120-022 1/5	Unknown	0 kg	0 ml	1.00	3	1	8	145
162	CCV14	Unknown	0 kg	0 ml	1.00	0	1	2	145
163	CCB14	Unknown	0 kg	0 ml	1.00	0	1	1	145
164	K0910936-MB 1/5	Unknown	0 kg	0 ml	1.00	3	1	9	145
165	LCSS K0910936 1/50	Unknown	0 kg	0 ml	1.00	3	1	10	145
166	K0910936-003 1/5	Unknown	0 kg	0 ml	1.00	3	1	11	145
167	K0910936-003 1/5D	Unknown	0 kg	0 ml	1.00	3	1	12	145
168	K0910936-003 1/25S	Unknown	0 kg	0 ml	1.00	3	2	1	145
169	K0910936-001 1/5	Unknown	0 kg	0 ml	1.00	3	2	2	145
170	K0910936-002 1/5	Unknown	0 kg	0 ml	1.00	3	2	3	145
171	K0910936-004 1/5	Unknown	0 kg	0 ml	1.00	3	2	4	145
172	K0910936-005 1/5	Unknown	0 kg	0 ml	1.00	3	2	5	145
173	K0910936-006 1/5	Unknown	0 kg	0 ml	1.00	3	2	6	145
174	CCV15	Unknown	0 kg	0 ml	1.00	0	1	2	145
175	CCB15	Unknown	0 kg	0 ml	1.00	0	1	1	145
176	K0911476-MB 1/5	Unknown	0 kg	0 ml	1.00	3	2	7	145
177	LCSS K0911476 1/50	Unknown	0 kg	0 ml	1.00	3	2	8	145
178	K0911476-002 1/5	Unknown	0 kg	0 ml	1.00	3	2	9	145
179	K0911476-002 1/5D	Unknown	0 kg	0 ml	1.00	3	2	10	145
180	K0911476-002 1/25S	Unknown	0 kg	0 ml	1.00	3	2	11	145
181	K0911476-001 1/5	Unknown	0 kg	0 ml	1.00	3	2	12	145
182	CCV16	Unknown	0 kg	0 ml	1.00	0	1	2	145
183	CCB16	Unknown	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Sample Configuration

Sample	Configuration	Date
All Samples	acqmet11	8:02:57 12/7/09

Instrument Setup - Configurations

Configuration Name - acqmet11
Description - PQExcell CCT Sim Default
Date - 8:02:57 12/7/09
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	-480.00
Lens1	-5.00
Lens2	-75.00
Lens3	5.00
Pole Bias	3.00
Sampling Depth	350.00
Horizontal	-40.00
Vertical	65.00
Cool	13.00
Auxiliary	0.60
Nebuliser	0.82
Forward power	1,360.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-34.00
Focus	10.00

ExCell Mass Calibration **Date: 12/7/2009**

Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include
6.015	1316	0.665	-0.026	TRUE
7.016	1563	0.665	-0.055	TRUE
9.012	2083	0.665	-0.003	TRUE
23.985	5896	0.665	0.036	TRUE
24.986	6150	0.716	0.035	TRUE
25.983	6397	0.716	0.011	TRUE
43.956	10966	0.767	0.02	TRUE
45.953	11467	0.716	-0.006	TRUE
51.94	12994	0.767	0.015	TRUE
53.949	13501	0.767	0.001	TRUE
55.935	14008	0.767	0.01	TRUE
56.935	14268	0.767	0.032	TRUE
57.934	14515	0.767	0.005	TRUE
58.933	14762	0.767	-0.022	TRUE
75.92	19085	0.818	-0.005	TRUE
77.919	19592	0.818	-0.009	TRUE
112.904	28480	0.869	-0.053	TRUE
114.904	29000	0.869	-0.008	TRUE
128.905	32562	0.868	-0.013	TRUE
130.905	33076	0.817	0.006	TRUE
131.905	33329	0.868	0.001	TRUE
139.905	35370	0.868	0.018	TRUE
141.908	35877	0.868	0.006	TRUE
205.974	52199	0.816	0.016	TRUE
206.976	52446	0.816	-0.017	TRUE
207.977	52706	0.816	0.002	TRUE
208.98	52959	0.867	-0.009	TRUE
238.051	60376	0.816	0.011	TRUE

SHORT TERM STABILITY 12-07-09.vge

Excluded In Calib | Excluded In Results | Not Par Ex Lev 2 | Multi Element | Non Linear | Internal Standard | Standard Addition

Uncorrected ICPS Per Mass

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

Run	Label	TimeStamp	50Kg	7Li	9Be	59Co	115In	208Pb
1	Stability 12/07/09	12/7/2009 8:08:40 A	(P)0.167	(P)15491.729	(P)4061.911	(P)36519.961	(P)44818.704	(P)15330.222
2	Stability 12/07/09	12/7/2009 8:09:42 A	(P)0.000	(P)16061.024	(P)4131.931	(P)36880.901	(P)46156.454	(P)15532.940
3	Stability 12/07/09	12/7/2009 8:10:44 A	(P)0.000	(P)15849.454	(P)4065.746	(P)36298.736	(P)45869.358	(P)15209.593
4	Stability 12/07/09	12/7/2009 8:11:46 A	(P)0.167	(P)15997.119	(P)4119.762	(P)36631.924	(P)46100.270	(P)15410.140
5	Stability 12/07/09	12/7/2009 8:12:48 A	(P)0.000	(P)16285.444	(P)4217.290	(P)36389.470	(P)46212.134	(P)15272.326
	Mean of Stability 12/07	12/7/2009 8:08:40 A	(P)0.067	(P)15936.954	(P)4119.328	(P)36544.198	(P)45831.384	(P)15351.044
	SD of Stability 12/07/09		(P)0.091	(P)294.253	(P)63.094	(P)226.850	(P)580.927	(P)125.715
	%RSD of Stability 12		(P)136.931	(P)1.846	(P)1.532	(P)0.621	(P)1.268	(P)0.819

Run	Label	TimeStamp	209Bi	206Hg	238U
1	Stability 12/07/09	12/7/2009 8:08:40 A	(P)24798.507	(P)0.000	(P)26438.787
2	Stability 12/07/09	12/7/2009 8:09:42 A	(P)24702.840	(P)0.000	(P)26466.664
3	Stability 12/07/09	12/7/2009 8:10:44 A	(P)24477.452	(P)0.000	(P)26007.326
4	Stability 12/07/09	12/7/2009 8:11:46 A	(P)24302.990	(P)0.000	(P)26056.581
5	Stability 12/07/09	12/7/2009 8:12:48 A	(P)24268.095	(P)0.167	(P)26146.747
	Mean of Stability 12/07	12/7/2009 8:08:40 A	(P)24509.977	(P)0.033	(P)26223.221
	SD of Stability 12/07/09		(P)236.037	(P)0.075	(P)215.616
	%RSD of Stability 12		(P)0.963	(P)223.607	(P)0.822

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		Cal. Blk			Mean	SD	%RSD
TimeStamp		12/7/09 15:38					
Antimony	121	-0.0004	0.0064	-0.0059	**0**	0.0062	0
Antimony	123	-0.0022	-0.0003	0.0026	**0**	0.0024	0
Silver	107	0.0017	-0.0018	0.0001	**0**	0.0018	0
Silver	109	0.0007	-0.0003	-0.0004	**0**	0.0007	0

Internal Standard Factors:

Rhodium	103	1.015	0.998	0.987	**1.015**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		Cal. Stn			Mean	SD	%RSD
TimeStamp		12/7/09 15:40					
Antimony	121	25.3	24.65	25.05	**25**	0.3232	1.293
Antimony	123	25.32	24.74	24.94	**25**	0.296	1.184
Silver	107	25.22	24.88	24.9	**25**	0.1896	0.7584
Silver	109	25.21	24.66	25.13	**25**	0.2983	1.193

Internal Standard Factors:

Rhodium	103	0.997	0.959	0.968	**0.997**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		12/7/09 15:41					
Antimony	121	25.45	25.41	24.81	**25.22**	0.3572	1.416
Antimony	123	25.19	25.32	24.59	**25.04**	0.3882	1.55
Silver	107	13.54	13.53	13.41	**13.49**	0.0708	0.5251
Silver	109	13.56	13.64	13.35	**13.52**	0.1526	1.129

Internal Standard Factors:

Rhodium	103	0.988	0.983	0.964	**0.988**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV1			Mean	SD	%RSD
TimeStamp		12/7/09 15:43					
Antimony	121	25.4	24.58	24.98	**24.99**	0.4116	1.647
Antimony	123	25.38	24.76	25.03	**25.05**	0.3107	1.24
Silver	107	25.24	24.43	24.72	**24.8**	0.4108	1.657
Silver	109	25.48	24.69	24.75	**24.97**	0.4442	1.779

Internal Standard Factors:

Rhodium	103	1.032	0.991	0.994	**1.032**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		ICB1			Mean	SD	%RSD
TimeStamp		12/7/09 15:46					
Antimony	121	-0.0054	-0.0066	-0.0115	**-0.0078**	0.0032	41.46
Antimony	123	-0.0018	-0.006	-0.009	**-0.0056**	0.0036	64.99
Silver	107	0.0076	0.0055	0.0078	**0.007**	0.0013	18.2
Silver	109	0.0054	0.0053	0.0043	**0.005**	0.0006	12.08

Internal Standard Factors:

Rhodium	103	1.038	1.014	1.009	**1.038**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB1			Mean	SD	%RSD
TimeStamp		12/7/09 15:48					
Antimony	121	-0.0128	-0.0149	-0.0202	**-0.016**	0.0038	23.9
Antimony	123	-0.016	-0.0149	-0.0271	**-0.0193**	0.0067	34.87
Silver	107	0.0022	0.001	0.0025	**0.0019**	0.0008	42.54
Silver	109	0.0005	-0.0016	0.0006	**-0.0002**	0.0012	686.1

Internal Standard Factors:

Rhodium	103	1.008	1.004	1.01	**1.008**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		SOIL CRA			Mean	SD	%RSD
TimeStamp		12/7/09 15:50					
Antimony	121	0.1166	0.1104	0.1098	**0.1123**	0.0038	3.38
Antimony	123	0.1085	0.1002	0.1004	**0.103**	0.0048	4.617
Silver	107	0.049	0.0503	0.0485	**0.0493**	0.0009	1.906
Silver	109	0.0431	0.0403	0.047	**0.0435**	0.0034	7.731

Internal Standard Factors:

Rhodium	103	1.092	1.067	1.05	**1.092**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		ICSA			Mean	SD	%RSD
TimeStamp		12/7/09 15:53					
Antimony	121	0.0976	0.09	0.0878	**0.0918**	0.0051	5.57
Antimony	123	0.1034	0.0963	0.0842	**0.0946**	0.0097	10.27
Silver	107	0.0577	0.0596	0.0546	**0.0573**	0.0025	4.327
Silver	109	0.0566	0.0536	0.0542	**0.0548**	0.0016	2.928

Internal Standard Factors:

Rhodium	103	1.201	1.183	1.162	**1.201**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		ICSAB			Mean	SD	%RSD
TimeStamp		12/7/09 15:56					
Antimony	121	0.0822	0.0768	0.0723	**0.0771**	0.005	6.421
Antimony	123	0.0872	0.0781	0.0694	**0.0782**	0.0089	11.38
Silver	107	13.29	12.99	13.19	**13.16**	0.1519	1.154
Silver	109	13.2	13	13.15	**13.12**	0.1049	0.8

Internal Standard Factors:

Rhodium	103	1.181	1.157	1.157	**1.181**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-MB 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 15:59					
Antimony	121	-0.0623	-0.0615	-0.0603	**-0.0614**	0.001	1.654
Antimony	123	-0.0607	-0.0612	-0.0604	**-0.0608**	0.0004	0.7167
Silver	107	0.0027	0.003	0.0029	**0.0029**	0.0001	4.865
Silver	109	-0.0002	-0.0006	0.0033	**0.0009**	0.0022	253

Internal Standard Factors:

Rhodium	103	1.046	1.025	1.047	**1.046**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0909926 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 16:00					
Antimony	121	17.34	17.28	17.11	**17.24**	0.1211	0.7025
Antimony	123	17.3	17.12	16.87	**17.1**	0.2119	1.24
Silver	107	17.1	16.86	16.97	**16.98**	0.1226	0.722
Silver	109	17.3	17.19	16.88	**17.13**	0.2206	1.288

Internal Standard Factors:

Rhodium	103	1.08	1.062	1.047	**1.08**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-002 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:04					
Antimony	121	0.1529	0.1696	0.1406	**0.1544**	0.0146	9.423
Antimony	123	0.1533	0.1784	0.1378	**0.1565**	0.0205	13.12
Silver	107	0.264	0.2748	0.249	**0.2626**	0.013	4.933
Silver	109	0.2282	0.2243	0.1977	**0.2167**	0.0166	7.675

Internal Standard Factors:

Rhodium	103	1.109	1.153	1.082	**1.109**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-002 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 16:06					
Antimony	121	0.1361	0.1443	0.1481	**0.1429**	0.0062	4.313
Antimony	123	0.1518	0.1565	0.1255	**0.1446**	0.0167	11.54
Silver	107	0.2252	0.2412	0.2546	**0.2403**	0.0147	6.134
Silver	109	0.2032	0.1994	0.195	**0.1992**	0.0041	2.044

Internal Standard Factors:

Rhodium	103	1.114	1.113	1.113	**1.114**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-002 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 16:09					
Antimony	121	7.723	7.745	7.66	**7.709**	0.0438	0.5677
Antimony	123	7.735	7.688	7.648	**7.69**	0.0435	0.5658
Silver	107	4.161	4.125	4.095	**4.127**	0.0329	0.7974
Silver	109	4.123	4.076	4.109	**4.103**	0.0239	0.5821

Internal Standard Factors:

Rhodium	103	1.055	1.047	1.043	**1.055**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-001 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:12					
Antimony	121	0.2272	0.1995	0.2087	**0.2118**	0.0141	6.669
Antimony	123	0.2117	0.2097	0.2164	**0.2126**	0.0034	1.621
Silver	107	0.445	0.4289	0.4458	**0.4399**	0.0096	2.176
Silver	109	0.4177	0.4233	0.4281	**0.423**	0.0052	1.235

Internal Standard Factors:

Rhodium	103	1.119	1.118	1.14	**1.119**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:15					
Antimony	121	0.1665	0.1715	0.1524	**0.1634**	0.0099	6.056
Antimony	123	0.163	0.1733	0.1806	**0.1723**	0.0088	5.12
Silver	107	0.2671	0.2724	0.2692	**0.2696**	0.0027	0.9973
Silver	109	0.2258	0.2255	0.2259	**0.2257**	0.0002	0.0914

Internal Standard Factors:

Rhodium	103	1.154	1.127	1.12	**1.154**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:17					
Antimony	121	0.1918	0.1825	0.1876	**0.1873**	0.0047	2.485
Antimony	123	0.2082	0.183	0.1877	**0.193**	0.0134	6.93
Silver	107	0.2322	0.2253	0.2305	**0.2293**	0.0036	1.566
Silver	109	0.1742	0.1723	0.1748	**0.1738**	0.0013	0.7378

Internal Standard Factors:

Rhodium	103	1.12	1.101	1.107	**1.12**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-005 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:20					
Antimony	121	0.1832	0.1648	0.1509	**0.1663**	0.0162	9.758
Antimony	123	0.185	0.1808	0.1727	**0.1795**	0.0063	3.486
Silver	107	0.2506	0.2653	0.2694	**0.2618**	0.0099	3.79
Silver	109	0.2328	0.2112	0.2137	**0.2192**	0.0118	5.381

Internal Standard Factors:

Rhodium	103	1.131	1.111	1.1	**1.131**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:23					
Antimony	121	0.1976	0.1852	0.1707	**0.1845**	0.0134	7.276
Antimony	123	0.1787	0.1823	0.1914	**0.1841**	0.0066	3.57
Silver	107	0.2964	0.2851	0.2874	**0.2896**	0.0059	2.047
Silver	109	0.2541	0.2417	0.2435	**0.2464**	0.0067	2.716

Internal Standard Factors:

Rhodium	103	1.147	1.114	1.104	**1.147**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV2			Mean	SD	%RSD
TimeStamp		12/7/09 16:25					
Antimony	121	25.23	25.02	25.39	**25.21**	0.1874	0.7434
Antimony	123	24.96	24.82	25.28	**25.02**	0.2364	0.9446
Silver	107	25.25	24.61	25.04	**24.97**	0.3259	1.305
Silver	109	25.35	24.95	25.31	**25.2**	0.2184	0.8666

Internal Standard Factors:

Rhodium	103	1.07	1.046	1.055	**1.07**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB2			Mean	SD	%RSD
TimeStamp		12/7/09 16:28					
Antimony	121	-0.0282	-0.0337	-0.0268	**-0.0296**	0.0037	12.35
Antimony	123	-0.0304	-0.0293	-0.0259	**-0.0286**	0.0024	8.246
Silver	107	0.0024	0.0004	0.0007	**0.0011**	0.0011	95.57
Silver	109	0.0008	0.0033	0.0009	**0.0017**	0.0014	84.63

Internal Standard Factors:

Rhodium	103	1.073	1.04	1.049	**1.073**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:30					
Antimony	121	0.1937	0.1767	0.1785	**0.1829**	0.0093	5.091
Antimony	123	0.1975	0.1915	0.2007	**0.1966**	0.0047	2.385
Silver	107	0.2377	0.2312	0.2374	**0.2354**	0.0036	1.544
Silver	109	0.198	0.1942	0.1881	**0.1934**	0.005	2.593

Internal Standard Factors:

Rhodium	103	1.107	1.099	1.102	**1.107**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-007 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 16:33					
Antimony	121	0.1129	0.0983	0.1134	**0.1082**	0.0086	7.912
Antimony	123	0.1167	0.1054	0.0901	**0.1041**	0.0134	12.85
Silver	107	0.2427	0.2511	0.2381	**0.244**	0.0066	2.694
Silver	109	0.199	0.2102	0.2016	**0.2036**	0.0058	2.867

Internal Standard Factors:

Rhodium	103	1.115	1.123	1.115	**1.115**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-007 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 16:35					
Antimony	121	6.922	6.967	6.689	**6.859**	0.1491	2.174
Antimony	123	6.946	6.839	6.631	**6.806**	0.1601	2.353
Silver	107	4.252	4.202	4.048	**4.167**	0.1066	2.558
Silver	109	4.221	4.186	4.091	**4.166**	0.0675	1.619

Internal Standard Factors:

Rhodium	103	1.074	1.054	1.026	**1.074**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-008 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:38					
Antimony	121	0.1378	0.1348	0.1289	**0.1338**	0.0045	3.381
Antimony	123	0.141	0.1494	0.1349	**0.1418**	0.0073	5.136
Silver	107	0.3406	0.3425	0.3353	**0.3395**	0.0037	1.104
Silver	109	0.2899	0.2871	0.2798	**0.2856**	0.0052	1.824

Internal Standard Factors:

Rhodium	103	1.114	1.122	1.104	**1.114**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-009 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:41					
Antimony	121	0.169	0.1622	0.1516	**0.1609**	0.0088	5.439
Antimony	123	0.1879	0.1569	0.1372	**0.1607**	0.0255	15.9
Silver	107	0.3304	0.3121	0.309	**0.3172**	0.0116	3.657
Silver	109	0.2656	0.2715	0.2785	**0.2719**	0.0065	2.386

Internal Standard Factors:

Rhodium	103	1.135	1.125	1.125	**1.135**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:44					
Antimony	121	0.1462	0.1291	0.1364	**0.1372**	0.0086	6.276
Antimony	123	0.1549	0.1261	0.1286	**0.1365**	0.0159	11.65
Silver	107	0.2579	0.2543	0.2666	**0.2596**	0.0063	2.437
Silver	109	0.2235	0.2221	0.217	**0.2209**	0.0034	1.545

Internal Standard Factors:

Rhodium	103	1.114	1.1	1.095	**1.114**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0909926-011 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:46					
Antimony	121	0.2019	0.1922	0.1905	**0.1949**	0.0061	3.155
Antimony	123	0.2175	0.1881	0.1847	**0.1968**	0.018	9.155
Silver	107	0.3592	0.3481	0.3524	**0.3532**	0.0056	1.584
Silver	109	0.3306	0.3303	0.3344	**0.3318**	0.0023	0.6883

Internal Standard Factors:

Rhodium	103	1.143	1.119	1.132	**1.143**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910575-MB 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:49					
Antimony	121	-0.0592	-0.0616	-0.0589	**-0.0599**	0.0015	2.451
Antimony	123	-0.0601	-0.0654	-0.0589	**-0.0615**	0.0035	5.625
Silver	107	-0.005	-0.0054	-0.0046	**-0.005**	0.0004	7.481
Silver	109	-0.0029	-0.0052	-0.0042	**-0.0041**	0.0012	28.12

Internal Standard Factors:

Rhodium	103	1.091	0.971	1.009	**1.091**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0910575 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 16:51					
Antimony	121	21.41	16.05	17.01	**18.16**	2.855	15.73
Antimony	123	21.3	15.95	16.88	**18.04**	2.854	15.82
Silver	107	20.35	15.79	16.98	**17.71**	2.363	13.35
Silver	109	20.44	16.19	16.98	**17.87**	2.259	12.65

Internal Standard Factors:

Rhodium	103	1.216	1.023	1.051	**1.216**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV3			Mean	SD	%RSD
TimeStamp		12/7/09 16:54					
Antimony	121	27.07	25.46	25.49	**26.01**	0.9203	3.539
Antimony	123	26.92	25.41	25.38	**25.9**	0.8822	3.406
Silver	107	26.9	24.92	25.29	**25.7**	1.052	4.092
Silver	109	26.75	25.45	25.63	**25.94**	0.7063	2.723

Internal Standard Factors:

Rhodium	103	1.085	1.041	1.03	**1.085**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB3			Mean	SD	%RSD
TimeStamp		12/7/09 16:57					
Antimony	121	-0.0281	-0.034	-0.0341	**-0.0321**	0.0034	10.6
Antimony	123	-0.0291	-0.0369	-0.0354	**-0.0338**	0.0042	12.28
Silver	107	0.0058	0.0033	0.0013	**0.0035**	0.0023	66.24
Silver	109	0.0044	0.0037	0.0002	**0.0028**	0.0023	80.97

Internal Standard Factors:

Rhodium	103	1.065	1.058	1.051	**1.065**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-001 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 16:59					
Antimony	121	0.913	0.8161	0.8033	**0.8441**	0.06	7.106
Antimony	123	0.892	0.8084	0.7973	**0.8326**	0.0518	6.22
Silver	107	0.675	0.6256	0.614	**0.6382**	0.0324	5.072
Silver	109	0.6572	0.6145	0.6238	**0.6318**	0.0224	3.55

Internal Standard Factors:

Rhodium	103	1.129	1.065	1.062	**1.129**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-001 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 17:02					
Antimony	121	0.4129	0.4061	0.4014	**0.4068**	0.0058	1.425
Antimony	123	0.3961	0.3927	0.4017	**0.3968**	0.0045	1.139
Silver	107	0.5141	0.5246	0.5079	**0.5155**	0.0085	1.646
Silver	109	0.5113	0.5145	0.5194	**0.5151**	0.0041	0.797

Internal Standard Factors:

Rhodium	103	1.061	1.073	1.055	**1.061**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-001 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 17:05					
Antimony	121	0.1017	0.1163	0.1044	**0.1075**	0.0078	7.243
Antimony	123	0.1079	0.1182	0.1222	**0.1161**	0.0074	6.345
Silver	107	0.1428	0.1416	0.1427	**0.1424**	0.0007	0.4624
Silver	109	0.1253	0.1317	0.144	**0.1337**	0.0095	7.109

Internal Standard Factors:

Rhodium	103	1.021	1.031	1.031	**1.021**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-001 1/5 +10/50A			Mean	SD	%RSD
TimeStamp		12/7/09 17:08					
Antimony	121	52.21	51.6	50.82	**51.54**	0.6947	1.348
Antimony	123	52.01	51.56	50.36	**51.31**	0.8529	1.662
Silver	107	10.55	10.56	10.48	**10.53**	0.0412	0.3913
Silver	109	10.59	10.64	10.5	**10.58**	0.0738	0.6977

Internal Standard Factors:

Rhodium	103	1.1	1.076	1.047	**1.1**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-001 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 17:11					
Antimony	121	31.27	30.9	31.03	**31.07**	0.1834	0.5903
Antimony	123	31.02	30.75	30.89	**30.89**	0.1366	0.4423
Silver	107	4.283	4.35	4.363	**4.332**	0.0424	0.9795
Silver	109	4.389	4.351	4.33	**4.357**	0.0295	0.6764

Internal Standard Factors:

Rhodium	103	1.049	1.03	1.027	**1.049**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-002 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:14					
Antimony	121	1.809	1.797	1.734	**1.78**	0.0401	2.252
Antimony	123	1.769	1.814	1.803	**1.795**	0.0233	1.296
Silver	107	6.818	6.872	6.776	**6.822**	0.0481	0.7049
Silver	109	6.78	6.811	6.661	**6.751**	0.0792	1.173

Internal Standard Factors:

Rhodium	103	1.271	1.223	1.181	**1.271**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:17					
Antimony	121	1.522	1.484	1.54	**1.515**	0.0286	1.888
Antimony	123	1.463	1.435	1.489	**1.462**	0.0271	1.851
Silver	107	4.873	4.755	4.81	**4.813**	0.0587	1.221
Silver	109	4.869	4.866	4.941	**4.892**	0.0424	0.8663

Internal Standard Factors:

Rhodium	103	1.167	1.125	1.145	**1.167**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:20					
Antimony	121	3.26	3.292	3.231	**3.261**	0.0306	0.9391
Antimony	123	3.262	3.174	3.131	**3.189**	0.0666	2.088
Silver	107	2.264	2.252	2.237	**2.251**	0.0135	0.6003
Silver	109	2.271	2.255	2.228	**2.251**	0.0214	0.9482

Internal Standard Factors:

Rhodium	103	1.15	1.141	1.123	**1.15**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-005 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:23					
Antimony	121	1.752	1.739	1.711	**1.734**	0.0213	1.227
Antimony	123	1.71	1.694	1.688	**1.697**	0.0117	0.6895
Silver	107	5.538	5.436	5.468	**5.481**	0.0524	0.9554
Silver	109	5.58	5.432	5.548	**5.52**	0.0781	1.415

Internal Standard Factors:

Rhodium	103	1.173	1.138	1.14	**1.173**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:26					
Antimony	121	1.162	1.157	1.156	**1.158**	0.0033	0.2834
Antimony	123	1.179	1.118	1.123	**1.14**	0.0338	2.967
Silver	107	2.239	2.221	2.192	**2.217**	0.0237	1.067
Silver	109	2.24	2.162	2.216	**2.206**	0.0395	1.792

Internal Standard Factors:

Rhodium	103	1.142	1.122	1.109	**1.142**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV4			Mean	SD	%RSD
TimeStamp		12/7/09 17:29					
Antimony	121	26.64	25.4	25.19	**25.74**	0.7832	3.042
Antimony	123	26.69	25.33	24.98	**25.67**	0.9019	3.514
Silver	107	26.08	25.07	25.09	**25.41**	0.5768	2.27
Silver	109	26.39	25.18	25.12	**25.56**	0.716	2.801

Internal Standard Factors:

Rhodium	103	1.109	1.059	1.053	**1.109**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB4			Mean	SD	%RSD
TimeStamp		12/7/09 17:32					
Antimony	121	-0.042	-0.0457	-0.0379	**-0.0419**	0.0039	9.327
Antimony	123	-0.0371	-0.0375	-0.0468	**-0.0405**	0.0055	13.53
Silver	107	0.0064	0.0029	0.0012	**0.0035**	0.0026	75.02
Silver	109	0.0032	0.0046	0.0028	**0.0035**	0.0009	27.05

Internal Standard Factors:

Rhodium	103	1.091	1.068	1.06	**1.091**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:33					
Antimony	121	1.79	1.76	1.696	**1.749**	0.0477	2.728
Antimony	123	1.681	1.744	1.753	**1.726**	0.0391	2.265
Silver	107	2.278	2.243	2.222	**2.247**	0.0281	1.252
Silver	109	2.265	2.243	2.222	**2.243**	0.0213	0.95

Internal Standard Factors:

Rhodium	103	1.123	1.099	1.094	**1.123**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-008 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:36					
Antimony	121	9.874	9.724	9.65	**9.749**	0.1141	1.171
Antimony	123	9.917	9.777	9.635	**9.776**	0.141	1.442
Silver	107	1.194	1.164	1.149	**1.169**	0.0232	1.984
Silver	109	1.153	1.149	1.145	**1.149**	0.0038	0.3341

Internal Standard Factors:

Rhodium	103	1.125	1.097	1.079	**1.125**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-009 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:39					
Antimony	121	2.902	2.96	3.011	**2.957**	0.0544	1.838
Antimony	123	2.914	2.929	2.916	**2.919**	0.0082	0.2802
Silver	107	11.63	11.67	11.72	**11.67**	0.0442	0.3784
Silver	109	11.7	11.8	11.94	**11.81**	0.1214	1.028

Internal Standard Factors:

Rhodium	103	1.143	1.13	1.127	**1.143**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:42					
Antimony	121	0.7299	0.6891	0.6765	**0.6985**	0.0279	3.996
Antimony	123	0.7044	0.6899	0.7384	**0.7109**	0.0249	3.505
Silver	107	0.3291	0.3517	0.3353	**0.3387**	0.0117	3.45
Silver	109	0.3311	0.3352	0.3201	**0.3288**	0.0078	2.379

Internal Standard Factors:

Rhodium	103	1.105	1.083	1.076	**1.105**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-011 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:45					
Antimony	121	0.6007	0.622	0.5677	**0.5968**	0.0274	4.584
Antimony	123	0.594	0.6082	0.5933	**0.5985**	0.0084	1.402
Silver	107	0.4076	0.3826	0.3942	**0.3948**	0.0125	3.17
Silver	109	0.3841	0.3924	0.3857	**0.3874**	0.0044	1.143

Internal Standard Factors:

Rhodium	103	1.095	1.089	1.076	**1.095**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-012 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:48					
Antimony	121	0.8563	0.8541	0.8439	**0.8514**	0.0066	0.7763
Antimony	123	0.8795	0.8495	0.8781	**0.8691**	0.0169	1.949
Silver	107	1.948	1.965	1.921	**1.945**	0.0221	1.137
Silver	109	1.957	1.935	1.955	**1.949**	0.0122	0.628

Internal Standard Factors:

Rhodium	103	1.121	1.102	1.1	**1.121**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-013 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:51					
Antimony	121	1.06	1.08	1.106	**1.082**	0.0229	2.118
Antimony	123	1.05	1.114	1.057	**1.074**	0.0348	3.245
Silver	107	0.7888	0.7978	0.7852	**0.7906**	0.0065	0.8217
Silver	109	0.8059	0.7958	0.7727	**0.7915**	0.017	2.151

Internal Standard Factors:

Rhodium	103	1.092	1.077	1.065	**1.092**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-014 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:54					
Antimony	121	0.4575	0.4867	0.5171	**0.4871**	0.0298	6.121
Antimony	123	0.4474	0.5169	0.5013	**0.4885**	0.0365	7.463
Silver	107	0.6612	0.6752	0.688	**0.6748**	0.0134	1.991
Silver	109	0.6781	0.6722	0.6762	**0.6755**	0.003	0.4485

Internal Standard Factors:

Rhodium	103	1.054	1.05	1.065	**1.054**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-015 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:57					
Antimony	121	1.82	1.806	1.887	**1.838**	0.0432	2.351
Antimony	123	1.876	1.83	1.856	**1.854**	0.0234	1.26
Silver	107	4.927	4.94	4.861	**4.91**	0.0426	0.8669
Silver	109	4.947	4.868	4.92	**4.912**	0.0403	0.8195

Internal Standard Factors:

Rhodium	103	1.157	1.146	1.155	**1.157**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-016 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 17:59					
Antimony	121	1.768	1.825	1.753	**1.782**	0.0382	2.143
Antimony	123	1.687	1.792	1.818	**1.766**	0.0694	3.929
Silver	107	4.962	4.925	5	**4.962**	0.0377	0.7593
Silver	109	4.883	4.951	5.06	**4.965**	0.0894	1.801

Internal Standard Factors:

Rhodium	103	1.127	1.138	1.134	**1.127**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV5			Mean	SD	%RSD
TimeStamp		12/7/09 18:02					
Antimony	121	23.6	24.17	24.74	**24.17**	0.5708	2.362
Antimony	123	23.7	24.11	24.47	**24.1**	0.3831	1.59
Silver	107	24.15	24.57	24.87	**24.53**	0.3606	1.47
Silver	109	23.95	24.45	24.83	**24.41**	0.4402	1.803

Internal Standard Factors:

Rhodium	103	1.042	1.032	1.041	**1.042**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB5			Mean	SD	%RSD
TimeStamp		12/7/09 18:05					
Antimony	121	-0.0351	-0.043	-0.0383	**-0.0388**	0.004	10.27
Antimony	123	-0.0448	-0.042	-0.0406	**-0.0424**	0.0022	5.076
Silver	107	0.006	0.0039	0.0047	**0.0049**	0.001	21.18
Silver	109	0.0037	0.0024	0.0045	**0.0035**	0.0011	29.8

Internal Standard Factors:

Rhodium	103	1.058	1.062	1.041	**1.058**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-017 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:07					
Antimony	121	5.075	5.093	5.118	**5.095**	0.0214	0.42
Antimony	123	5.01	5.043	5.093	**5.049**	0.0417	0.8258
Silver	107	3.3	3.355	3.37	**3.342**	0.0364	1.09
Silver	109	3.312	3.383	3.335	**3.343**	0.0361	1.079

Internal Standard Factors:

Rhodium	103	1.123	1.099	1.108	**1.123**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-018 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:10					
Antimony	121	2.625	2.632	2.633	**2.63**	0.0047	0.1779
Antimony	123	2.607	2.547	2.681	**2.611**	0.0671	2.569
Silver	107	4.367	4.322	4.387	**4.358**	0.0333	0.7629
Silver	109	4.362	4.394	4.421	**4.392**	0.0297	0.6767

Internal Standard Factors:

Rhodium	103	1.142	1.125	1.135	**1.142**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-019 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:13					
Antimony	121	2.315	2.267	2.315	**2.299**	0.0278	1.21
Antimony	123	2.309	2.237	2.237	**2.261**	0.0418	1.849
Silver	107	9.639	9.57	9.4	**9.536**	0.123	1.289
Silver	109	9.723	9.641	9.53	**9.632**	0.0969	1.006

Internal Standard Factors:

Rhodium	103	1.129	1.109	1.098	**1.129**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K09010575-020 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:16					
Antimony	121	2.007	1.84	1.739	**1.862**	0.1354	7.273
Antimony	123	2.009	1.787	1.764	**1.854**	0.1355	7.31
Silver	107	4.757	4.393	4.282	**4.477**	0.2485	5.55
Silver	109	4.778	4.387	4.355	**4.507**	0.2359	5.234

Internal Standard Factors:

Rhodium	103	1.161	1.093	1.078	**1.161**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-MB 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:19					
Antimony	121	-0.0472	-0.0544	-0.0504	**-0.0507**	0.0036	7.165
Antimony	123	-0.0483	-0.0457	-0.0509	**-0.0483**	0.0026	5.366
Silver	107	-0.0002	-0.0011	-0.0019	**-0.0011**	0.0008	76.02
Silver	109	-0.0028	-0.004	-0.0036	**-0.0035**	0.0006	17.59

Internal Standard Factors:

Rhodium	103	1.035	1.035	1.019	**1.035**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0910722 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 18:21					
Antimony	121	18.73	18.65	18.48	**18.62**	0.1309	0.7029
Antimony	123	18.59	18.61	18.4	**18.53**	0.1147	0.619
Silver	107	16.45	16.45	16.1	**16.33**	0.2036	1.247
Silver	109	16.58	16.59	16.33	**16.5**	0.1438	0.8715

Internal Standard Factors:

Rhodium	103	1.077	1.061	1.054	**1.077**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-014 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:24					
Antimony	121	1.579	1.648	1.592	**1.607**	0.0366	2.28
Antimony	123	1.595	1.586	1.628	**1.603**	0.0219	1.367
Silver	107	0.5258	0.5468	0.5228	**0.5318**	0.0131	2.455
Silver	109	0.5326	0.5196	0.5098	**0.5207**	0.0115	2.199

Internal Standard Factors:

Rhodium	103	1.085	1.082	1.078	**1.085**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-014 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 18:27					
Antimony	121	3.394	3.49	3.464	**3.449**	0.0496	1.438
Antimony	123	3.464	3.462	3.44	**3.456**	0.0137	0.3962
Silver	107	0.457	0.4739	0.4693	**0.4667**	0.0088	1.876
Silver	109	0.4539	0.4716	0.4575	**0.461**	0.0094	2.035

Internal Standard Factors:

Rhodium	103	1.09	1.086	1.077	**1.09**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-014 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 18:30					
Antimony	121	0.3088	0.2729	0.2968	**0.2929**	0.0183	6.242
Antimony	123	0.2631	0.2831	0.2771	**0.2744**	0.0103	3.741
Silver	107	0.1161	0.1084	0.1183	**0.1143**	0.0052	4.583
Silver	109	0.1048	0.1174	0.1074	**0.1098**	0.0067	6.059

Internal Standard Factors:

Rhodium	103	1.135	1.114	1.153	**1.135**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-014 1/5 +10/50A			Mean	SD	%RSD
TimeStamp		12/7/09 18:32					
Antimony	121	52.55	53.17	52.58	**52.77**	0.3477	0.6589
Antimony	123	52.51	53.37	52.7	**52.86**	0.4484	0.8482
Silver	107	10.64	10.63	10.47	**10.58**	0.093	0.8794
Silver	109	10.57	10.7	10.49	**10.59**	0.1045	0.9873

Internal Standard Factors:

Rhodium	103	1.089	1.086	1.064	**1.089**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV6			Mean	SD	%RSD
TimeStamp		12/7/09 18:35					
Antimony	121	25.28	24.67	25.12	**25.02**	0.315	1.259
Antimony	123	25.13	24.74	24.84	**24.9**	0.2013	0.8083
Silver	107	25.38	24.71	24.74	**24.94**	0.3778	1.515
Silver	109	25.49	24.79	25.16	**25.15**	0.3504	1.393

Internal Standard Factors:

Rhodium	103	1.056	1.018	1.023	**1.056**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB6			Mean	SD	%RSD
TimeStamp		12/7/09 18:38					
Antimony	121	-0.0328	-0.042	-0.037	**-0.0373**	0.0046	12.36
Antimony	123	-0.038	-0.0395	-0.0345	**-0.0373**	0.0026	6.969
Silver	107	0.0069	0.0059	0.0064	**0.0064**	0.0005	7.45
Silver	109	0.0042	0.0045	0.005	**0.0046**	0.0004	8.847

Internal Standard Factors:

Rhodium	103	1.041	1.038	1.036	**1.041**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-014 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 18:40					
Antimony	121	33.83	32.37	31.88	**32.69**	1.015	3.106
Antimony	123	34.11	32.39	31.99	**32.83**	1.126	3.429
Silver	107	4.331	4.158	4.149	**4.212**	0.1024	2.43
Silver	109	4.363	4.124	4.168	**4.219**	0.1273	3.017

Internal Standard Factors:

Rhodium	103	1.055	1.023	1.014	**1.055**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-001 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:43					
Antimony	121	0.5865	0.5448	0.5439	**0.5584**	0.0243	4.359
Antimony	123	0.5878	0.5305	0.5476	**0.5553**	0.0294	5.3
Silver	107	0.6961	0.6602	0.6538	**0.67**	0.0228	3.404
Silver	109	0.6857	0.6615	0.6516	**0.6663**	0.0175	2.633

Internal Standard Factors:

Rhodium	103	1.109	1.081	1.072	**1.109**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-002 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:46					
Antimony	121	0.2458	0.2275	0.2126	**0.2286**	0.0166	7.255
Antimony	123	0.2243	0.2245	0.2187	**0.2225**	0.0033	1.466
Silver	107	0.3412	0.3445	0.3301	**0.3386**	0.0075	2.226
Silver	109	0.3317	0.3288	0.3436	**0.3347**	0.0078	2.345

Internal Standard Factors:

Rhodium	103	1.086	1.055	1.082	**1.086**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:49					
Antimony	121	2.876	2.781	2.758	**2.805**	0.0623	2.219
Antimony	123	2.843	2.756	2.685	**2.761**	0.0793	2.871
Silver	107	2.086	2.028	2.015	**2.043**	0.0382	1.87
Silver	109	2.076	2.043	2.02	**2.047**	0.0282	1.378

Internal Standard Factors:

Rhodium	103	1.128	1.105	1.093	**1.128**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:52					
Antimony	121	0.8639	0.8654	0.8395	**0.8563**	0.0145	1.695
Antimony	123	0.8625	0.8441	0.8643	**0.857**	0.0112	1.307
Silver	107	0.4141	0.3991	0.4072	**0.4068**	0.0075	1.839
Silver	109	0.3979	0.41	0.4	**0.4026**	0.0065	1.61

Internal Standard Factors:

Rhodium	103	1.096	1.08	1.077	**1.096**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-005 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:55					
Antimony	121	1.09	1.043	1.083	**1.072**	0.0254	2.371
Antimony	123	1.041	1.014	1.018	**1.024**	0.0145	1.418
Silver	107	0.2334	0.2248	0.2383	**0.2322**	0.0068	2.939
Silver	109	0.2315	0.2148	0.2233	**0.2232**	0.0083	3.736

Internal Standard Factors:

Rhodium	103	1.107	1.087	1.082	**1.107**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 18:57					
Antimony	121	1.668	1.656	1.732	**1.685**	0.041	2.431
Antimony	123	1.673	1.655	1.681	**1.67**	0.0134	0.805
Silver	107	5.262	5.389	5.435	**5.362**	0.0897	1.674
Silver	109	5.306	5.361	5.516	**5.394**	0.1089	2.019

Internal Standard Factors:

Rhodium	103	1.119	1.105	1.131	**1.119**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:00					
Antimony	121	1.515	1.468	1.491	**1.491**	0.0233	1.559
Antimony	123	1.471	1.435	1.45	**1.452**	0.0179	1.229
Silver	107	0.2965	0.2819	0.2998	**0.2927**	0.0095	3.247
Silver	109	0.2821	0.2731	0.2879	**0.281**	0.0075	2.661

Internal Standard Factors:

Rhodium	103	1.099	1.068	1.076	**1.099**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-008 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:03					
Antimony	121	0.8892	0.808	0.8261	**0.8411**	0.0426	5.069
Antimony	123	0.8397	0.8021	0.8402	**0.8273**	0.0219	2.644
Silver	107	0.9069	0.887	0.857	**0.8837**	0.0251	2.842
Silver	109	0.9082	0.8857	0.8559	**0.8833**	0.0263	2.973

Internal Standard Factors:

Rhodium	103	1.139	1.092	1.076	**1.139**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-009 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:06					
Antimony	121	2.134	2.184	2.211	**2.176**	0.0391	1.798
Antimony	123	2.103	2.135	2.226	**2.154**	0.0641	2.977
Silver	107	3.627	3.625	3.628	**3.627**	0.0018	0.0485
Silver	109	3.583	3.603	3.63	**3.605**	0.0238	0.6592

Internal Standard Factors:

Rhodium	103	1.103	1.097	1.104	**1.103**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV7			Mean	SD	%RSD
TimeStamp		12/7/09 19:09					
Antimony	121	25.19	25.01	24.49	**24.9**	0.3641	1.462
Antimony	123	24.85	24.91	24.74	**24.83**	0.0859	0.3459
Silver	107	25.14	24.84	25.01	**25**	0.1521	0.6086
Silver	109	25.45	24.83	24.93	**25.07**	0.3339	1.332

Internal Standard Factors:

Rhodium	103	1.049	1.025	1.014	**1.049**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB7			Mean	SD	%RSD
TimeStamp		12/7/09 19:12					
Antimony	121	-0.0487	-0.0458	-0.0451	**-0.0466**	0.0019	4.113
Antimony	123	-0.0522	-0.0526	-0.0481	**-0.051**	0.0025	4.921
Silver	107	0.0046	0.0059	0.0071	**0.0059**	0.0013	21.96
Silver	109	0.0057	0.0024	0.0018	**0.0033**	0.0021	62.59

Internal Standard Factors:

Rhodium	103	1.047	1.019	1.026	**1.047**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:14					
Antimony	121	1.647	1.521	1.504	**1.557**	0.0785	5.038
Antimony	123	1.614	1.495	1.471	**1.527**	0.0767	5.022
Silver	107	4.183	3.928	3.95	**4.021**	0.1416	3.521
Silver	109	4.196	3.988	3.94	**4.042**	0.1361	3.367

Internal Standard Factors:

Rhodium	103	1.17	1.106	1.095	**1.17**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-011 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:17					
Antimony	121	1.396	1.341	1.397	**1.378**	0.0324	2.352
Antimony	123	1.387	1.33	1.338	**1.352**	0.0306	2.266
Silver	107	4.556	4.484	4.425	**4.488**	0.0658	1.466
Silver	109	4.587	4.509	4.445	**4.514**	0.0713	1.579

Internal Standard Factors:

Rhodium	103	1.142	1.112	1.107	**1.142**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-012 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:20					
Antimony	121	1.732	1.735	1.753	**1.74**	0.0116	0.6688
Antimony	123	1.741	1.783	1.734	**1.753**	0.0267	1.521
Silver	107	5.302	5.3	5.353	**5.318**	0.0303	0.57
Silver	109	5.244	5.273	5.286	**5.268**	0.0214	0.4053

Internal Standard Factors:

Rhodium	103	1.109	1.099	1.092	**1.109**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-013 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:23					
Antimony	121	1.612	1.592	1.583	**1.596**	0.0153	0.9607
Antimony	123	1.656	1.55	1.561	**1.589**	0.0581	3.655
Silver	107	0.6048	0.598	0.5647	**0.5892**	0.0214	3.637
Silver	109	0.6029	0.5726	0.5817	**0.5857**	0.0156	2.657

Internal Standard Factors:

Rhodium	103	1.116	1.08	1.082	**1.116**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-015 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:25					
Antimony	121	2.791	2.911	2.83	**2.844**	0.0609	2.143
Antimony	123	2.81	2.818	2.734	**2.787**	0.0467	1.677
Silver	107	12.87	13.19	12.66	**12.91**	0.2643	2.048
Silver	109	12.97	13.17	12.91	**13.01**	0.1387	1.065

Internal Standard Factors:

Rhodium	103	1.124	1.127	1.105	**1.124**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-016 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:28					
Antimony	121	1.003	1.005	0.9922	**1**	0.007	0.6995
Antimony	123	0.9951	0.9728	0.9864	**0.9847**	0.0112	1.139
Silver	107	3.353	3.391	3.388	**3.377**	0.021	0.6219
Silver	109	3.344	3.405	3.372	**3.374**	0.0303	0.897

Internal Standard Factors:

Rhodium	103	1.105	1.182	1.209	**1.105**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-017 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:31					
Antimony	121	3.965	3.933	3.971	**3.956**	0.0208	0.525
Antimony	123	3.932	3.956	3.943	**3.944**	0.0118	0.298
Silver	107	5.441	5.461	5.452	**5.451**	0.0102	0.1877
Silver	109	5.421	5.441	5.457	**5.44**	0.0184	0.3374

Internal Standard Factors:

Rhodium	103	1.13	1.113	1.106	**1.13**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-018 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:34					
Antimony	121	1.498	1.475	1.419	**1.464**	0.0405	2.764
Antimony	123	1.488	1.443	1.414	**1.448**	0.0375	2.587
Silver	107	4.921	4.899	4.843	**4.888**	0.0401	0.8213
Silver	109	4.979	4.874	4.837	**4.896**	0.0737	1.506

Internal Standard Factors:

Rhodium	103	1.136	1.118	1.114	**1.136**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0910722-019 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:37					
Antimony	121	1.62	1.581	1.589	**1.597**	0.0207	1.295
Antimony	123	1.625	1.597	1.552	**1.591**	0.0366	2.303
Silver	107	3.583	3.52	3.596	**3.566**	0.0408	1.143
Silver	109	3.579	3.488	3.544	**3.537**	0.0458	1.296

Internal Standard Factors:

Rhodium	103	1.14	1.101	1.105	**1.14**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV8			Mean	SD	%RSD
TimeStamp		12/7/09 19:40					
Antimony	121	25.07	24.93	24.82	**24.94**	0.1263	0.5063
Antimony	123	24.95	25.01	24.94	**24.97**	0.0355	0.1422
Silver	107	25.39	25.33	25	**25.24**	0.211	0.8361
Silver	109	25.24	25.3	24.86	**25.13**	0.236	0.9388

Internal Standard Factors:

Rhodium	103	1.042	1.025	1.008	**1.042**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB8			Mean	SD	%RSD
TimeStamp		12/7/09 19:43					
Antimony	121	-0.0378	-0.0463	-0.0477	**-0.0439**	0.0054	12.25
Antimony	123	-0.0423	-0.0487	-0.0503	**-0.0471**	0.0042	8.99
Silver	107	0.0086	0.0081	0.0057	**0.0075**	0.0015	20.54
Silver	109	0.0049	0.0049	0.0058	**0.0052**	0.0005	9.614

Internal Standard Factors:

Rhodium	103	1.068	1.025	1.02	**1.068**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-MB 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:45					
Antimony	121	-0.0721	-0.0718	-0.0682	**-0.0707**	0.0022	3.07
Antimony	123	-0.0713	-0.0718	-0.0684	**-0.0705**	0.0018	2.571
Silver	107	-0.0025	-0.002	-0.0032	**-0.0025**	0.0006	23.75
Silver	109	-0.0037	-0.0035	-0.0038	**-0.0037**	0.0002	4.622

Internal Standard Factors:

Rhodium	103	1.002	0.992	0.993	**1.002**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0911037 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 19:47					
Antimony	121	16.64	16.75	16.66	**16.68**	0.0568	0.3403
Antimony	123	16.47	16.63	16.68	**16.59**	0.1116	0.6727
Silver	107	16.79	17.04	16.9	**16.91**	0.1244	0.7358
Silver	109	16.7	17.11	17.02	**16.95**	0.2176	1.284

Internal Standard Factors:

Rhodium	103	1.025	1.028	1.026	**1.025**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 19:50					
Antimony	121	1.657	1.643	1.635	**1.645**	0.011	0.6691
Antimony	123	1.612	1.624	1.639	**1.625**	0.0134	0.8243
Silver	107	6.101	6.122	6.08	**6.101**	0.0211	0.3452
Silver	109	6.023	6.092	6.086	**6.067**	0.0381	0.6287

Internal Standard Factors:

Rhodium	103	1.093	1.084	1.096	**1.093**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 19:53					
Antimony	121	1.517	1.547	1.513	**1.526**	0.0185	1.213
Antimony	123	1.508	1.499	1.494	**1.5**	0.0068	0.455
Silver	107	5.661	5.634	5.535	**5.61**	0.0661	1.179
Silver	109	5.66	5.696	5.593	**5.65**	0.052	0.9213

Internal Standard Factors:

Rhodium	103	1.119	1.105	1.088	**1.119**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 19:56					
Antimony	121	0.3136	0.2689	0.2891	**0.2905**	0.0224	7.701
Antimony	123	0.2945	0.2903	0.2881	**0.291**	0.0032	1.114
Silver	107	1.285	1.176	1.191	**1.217**	0.0594	4.876
Silver	109	1.256	1.195	1.215	**1.222**	0.0312	2.553

Internal Standard Factors:

Rhodium	103	1.046	1.004	1.014	**1.046**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/5 +10/50A			Mean	SD	%RSD
TimeStamp		12/7/09 19:59					
Antimony	121	52.27	52.82	52.09	**52.4**	0.3807	0.7265
Antimony	123	52.22	52.68	51.8	**52.24**	0.4424	0.8469
Silver	107	15.61	15.56	15.41	**15.52**	0.1015	0.6536
Silver	109	15.53	15.72	15.58	**15.61**	0.0957	0.6133

Internal Standard Factors:

Rhodium	103	1.11	1.098	1.085	**1.11**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-001 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 20:02					
Antimony	121	14.93	14.76	14.61	**14.76**	0.1597	1.082
Antimony	123	14.75	14.76	14.46	**14.66**	0.1691	1.154
Silver	107	5.47	5.433	5.352	**5.419**	0.0603	1.114
Silver	109	5.529	5.5	5.383	**5.471**	0.0776	1.419

Internal Standard Factors:

Rhodium	103	1.045	1.025	1.015	**1.045**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-002 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:05					
Antimony	121	1.406	1.382	1.403	**1.397**	0.0131	0.9383
Antimony	123	1.383	1.359	1.371	**1.371**	0.0121	0.8842
Silver	107	4.692	4.741	4.747	**4.727**	0.0304	0.643
Silver	109	4.746	4.798	4.733	**4.759**	0.0347	0.7284

Internal Standard Factors:

Rhodium	103	1.1	1.091	1.092	**1.1**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:08					
Antimony	121	1.456	1.428	1.431	**1.439**	0.0152	1.058
Antimony	123	1.417	1.389	1.428	**1.412**	0.0198	1.402
Silver	107	4.084	4.06	4.072	**4.072**	0.012	0.2953
Silver	109	4.096	4.032	4.039	**4.056**	0.035	0.8624

Internal Standard Factors:

Rhodium	103	1.15	1.131	1.126	**1.15**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:11					
Antimony	121	0.8177	0.8256	0.8221	**0.8218**	0.004	0.4851
Antimony	123	0.819	0.8325	0.8369	**0.8294**	0.0093	1.126
Silver	107	1.692	1.645	1.615	**1.651**	0.0386	2.339
Silver	109	1.706	1.696	1.649	**1.684**	0.0306	1.816

Internal Standard Factors:

Rhodium	103	1.099	1.093	1.071	**1.099**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV9			Mean	SD	%RSD
TimeStamp		12/7/09 20:13					
Antimony	121	25.18	24.95	24.91	**25.01**	0.146	0.5837
Antimony	123	24.83	24.89	24.73	**24.82**	0.0789	0.3177
Silver	107	25.11	24.93	25.18	**25.07**	0.13	0.5183
Silver	109	25.45	24.77	25.18	**25.13**	0.3426	1.363

Internal Standard Factors:

Rhodium	103	1.047	1.017	1.009	**1.047**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB9			Mean	SD	%RSD
TimeStamp		12/7/09 20:16					
Antimony	121	-0.0461	-0.0455	-0.0468	**-0.0461**	0.0007	1.423
Antimony	123	-0.0424	-0.0449	-0.0456	**-0.0443**	0.0017	3.815
Silver	107	0.008	0.0088	0.0083	**0.0083**	0.0004	4.476
Silver	109	0.0092	0.0067	0.0095	**0.0085**	0.0015	18.07

Internal Standard Factors:

Rhodium	103	1.04	1.028	1.011	**1.04**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-005 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:18					
Antimony	121	2.595	2.595	2.556	**2.582**	0.0229	0.8862
Antimony	123	2.653	2.542	2.543	**2.579**	0.0643	2.493
Silver	107	11.41	10.99	10.78	**11.06**	0.3212	2.905
Silver	109	11.33	11.15	10.89	**11.12**	0.2215	1.992

Internal Standard Factors:

Rhodium	103	1.139	1.113	1.095	**1.139**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:21					
Antimony	121	3.435	3.481	3.351	**3.422**	0.0658	1.923
Antimony	123	3.364	3.513	3.299	**3.392**	0.1096	3.231
Silver	107	2.367	2.329	2.292	**2.33**	0.0378	1.622
Silver	109	2.322	2.35	2.239	**2.304**	0.0575	2.495

Internal Standard Factors:

Rhodium	103	1.109	1.105	1.066	**1.109**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:24					
Antimony	121	1.265	1.303	1.326	**1.298**	0.0308	2.37
Antimony	123	1.199	1.32	1.292	**1.27**	0.063	4.959
Silver	107	5.951	6.154	6.076	**6.06**	0.1024	1.69
Silver	109	5.896	6.265	6.08	**6.08**	0.1842	3.029

Internal Standard Factors:

Rhodium	103	1.049	1.073	1.073	**1.049**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-008 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:27					
Antimony	121	1.538	1.506	1.451	**1.498**	0.0443	2.958
Antimony	123	1.509	1.451	1.434	**1.465**	0.0395	2.7
Silver	107	5.316	5.099	4.992	**5.135**	0.1654	3.221
Silver	109	5.147	5.11	5.035	**5.097**	0.0573	1.124

Internal Standard Factors:

Rhodium	103	1.137	1.12	1.112	**1.137**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-009 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:30					
Antimony	121	1.508	1.45	1.433	**1.463**	0.0393	2.688
Antimony	123	1.418	1.42	1.452	**1.43**	0.019	1.33
Silver	107	5.054	4.883	4.918	**4.952**	0.0904	1.826
Silver	109	5.026	4.927	4.955	**4.969**	0.0513	1.033

Internal Standard Factors:

Rhodium	103	1.136	1.114	1.105	**1.136**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:33					
Antimony	121	0.5717	0.5868	0.5756	**0.578**	0.0079	1.362
Antimony	123	0.5675	0.58	0.5615	**0.5696**	0.0094	1.658
Silver	107	0.3348	0.3465	0.3264	**0.3359**	0.0101	3
Silver	109	0.3342	0.3313	0.3413	**0.3356**	0.0051	1.529

Internal Standard Factors:

Rhodium	103	1.079	1.067	1.046	**1.079**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-011 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:36					
Antimony	121	1.163	1.189	1.19	**1.18**	0.0153	1.296
Antimony	123	1.162	1.206	1.157	**1.175**	0.0271	2.303
Silver	107	3.433	3.488	3.487	**3.469**	0.0315	0.9082
Silver	109	3.489	3.442	3.445	**3.459**	0.0262	0.758

Internal Standard Factors:

Rhodium	103	1.106	1.111	1.094	**1.106**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-012 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:39					
Antimony	121	2.006	2	1.918	**1.975**	0.049	2.479
Antimony	123	1.992	1.962	1.951	**1.968**	0.0211	1.075
Silver	107	2.15	2.112	2.078	**2.113**	0.0361	1.708
Silver	109	2.127	2.103	2.072	**2.101**	0.0276	1.314

Internal Standard Factors:

Rhodium	103	1.141	1.123	1.107	**1.141**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-013 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:42					
Antimony	121	1.866	1.884	1.855	**1.868**	0.0147	0.784
Antimony	123	1.826	1.846	1.818	**1.83**	0.0141	0.7703
Silver	107	3.569	3.535	3.496	**3.533**	0.036	1.02
Silver	109	3.559	3.516	3.523	**3.533**	0.0228	0.6451

Internal Standard Factors:

Rhodium	103	1.138	1.121	1.12	**1.138**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-014 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:45					
Antimony	121	1.559	1.55	1.511	**1.54**	0.0257	1.671
Antimony	123	1.521	1.484	1.542	**1.516**	0.0295	1.945
Silver	107	4.674	4.717	4.658	**4.683**	0.0306	0.6537
Silver	109	4.667	4.657	4.715	**4.68**	0.031	0.6619

Internal Standard Factors:

Rhodium	103	1.124	1.111	1.105	**1.124**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV10			Mean	SD	%RSD
TimeStamp		12/7/09 20:48					
Antimony	121	25.36	24.56	25.13	**25.02**	0.4129	1.651
Antimony	123	25.01	24.47	24.93	**24.8**	0.2921	1.178
Silver	107	25.2	24.89	25.41	**25.16**	0.2596	1.032
Silver	109	25.59	24.93	25.75	**25.42**	0.4332	1.704

Internal Standard Factors:

Rhodium	103	1.047	1	1.012	**1.047**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB10			Mean	SD	%RSD
TimeStamp		12/7/09 20:51					
Antimony	121	-0.0415	-0.0444	-0.04	**-0.042**	0.0022	5.317
Antimony	123	-0.046	-0.0473	-0.048	**-0.0471**	0.001	2.203
Silver	107	0.0089	0.0103	0.0089	**0.0093**	0.0008	8.671
Silver	109	0.0116	0.0113	0.0097	**0.0109**	0.001	9.311

Internal Standard Factors:

Rhodium	103	1.043	1.012	1.014	**1.043**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-015 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:53					
Antimony	121	1.283	1.287	1.275	**1.282**	0.0059	0.4589
Antimony	123	1.309	1.338	1.28	**1.309**	0.0292	2.232
Silver	107	2.801	2.737	2.72	**2.753**	0.0426	1.546
Silver	109	2.761	2.69	2.635	**2.695**	0.063	2.337

Internal Standard Factors:

Rhodium	103	1.132	1.118	1.099	**1.132**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-016 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:56					
Antimony	121	2.064	2.013	2.029	**2.035**	0.0263	1.294
Antimony	123	1.997	1.984	2.003	**1.994**	0.01	0.4991
Silver	107	4.583	4.619	4.623	**4.608**	0.0222	0.4808
Silver	109	4.6	4.646	4.552	**4.6**	0.0469	1.019

Internal Standard Factors:

Rhodium	103	1.115	1.104	1.098	**1.115**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-017 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 20:59					
Antimony	121	3.96	3.836	3.809	**3.868**	0.0802	2.074
Antimony	123	3.964	3.843	3.839	**3.882**	0.0713	1.838
Silver	107	3.144	3.058	3.068	**3.09**	0.0473	1.53
Silver	109	3.175	3.098	3.066	**3.113**	0.0559	1.797

Internal Standard Factors:

Rhodium	103	1.115	1.083	1.082	**1.115**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-018 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:02					
Antimony	121	1.472	1.39	1.342	**1.402**	0.0658	4.695
Antimony	123	1.451	1.36	1.378	**1.396**	0.0484	3.466
Silver	107	3.718	3.532	3.515	**3.588**	0.1126	3.139
Silver	109	3.754	3.561	3.512	**3.609**	0.128	3.548

Internal Standard Factors:

Rhodium	103	1.154	1.135	1.112	**1.154**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-019 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:05					
Antimony	121	0.4927	0.4874	0.516	**0.4987**	0.0152	3.054
Antimony	123	0.5041	0.5001	0.4953	**0.4998**	0.0044	0.8875
Silver	107	0.185	0.1916	0.1835	**0.1867**	0.0043	2.321
Silver	109	0.179	0.1822	0.1712	**0.1775**	0.0056	3.176

Internal Standard Factors:

Rhodium	103	1.066	1.045	1.04	**1.066**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911037-020 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:07					
Antimony	121	0.8353	0.7928	0.7471	**0.7917**	0.0441	5.568
Antimony	123	0.8698	0.7668	0.7693	**0.802**	0.0588	7.327
Silver	107	4.236	4.066	3.954	**4.085**	0.1419	3.473
Silver	109	4.319	3.983	3.834	**4.045**	0.2485	6.144

Internal Standard Factors:

Rhodium	103	1.184	1.138	1.105	**1.184**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-MB 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:10					
Antimony	121	-0.0573	-0.0625	-0.06	**-0.0599**	0.0026	4.353
Antimony	123	-0.0634	-0.0645	-0.0615	**-0.0631**	0.0015	2.398
Silver	107	-0.0039	-0.0038	-0.0034	**-0.0037**	0.0003	7.227
Silver	109	-0.0041	-0.0048	-0.0051	**-0.0047**	0.0005	11.21

Internal Standard Factors:

Rhodium	103	1.069	1.021	1.016	**1.069**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0911120 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 21:12					
Antimony	121	17.84	18.24	18.05	**18.04**	0.1998	1.107
Antimony	123	17.83	17.99	17.75	**17.86**	0.1195	0.6693
Silver	107	16.35	16.85	16.29	**16.5**	0.3086	1.871
Silver	109	16.36	17	16.52	**16.63**	0.3337	2.007

Internal Standard Factors:

Rhodium	103	1.023	1.006	1.002	**1.023**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:15					
Antimony	121	0.9916	0.9769	1.029	**0.999**	0.0266	2.665
Antimony	123	0.9842	0.9835	0.9818	**0.9832**	0.0013	0.1279
Silver	107	1.63	1.627	1.66	**1.639**	0.0182	1.11
Silver	109	1.634	1.612	1.617	**1.621**	0.0115	0.7116

Internal Standard Factors:

Rhodium	103	1.064	1.057	1.068	**1.064**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 21:18					
Antimony	121	0.8454	0.8474	0.8593	**0.8507**	0.0075	0.8852
Antimony	123	0.8376	0.8238	0.8333	**0.8316**	0.0071	0.8516
Silver	107	1.654	1.678	1.662	**1.664**	0.0125	0.7512
Silver	109	1.689	1.655	1.663	**1.669**	0.0178	1.065

Internal Standard Factors:

Rhodium	103	1.088	1.082	1.078	**1.088**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV11			Mean	SD	%RSD
TimeStamp		12/7/09 21:21					
Antimony	121	25.17	24.86	24.64	**24.89**	0.2657	1.067
Antimony	123	25.08	24.65	24.49	**24.74**	0.3045	1.231
Silver	107	25.44	25.18	25.28	**25.3**	0.1321	0.5222
Silver	109	25.93	25.19	25.17	**25.43**	0.4299	1.691

Internal Standard Factors:

Rhodium	103	1.028	1.008	0.993	**1.028**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB11			Mean	SD	%RSD
TimeStamp		12/7/09 21:24					
Antimony	121	-0.0427	-0.0478	-0.0434	**-0.0446**	0.0028	6.206
Antimony	123	-0.0377	-0.0441	-0.0495	**-0.0438**	0.0059	13.47
Silver	107	0.0118	0.0096	0.008	**0.0098**	0.0019	19.26
Silver	109	0.0071	0.0105	0.0087	**0.0088**	0.0017	19.68

Internal Standard Factors:

Rhodium	103	1.011	1.013	0.977	**1.011**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 21:26					
Antimony	121	0.1613	0.1467	0.1467	**0.1516**	0.0085	5.577
Antimony	123	0.1628	0.1755	0.1485	**0.1622**	0.0135	8.33
Silver	107	0.353	0.3511	0.369	**0.3577**	0.0099	2.755
Silver	109	0.3535	0.3524	0.3527	**0.3528**	0.0006	0.1731

Internal Standard Factors:

Rhodium	103	1.007	0.996	0.978	**1.007**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/5 +10/50A			Mean	SD	%RSD
TimeStamp		12/7/09 21:29					
Antimony	121	50.87	49.85	50.32	**50.35**	0.5114	1.016
Antimony	123	50.75	50.01	50.52	**50.42**	0.3803	0.7542
Silver	107	11.26	11.3	11.28	**11.28**	0.0232	0.2056
Silver	109	11.47	11.36	11.32	**11.38**	0.074	0.6502

Internal Standard Factors:

Rhodium	103	1.087	1.053	1.066	**1.087**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-002 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 21:32					
Antimony	121	28.17	28.35	28.42	**28.31**	0.131	0.4625
Antimony	123	27.96	28.25	28.08	**28.09**	0.1474	0.5248
Silver	107	4.78	4.773	4.744	**4.766**	0.0188	0.3939
Silver	109	4.782	4.785	4.786	**4.784**	0.0023	0.0485

Internal Standard Factors:

Rhodium	103	1.021	1.018	1.01	**1.021**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-001 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:35					
Antimony	121	1.889	1.94	1.983	**1.937**	0.047	2.425
Antimony	123	1.945	1.959	1.988	**1.964**	0.0221	1.123
Silver	107	4.187	4.218	4.214	**4.206**	0.0164	0.3888
Silver	109	4.162	4.116	4.199	**4.159**	0.0417	1.002

Internal Standard Factors:

Rhodium	103	1.14	1.124	1.137	**1.14**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-003 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:38					
Antimony	121	1.636	1.627	1.604	**1.622**	0.0167	1.028
Antimony	123	1.586	1.58	1.594	**1.587**	0.0071	0.4486
Silver	107	2.186	2.163	2.142	**2.164**	0.0219	1.011
Silver	109	2.183	2.182	2.204	**2.19**	0.0121	0.5544

Internal Standard Factors:

Rhodium	103	1.103	1.097	1.102	**1.103**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-004 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:41					
Antimony	121	2.415	2.351	2.351	**2.372**	0.0369	1.556
Antimony	123	2.472	2.363	2.351	**2.395**	0.0663	2.77
Silver	107	3.011	2.987	2.982	**2.993**	0.0155	0.5174
Silver	109	3.029	2.956	2.943	**2.976**	0.0461	1.551

Internal Standard Factors:

Rhodium	103	1.121	1.087	1.084	**1.121**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-005 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:44					
Antimony	121	1.056	1.052	1.04	**1.049**	0.0084	0.801
Antimony	123	1.056	1.056	1.068	**1.06**	0.0067	0.6364
Silver	107	3.776	3.703	3.682	**3.72**	0.0496	1.332
Silver	109	3.754	3.639	3.648	**3.68**	0.0643	1.747

Internal Standard Factors:

Rhodium	103	1.138	1.123	1.124	**1.138**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-006 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:47					
Antimony	121	1.702	1.745	1.727	**1.725**	0.0215	1.244
Antimony	123	1.697	1.681	1.651	**1.676**	0.0233	1.387
Silver	107	3.607	3.663	3.601	**3.624**	0.0343	0.948
Silver	109	3.633	3.59	3.625	**3.616**	0.0228	0.63

Internal Standard Factors:

Rhodium	103	1.155	1.132	1.13	**1.155**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-007 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:50					
Antimony	121	1.343	1.356	1.348	**1.349**	0.0064	0.4747
Antimony	123	1.338	1.336	1.347	**1.34**	0.0062	0.463
Silver	107	1.86	1.895	1.859	**1.871**	0.0205	1.095
Silver	109	1.887	1.858	1.897	**1.881**	0.0201	1.07

Internal Standard Factors:

Rhodium	103	1.104	1.096	1.105	**1.104**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-008 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 21:53					
Antimony	121	1.523	1.479	1.491	**1.498**	0.0224	1.493
Antimony	123	1.503	1.444	1.468	**1.472**	0.0295	2.005
Silver	107	2.305	2.278	2.309	**2.297**	0.0169	0.7373
Silver	109	2.342	2.245	2.255	**2.281**	0.053	2.324

Internal Standard Factors:

Rhodium	103	1.115	1.089	1.097	**1.115**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV12			Mean	SD	%RSD
TimeStamp		12/7/09 21:56					
Antimony	121	24.6	24.73	24.71	**24.68**	0.0687	0.2783
Antimony	123	24.46	24.63	24.52	**24.54**	0.0864	0.3522
Silver	107	25.23	24.88	24.86	**24.99**	0.2069	0.8277
Silver	109	25.14	24.92	24.86	**24.97**	0.1479	0.5922

Internal Standard Factors:

Rhodium	103	1.02	0.999	0.994	**1.02**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB12			Mean	SD	%RSD
TimeStamp		12/7/09 21:59					
Antimony	121	-0.0438	-0.0495	-0.0449	**-0.046**	0.003	6.544
Antimony	123	-0.0455	-0.0463	-0.0447	**-0.0455**	0.0008	1.744
Silver	107	0.0146	0.0087	0.012	**0.0117**	0.003	25.36
Silver	109	0.0126	0.0127	0.0097	**0.0116**	0.0017	14.55

Internal Standard Factors:

Rhodium	103	1.027	1.015	0.981	**1.027**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-009 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:00					
Antimony	121	1.543	1.453	1.388	**1.462**	0.078	5.341
Antimony	123	1.537	1.431	1.34	**1.436**	0.0987	6.873
Silver	107	5.286	5.113	4.901	**5.1**	0.1929	3.782
Silver	109	5.305	5.098	4.88	**5.094**	0.2125	4.172

Internal Standard Factors:

Rhodium	103	1.187	1.152	1.113	**1.187**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-010 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:03					
Antimony	121	2.218	2.102	2.096	**2.139**	0.0689	3.224
Antimony	123	2.193	2.149	2.151	**2.165**	0.0249	1.15
Silver	107	6.547	6.479	6.54	**6.522**	0.0376	0.5761
Silver	109	6.58	6.49	6.49	**6.52**	0.052	0.797

Internal Standard Factors:

Rhodium	103	1.146	1.127	1.123	**1.146**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-011 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:07					
Antimony	121	4.842	4.49	4.329	**4.554**	0.2624	5.762
Antimony	123	4.854	4.412	4.311	**4.526**	0.2887	6.379
Silver	107	7.315	6.792	6.645	**6.917**	0.3522	5.092
Silver	109	7.306	6.764	6.699	**6.923**	0.333	4.81

Internal Standard Factors:

Rhodium	103	1.189	1.116	1.076	**1.189**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-012 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:10					
Antimony	121	18.56	18.74	18.73	**18.68**	0.1022	0.5471
Antimony	123	18.69	18.56	18.74	**18.66**	0.0909	0.4868
Silver	107	7.748	7.666	7.883	**7.766**	0.1096	1.412
Silver	109	7.875	7.742	7.831	**7.816**	0.0682	0.8724

Internal Standard Factors:

Rhodium	103	1.119	1.109	1.106	**1.119**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-013 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:13					
Antimony	121	1.625	1.566	1.56	**1.584**	0.0358	2.258
Antimony	123	1.564	1.596	1.516	**1.559**	0.0399	2.559
Silver	107	3.687	3.637	3.575	**3.633**	0.0562	1.547
Silver	109	3.655	3.672	3.66	**3.662**	0.0085	0.2324

Internal Standard Factors:

Rhodium	103	1.109	1.088	1.074	**1.109**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-014 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:16					
Antimony	121	1.601	1.613	1.655	**1.623**	0.0284	1.748
Antimony	123	1.569	1.607	1.594	**1.59**	0.0193	1.211
Silver	107	4.813	4.855	4.862	**4.843**	0.0266	0.5482
Silver	109	4.787	4.876	4.84	**4.834**	0.0445	0.9196

Internal Standard Factors:

Rhodium	103	1.121	1.123	1.112	**1.121**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-015 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:19					
Antimony	121	1.553	1.551	1.559	**1.555**	0.0041	0.2629
Antimony	123	1.608	1.536	1.538	**1.561**	0.0407	2.609
Silver	107	7.496	7.344	7.467	**7.435**	0.0809	1.088
Silver	109	7.522	7.465	7.414	**7.467**	0.054	0.723

Internal Standard Factors:

Rhodium	103	1.12	1.098	1.098	**1.12**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-016 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:22					
Antimony	121	2.317	2.236	2.261	**2.271**	0.0418	1.84
Antimony	123	2.283	2.218	2.23	**2.244**	0.0348	1.551
Silver	107	3.685	3.667	3.648	**3.667**	0.0185	0.5042
Silver	109	3.698	3.638	3.596	**3.644**	0.0514	1.41

Internal Standard Factors:

Rhodium	103	1.135	1.117	1.109	**1.135**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-017 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:25					
Antimony	121	1.459	1.534	1.529	**1.507**	0.042	2.786
Antimony	123	1.461	1.449	1.484	**1.465**	0.0179	1.222
Silver	107	3.898	3.903	3.798	**3.866**	0.0593	1.535
Silver	109	3.899	3.914	3.855	**3.889**	0.0306	0.7877

Internal Standard Factors:

Rhodium	103	1.095	1.083	1.071	**1.095**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-018 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:27					
Antimony	121	1.766	1.772	1.784	**1.774**	0.0094	0.5314
Antimony	123	1.775	1.782	1.744	**1.767**	0.0201	1.138
Silver	107	1.833	1.809	1.849	**1.83**	0.0201	1.097
Silver	109	1.827	1.8	1.824	**1.817**	0.0146	0.8051

Internal Standard Factors:

Rhodium	103	1.094	1.094	1.091	**1.094**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV13			Mean	SD	%RSD
TimeStamp		12/7/09 22:30					
Antimony	121	26.85	25.47	25.33	**25.88**	0.8422	3.254
Antimony	123	26.65	25.55	25.22	**25.81**	0.749	2.902
Silver	107	26.86	25.78	25.55	**26.06**	0.6976	2.677
Silver	109	26.75	25.76	25.91	**26.14**	0.5352	2.047

Internal Standard Factors:

Rhodium	103	1.068	1.019	1.014	**1.068**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB13			Mean	SD	%RSD
TimeStamp		12/7/09 22:33					
Antimony	121	-0.0451	-0.0438	-0.0417	**-0.0435**	0.0017	3.915
Antimony	123	-0.0329	-0.0405	-0.0532	**-0.0422**	0.0103	24.31
Silver	107	0.0128	0.015	0.0127	**0.0135**	0.0013	9.721
Silver	109	0.0097	0.0112	0.0144	**0.0118**	0.0024	20.18

Internal Standard Factors:

Rhodium	103	1.028	1.007	0.996	**1.028**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-MB 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:36					
Antimony	121	-0.0626	-0.0603	-0.0625	**-0.0618**	0.0013	2.095
Antimony	123	-0.059	-0.0668	-0.064	**-0.0633**	0.0039	6.226
Silver	107	-0.0039	-0.0038	-0.0032	**-0.0036**	0.0004	11.04
Silver	109	-0.0054	-0.0043	-0.0055	**-0.005**	0.0007	13.34

Internal Standard Factors:

Rhodium	103	1.064	1.004	0.994	**1.064**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		LCSS K0911120 1/50			Mean	SD	%RSD
TimeStamp		12/7/09 22:37					
Antimony	121	15.55	17.12	18.14	**16.94**	1.306	7.707
Antimony	123	15.37	16.98	18.15	**16.83**	1.395	8.289
Silver	107	13.86	15.25	16.03	**15.04**	1.098	7.296
Silver	109	13.93	15.08	16.22	**15.08**	1.149	7.62

Internal Standard Factors:

Rhodium	103	0.941	0.96	0.996	**0.941**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:41					
Antimony	121	0.5956	0.5973	0.6192	**0.604**	0.0132	2.183
Antimony	123	0.5809	0.599	0.6569	**0.6123**	0.0397	6.486
Silver	107	0.5311	0.5361	0.5727	**0.5467**	0.0227	4.156
Silver	109	0.5376	0.5412	0.5625	**0.5471**	0.0135	2.458

Internal Standard Factors:

Rhodium	103	1.02	1.007	1.03	**1.02**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/5D			Mean	SD	%RSD
TimeStamp		12/7/09 22:43					
Antimony	121	0.6892	0.66	0.666	**0.6717**	0.0154	2.294
Antimony	123	0.7004	0.6665	0.6563	**0.6744**	0.0231	3.419
Silver	107	0.5304	0.5308	0.5135	**0.5249**	0.0099	1.88
Silver	109	0.5369	0.5305	0.5242	**0.5306**	0.0063	1.195

Internal Standard Factors:

Rhodium	103	1.069	1.029	1.024	**1.069**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/25L			Mean	SD	%RSD
TimeStamp		12/7/09 22:46					
Antimony	121	0.1518	0.134	0.1247	**0.1368**	0.0138	10.07
Antimony	123	0.1427	0.122	0.1424	**0.1357**	0.0118	8.73
Silver	107	0.1791	0.1669	0.1603	**0.1688**	0.0095	5.655
Silver	109	0.1709	0.1776	0.1641	**0.1709**	0.0067	3.948

Internal Standard Factors:

Rhodium	103	1.025	0.999	0.986	**1.025**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/5 +10/50A			Mean	SD	%RSD
TimeStamp		12/7/09 22:49					
Antimony	121	52.15	50.48	49.87	**50.83**	1.181	2.324
Antimony	123	51.6	50.62	49.88	**50.7**	0.8634	1.703
Silver	107	10.5	10.55	10.37	**10.48**	0.0947	0.9044
Silver	109	10.77	10.51	10.41	**10.57**	0.186	1.76

Internal Standard Factors:

Rhodium	103	1.058	1.023	1.005	**1.058**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-019 1/25S			Mean	SD	%RSD
TimeStamp		12/7/09 22:52					
Antimony	121	24.25	24.74	24.34	**24.44**	0.2578	1.055
Antimony	123	24.15	24.72	24.31	**24.39**	0.2935	1.203
Silver	107	4.343	4.361	4.297	**4.334**	0.0328	0.7573
Silver	109	4.32	4.323	4.31	**4.318**	0.0066	0.1528

Internal Standard Factors:

Rhodium	103	1.013	1.012	0.999	**1.013**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-020 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:55					
Antimony	121	0.5078	0.5074	0.4753	**0.4968**	0.0187	3.757
Antimony	123	0.485	0.5041	0.4662	**0.4851**	0.019	3.911
Silver	107	0.7744	0.7694	0.7499	**0.7646**	0.0129	1.689
Silver	109	0.765	0.7692	0.7264	**0.7535**	0.0236	3.127

Internal Standard Factors:

Rhodium	103	1.051	1.047	1.027	**1.051**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-021 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 22:58					
Antimony	121	13.82	13.53	13.61	**13.65**	0.1508	1.105
Antimony	123	13.49	13.57	13.36	**13.47**	0.1091	0.8096
Silver	107	1.673	1.634	1.629	**1.645**	0.0239	1.454
Silver	109	1.685	1.6	1.584	**1.623**	0.0539	3.322

Internal Standard Factors:

Rhodium	103	1.09	1.066	1.055	**1.09**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		K0911120-022 1/5			Mean	SD	%RSD
TimeStamp		12/7/09 23:01					
Antimony	121	1.229	1.252	1.257	**1.246**	0.0148	1.189
Antimony	123	1.217	1.234	1.232	**1.228**	0.0094	0.7665
Silver	107	1.822	1.775	1.784	**1.794**	0.0249	1.386
Silver	109	1.849	1.786	1.843	**1.826**	0.0346	1.893

Internal Standard Factors:

Rhodium	103	1.065	1.053	1.056	**1.065**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCV14			Mean	SD	%RSD
TimeStamp		12/7/09 23:04					
Antimony	121	29.46	26.11	24.94	**26.83**	2.347	8.744
Antimony	123	29.39	25.99	24.78	**26.72**	2.387	8.933
Silver	107	29.17	26.14	25.31	**26.87**	2.032	7.562
Silver	109	29.29	25.81	25.3	**26.8**	2.173	8.11

Internal Standard Factors:

Rhodium	103	1.122	1.026	0.999	**1.122**	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 12-07-09C
Units: µg/L (ppb)

Method: EPA 6020
Analyst: Greg Jasper
STARLIMS #182068

Sample Name:		CCB14			Mean	SD	%RSD
TimeStamp		12/7/09 23:07					
Antimony	121	-0.04	-0.0427	-0.0373	**-0.04**	0.0027	6.687
Antimony	123	-0.0431	-0.0463	-0.0502	**-0.0465**	0.0036	7.639
Silver	107	0.0149	0.0165	0.0148	**0.0154**	0.0009	6.094
Silver	109	0.0143	0.0141	0.0156	**0.0147**	0.0008	5.536

Internal Standard Factors:

Rhodium	103	1.043	1.007	1.016	**1.043**	n/a	n/a

Columbia Analytical Services

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INORGANIC ANALYSIS DATA PACKAGE

Client: Windward Environmental, LLC
Project Name: Passaic RI/FS Sediment
Project No.: 09.58.02.31

Service Request: K0911120

Sample Name:	Lab Code:
LPRT05A-RB	K0911120-023
LPR-RW	K0911120-024
LPR-RWD	K0911120-024D
LPR-RWS	K0911120-024S
Method Blank	K0911120-MB

Comments:

Approved By: _____ **Date:** 12/18/09

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.31	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: LPRT05A-RB **Lab Code:** K0911120-023

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6020	2.0	0.3	1.0	12/01/09	12/11/09	1.4	J	
Antimony	6020	0.050	0.005	1.0	12/01/09	12/11/09	0.008	J	
Arsenic	6020	0.5	0.1	1.0	12/01/09	12/11/09	0.1	U	
Barium	6020	0.050	0.020	1.0	12/01/09	12/11/09	0.029	J	
Beryllium	6020	0.020	0.006	1.0	12/01/09	12/14/09	0.006	U	
Cadmium	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Calcium	6010B	50.0	6.0	1.0	12/04/09	12/07/09	6.0	U	
Chromium	6020	0.20	0.02	1.0	12/01/09	12/11/09	0.17	J	
Cobalt	6020	0.020	0.006	1.0	12/01/09	12/11/09	0.006	U	
Copper	6020	0.10	0.02	1.0	12/01/09	12/11/09	0.11		
Iron	6010B	20.0	0.8	1.0	12/04/09	12/07/09	0.9	J	
Lead	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.016	J	
Magnesium	6010B	20.0	0.3	1.0	12/04/09	12/07/09	1.3	J	
Manganese	6020	0.050	0.006	1.0	12/01/09	12/11/09	0.113		
Nickel	6020	0.20	0.02	1.0	12/01/09	12/11/09	0.06	J	
Potassium	6010B	400	40	1.0	12/04/09	12/07/09	40	U	
Selenium	7742	1.0	0.20	2.0	12/01/09	12/14/09	0.20	U	
Silver	6020	0.020	0.004	1.0	12/01/09	12/11/09	0.004	U	
Sodium	6010B	100	20	1.0	12/04/09	12/07/09	20	U	
Thallium	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Titanium	6010B	10.0	2.0	1.0	12/01/09	12/08/09	2.0	U	
Vanadium	6020	0.20	0.03	1.0	12/01/09	12/11/09	0.03	U	
Zinc	6020	0.5	0.2	1.0	12/01/09	12/11/09	0.9		

% Solids: 0.0

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.31	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: LPR-RW **Lab Code:** K0911120-024

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6020	2.0	0.3	1.0	12/01/09	12/11/09	1.5	J	
Antimony	6020	0.050	0.005	1.0	12/01/09	12/11/09	0.005	J	
Arsenic	6020	0.5	0.1	1.0	12/01/09	12/11/09	0.2	J	
Barium	6020	0.050	0.020	1.0	12/01/09	12/11/09	0.026	J	
Beryllium	6020	0.020	0.006	1.0	12/01/09	12/14/09	0.007	J	
Cadmium	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Calcium	6010B	50.0	6.0	1.0	12/04/09	12/07/09	13.8	J	
Chromium	6020	0.20	0.02	1.0	12/01/09	12/11/09	0.15	J	
Cobalt	6020	0.020	0.006	1.0	12/01/09	12/11/09	0.006	U	
Copper	6020	0.10	0.02	1.0	12/01/09	12/11/09	0.09	J	
Iron	6010B	20.0	0.8	1.0	12/04/09	12/07/09	1.4	J	
Lead	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.011	J	
Magnesium	6010B	20.0	0.3	1.0	12/04/09	12/07/09	2.1	J	
Manganese	6020	0.050	0.006	1.0	12/01/09	12/11/09	0.038	J	
Nickel	6020	0.20	0.02	1.0	12/01/09	12/11/09	0.02	U	
Potassium	6010B	400	40	1.0	12/04/09	12/07/09	76	J	
Selenium	7742	1.0	0.20	2.0	12/01/09	12/14/09	0.20	U	
Silver	6020	0.020	0.004	1.0	12/01/09	12/11/09	0.004	U	
Sodium	6010B	100	20	1.0	12/04/09	12/07/09	449		
Thallium	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Titanium	6010B	10.0	2.0	1.0	12/01/09	12/08/09	2.0	U	
Vanadium	6020	0.20	0.03	1.0	12/01/09	12/11/09	0.03	U	
Zinc	6020	0.5	0.2	1.0	12/01/09	12/11/09	0.5		

% Solids: 0.0

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Windward Environmental, LLC
Service Request: K0911120
Project No.: 09.58.02.31
Date Collected:
Project Name: Passaic RI/FS Sediment
Date Received:
Matrix: WATER
Units: ug/L
Basis: N/A

Sample Name: Mehod Blank
Lab Code: K0911120-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6020	2.0	0.3	1.0	12/01/09	12/13/09	0.3	J	
Antimony	6020	0.050	0.005	1.0	12/01/09	12/11/09	0.005	U	
Arsenic	6020	0.5	0.1	1.0	12/01/09	12/11/09	0.1	U	
Barium	6020	0.050	0.020	1.0	12/01/09	12/11/09	0.020	U	
Beryllium	6020	0.020	0.006	1.0	12/01/09	12/14/09	0.006	U	
Cadmium	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Calcium	6010B	50.0	6.0	1.0	12/04/09	12/07/09	6.5	J	
Chromium	6020	0.20	0.02	1.0	12/01/09	12/11/09	0.06	J	
Cobalt	6020	0.020	0.006	1.0	12/01/09	12/11/09	0.006	U	
Copper	6020	0.10	0.02	1.0	12/01/09	12/11/09	0.02	U	
Iron	6010B	20.0	0.8	1.0	12/04/09	12/07/09	0.8	U	
Lead	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Magnesium	6010B	20.0	0.3	1.0	12/04/09	12/07/09	1.0	J	
Manganese	6020	0.050	0.006	1.0	12/01/09	12/11/09	0.016	J	
Nickel	6020	0.20	0.02	1.0	12/01/09	12/11/09	0.02	U	
Potassium	6010B	400	40	1.0	12/04/09	12/07/09	40	U	
Selenium	7742	1.0	0.20	2.0	12/01/09	12/14/09	0.20	U	
Silver	6020	0.020	0.004	1.0	12/01/09	12/11/09	0.004	U	
Sodium	6010B	100	20	1.0	12/04/09	12/07/09	20	U	
Thallium	6020	0.020	0.005	1.0	12/01/09	12/11/09	0.005	U	
Titanium	6010B	10.0	2.0	1.0	12/01/09	12/08/09	2.0	U	
Vanadium	6020	0.20	0.03	1.0	12/01/09	12/11/09	0.03	U	
Zinc	6020	0.5	0.2	1.0	12/01/09	12/11/09	0.2	U	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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	100.0	100.0	100	25.0	24.5	98	24.6	98	6020
Antimony	25.0	25.0	100	25.0	24.9	100	25.0	100	6020
Arsenic	25.0	25.7	103	25.0	25.3	101	25.3	101	6020
Barium	100.0	109.3	109	25.0	24.9	100	25.0	100	6020
Beryllium	2.50	2.54	102	25.00	24.56	98	24.12	96	6020
Cadmium	12.5	12.9	103	25.0	24.9	100	24.9	100	6020
Calcium	5000	5094	102	2500	2509	100	2411	96	6010B
Calcium	12500	12776	102	25000	25420	102	25321	101	6010B
Chromium	10.0	10.6	106	25.0	25.2	101	25.0	100	6020
Cobalt	25.0	26.5	106	25.0	24.9	100	24.8	99	6020
Copper	12.5	13.6	109	25.0	25.2	101	25.4	102	6020
Iron	2500	2525	101	500	492	98	496	99	6010B
Iron	10000	10159	102	25000	25154	101	25056	100	6010B
Lead	25.0	26.0	104	25.0	25.3	101	25.0	100	6020
Magnesium	5000	5073	101	2000	2044	102	2018	101	6010B
Magnesium	12500	12261	98	25000	25289	101	24183	97	6010B
Manganese	25.0	26.7	107	25.0	25.2	101	24.7	99	6020
Nickel	25.0	26.7	107	25.0	25.1	100	25.0	100	6020
Potassium	12500	11952	96	10000	10123	101	9407	94	6010B
Selenium	7.5	7.61	101	7.5	7.54	101	7.64	102	7742
Silver	12.5	13.4	107	25.0	25.0	100	25.1	100	6020
Sodium	12500	11900	95	10000	9935	99	9400	94	6010B
Thallium	25.0	26.4	106	25.0	25.3	101	25.1	100	6020
Titanium	2000	1980	99	500	493	99	493	99	6010B
Vanadium	25.0	26.8	107	25.0	24.7	99	24.7	99	6020
Zinc	25.0	26.6	106	25.0	25.0	100	25.0	100	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	25.9	104	26.0	104	6020
Antimony				25.0	25.4	102	24.9	100	6020
Arsenic				25.0	26.2	105	26.5	106	6020
Barium				25.0	25.6	102	25.5	102	6020
Beryllium				25.00	24.14	97			6020
Cadmium				25.0	25.4	102	25.1	100	6020
Calcium				2500	2383	95			6010B
Calcium				25000	25365	101	25321	101	6010B
Chromium				25.0	25.6	102	25.7	103	6020
Cobalt				25.0	25.2	101	25.3	101	6020
Copper				25.0	26.1	104	25.8	103	6020
Iron				500	494	99			6010B
Iron				25000	25400	102	24789	99	6010B
Lead				25.0	25.5	102	25.4	102	6020
Magnesium				2000	2006	100			6010B
Magnesium				25000	25250	101	25260	101	6010B
Manganese				25.0	24.5	98	24.7	99	6020
Nickel				25.0	25.8	103	25.6	102	6020
Potassium				10000	10036	100	9935	99	6010B
Selenium				7.5	7.47	100			7742
Silver				25.0	25.6	102	25.5	102	6020
Sodium				10000	9980	100	9804	98	6010B
Thallium				25.0	25.6	102	25.5	102	6020
Titanium				500	489	98	490	98	6010B
Vanadium				25.0	25.6	102	25.6	102	6020
Zinc				25.0	24.7	99	25.1	100	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	25.7	103			6020
Antimony				25.0	25.0	100			6020
Arsenic				25.0	25.6	102			6020
Barium				25.0	25.5	102			6020
Cadmium				25.0	25.1	100			6020
Chromium				25.0	25.6	102			6020
Cobalt				25.0	25.1	100			6020
Copper				25.0	25.8	103			6020
Lead				25.0	25.4	102			6020
Manganese				25.0	24.7	99			6020
Nickel				25.0	25.6	102			6020
Silver				25.0	25.5	102			6020
Thallium				25.0	25.5	102			6020
Vanadium				25.0	25.4	102			6020
Zinc				25.0	25.0	100			6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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	100.0	102.7	103	25.0	24.9	100	26.3	105	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	25.7	103	25.5	102	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	25.6	102	24.9	100	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	25.1	100	24.9	100	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	25.4	102	24.3	97	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	24.5	98	25.5	102	6020

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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				25.0	23.8	95			6020

Metals
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				2.00	1.82	91		
Antimony				0.05	0.04	80		
Arsenic				0.5	0.70	140		
Barium				0.1	0.05	100		
Beryllium				0.02	0.019	95		
Cadmium				0.02	0.02	100		
Calcium				50.00	56.02	112		
Chromium				0.20	0.20	100		
Cobalt				0.02	0.02	100		
Copper				0.10	0.11	110		
Iron				20.00	17.03	85		
Lead				0.02	0.021	105		
Magnesium				20.00	21.73	109		
Manganese				0.05	0.05	100		
Nickel				0.20	0.21	105		
Potassium				400.00	397.71	99		
Selenium	0.5	0.52	104.0					
Silver				0.02	0.020	100		
Sodium				200.00	212.09	106		
Thallium				0.02	0.02	100		
Titanium				10.00	9.07	91		
Vanadium				0.20	0.19	95		
Zinc				0.50	0.56	112		

Metals
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				2.00	1.97	98		

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum	0.3	U	0.3	U	0.3	U	0.3	U	6020
Antimony	0.005	U	0.005	U	0.005	U	0.005	U	6020
Arsenic	0.10	U	0.10	U	0.10	U	0.10	U	6020
Barium	0.020	U	0.020	U	0.020	U	0.020	U	6020
Beryllium	0.006	U	0.006	U	0.006	U	0.006	U	6020
Cadmium	0.005	U	0.005	U	0.005	U	0.005	U	6020
Calcium	6.0	U	6.0	U	6.0	U	6.0	U	6010B
Chromium	0.02	U	0.02	U	0.02	J	0.04	J	6020
Cobalt	0.006	U	0.006	U	0.006	U	0.006	U	6020
Copper	0.02	U	0.02	U	0.02	U	0.02	U	6020
Iron	1.8	J	-2.2	J	1.1	J	-0.8	J	6010B
Lead	0.005	U	0.005	U	0.005	U	0.005	U	6020
Magnesium	0.3	U	0.3	U	1.3	J	1.2	J	6010B
Manganese	0.006	U	0.006	U	0.006	U	0.006	J	6020
Nickel	0.02	U	0.02	U	0.02	U	0.02	U	6020
Potassium	40	U	40	U	40	U	40	U	6010B
Selenium	0.1	U	0.1	U	0.1	U	0.1	J	7742
Silver	0.004	U	0.004	U	0.004	U	0.004	U	6020
Sodium	20	U	20	U	20	U	20	U	6010B
Thallium	0.005	U	0.005	U	0.005	U	0.007	J	6020
Titanium	2.0	U	2.0	U	2.0	U	2.0	U	6010B
Vanadium	0.03	U	0.03	U	0.03	U	0.03	U	6020
Zinc	0.20	U	0.20	U	0.20	U	0.20	U	6020

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			0.3	U	0.3	U			6020
Antimony			0.005	U	0.005	U			6020
Arsenic			0.10	U	0.12	J			6020
Barium			0.020	U	0.020	U			6020
Cadmium			0.005	U	0.005	U			6020
Chromium			0.02	J	0.04	J			6020
Cobalt			0.006	U	0.006	U			6020
Copper			0.02	U	0.02	U			6020
Lead			0.005	U	0.005	U			6020
Manganese			0.006	U	0.006	U			6020
Nickel			0.02	U	0.02	U			6020
Silver			0.004	U	0.004	U			6020
Thallium			0.005	U	0.005	U			6020
Titanium			2.0	U					6010B
Vanadium			0.03	U	0.03	U			6020
Zinc			0.20	U	0.20	U			6020

Metals

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BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum	0.3	U	0.3	U	0.3	U	0.3	U	6020

Metals

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			0.3	U	0.3	U	0.3	U	6020

Metals

- 3 -

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			0.3	U	0.3	U	0.3	U	6020

Metals

- 3 -

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			0.3	U	0.3	U	0.3	U	6020

Metals

- 3 -

BLANKS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Concentration Units: ug/L

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Method
Aluminum			0.3	U					6020

Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-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
Calcium	500000	500000	502530	500066.9	100.0			
Iron	200000	200000	203617	197651.8	98.8			
Magnesium	500000	500000	506209	500930.5	100.2			
Potassium			-25	-62.6				
Sodium			77	39.3				
Titanium			58	56.9				

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

Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-MS-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			19309	20233				
Antimony			0.04	0.04				
Arsenic	0.00	25.00	-0.03	28.48	114			
Barium	0.00		0.11	0.11				
Beryllium	0.00		-0.001	0.012				
Cadmium	0.00	25.00	0.04	27.62	110			
Chromium	0.00	50.00	0.27	57.48	115			
Cobalt		50	0.80	56.19	112			
Copper		50	0.52	54.0	108			
Lead			0.14	0.14				
Manganese		50	1.78	58.23	116			
Nickel		50	1.21	55.0	110			
Silver	0.0	12.5	0.0	11.0	88			
Thallium			0.060	0.066				
Vanadium		50	-0.12	57.47	115			
Zinc		25	1.32	28.5	114			

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

Metals

ICP INTERFERENCE CHECK SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-MS-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			21721	22554				

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

Columbia Analytical Services

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Windward Environmental, LLC

Service Request: K0911120

Project No.: 09.58.02.31

Units: UG/L

Project Name: Passaic RI/FS Sediment

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: LPR-RWS

Lab Code: K0911120-024S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	56 - 143	21.5		1.5	J	20.00	100.0		6020
Antimony	66 - 133	19.7		0.005	J	20.00	98.5		6020
Arsenic	72 - 129	20.0		0.2	J	20.00	99.0		6020
Barium	86 - 117	20.0		0.026	J	20.00	99.9		6020
Beryllium	73 - 125	19.0		0.007	J	20.00	95.0		6020
Cadmium	87 - 113	19.5		0.005	U	20.00	97.5		6020
Chromium	60 - 136	20.8		0.15	J	20.00	103.2		6020
Cobalt	84 - 115	20.0		0.006	U	20.00	100.0		6020
Copper	62 - 130	20.5		0.09	J	20.00	102.0		6020
Lead	76 - 117	20.1		0.011	J	20.00	100.4		6020
Manganese	25 - 180	20.0		0.038	J	20.00	99.8		6020
Nickel	78 - 117	20.3		0.02	U	20.00	101.4		6020
Selenium	67 - 128	15.6		0.20	U	20.00	78.0		7742
Silver	55 - 136	20.0		0.004	U	20.00	100.0		6020
Thallium	75 - 121	20.1		0.005	U	20.00	100.5		6020
Titanium	75 - 125	16.8		2.0	U	20.00	84.0		6010B
Vanadium	82 - 119	20.5		0.03	U	20.00	102.5		6020
Zinc	65 - 126	19.7		0.5		20.00	96.0		6020

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

Metals

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31 **Units:** UG/L

Project Name: Passaic RI/FS Sediment **Basis:** N/A

Matrix: WATER

Sample Name: LPRT05A-RBA **Lab Code:** K0911120-023A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	75 - 125	41.45		1.40		40.0	100		6020
Antimony	75 - 125	40.74		0.01		40.0	102		6020
Arsenic	75 - 125	42.89		0.10		40.0	107		6020
Barium	75 - 125	41.29		0.03		40.0	103		6020
Beryllium	75 - 125	39.588		0.006		40.0	99		6020
Cadmium	75 - 125	40.96		0.01		40.0	102		6020
Chromium	75 - 125	41.69		0.17		40.0	104		6020
Cobalt	75 - 125	41.37		0.01		40.0	103		6020
Copper	75 - 125	43.93		0.11		40.0	110		6020
Lead	75 - 125	41.84		0.02		40.0	105		6020
Manganese	75 - 125	40.87		0.11		40.0	102		6020
Nickel	75 - 125	42.61		0.06		40.0	106		6020
Silver	75 - 125	9.88		0.00		10.0	99		6020
Thallium	75 - 125	41.929		0.005		40.0	105		6020
Vanadium	75 - 125	41.67		0.03		40.0	104		6020
Zinc	75 - 125	41.68		0.90		40.0	102		6020

Metals

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DUPLICATES

Client: Windward Environmental, LLC
Service Request: K0911120
Project No.: 09.58.02.31
Units: UG/L
Project Name: Passaic RI/FS Sediment
Basis: N/A
Matrix: WATER
% Solids: 0.0

Sample Name: LPR-RWD
Lab Code: K0911120-024D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		1.5	J	1.5	J	0.0		6020
Antimony		0.005	J	0.006	J	18.2		6020
Arsenic		0.2	J	0.1	U	200.0		6020
Barium		0.026	J	0.035	J	29.5		6020
Beryllium		0.007	J	0.006	U	200.0		6020
Cadmium		0.005	U	0.005	U			6020
Chromium		0.15	J	0.18	J	18.2		6020
Cobalt		0.006	U	0.006	U			6020
Copper		0.09	J	0.08	J	11.8		6020
Lead		0.011	J	0.008	J	31.6		6020
Manganese		0.038	J	0.040	J	5.1		6020
Nickel		0.02	U	0.03	J	200.0		6020
Selenium		0.20	U	0.20	U			7742
Silver		0.004	U	0.004	U			6020
Thallium		0.005	U	0.005	U			6020
Titanium		2.0	U	2.0	U			6010B
Vanadium		0.03	U	0.03	U			6020
Zinc		0.5		0.8		46.2		6020

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

Metals

LABORATORY CONTROL SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Aqueous LCS Source: CAS MIXED **Solid LCS Source:**

Analyte	Aqueous: ug/L True	Found	%R	Solid: mg/kg True	Found	C	Limits	%R
Aluminum	20	20.0	100.0					
Antimony	20	20.2	101.0					
Arsenic	20	21.0	105.0					
Barium	20	21.0	105.0					
Beryllium	20	20.0	100.0					
Cadmium	20	20.1	100.5					
Calcium	12500	12900	103.2					
Chromium	20	20.6	103.0					
Cobalt	20	20.2	101.0					
Copper	20	20.8	104.0					
Iron	2500	2560	102.4					
Lead	20	20.3	101.5					
Magnesium	12500	12200	97.6					
Manganese	20	19.7	98.5					
Nickel	20	20.4	102.0					
Potassium	12500	12100	96.8					
Selenium	10	9.8	98.0					
Silver	20	20.4	102.0					
Sodium	12500	11900	95.2					
Thallium	20	20.4	102.0					
Titanium	20	17.5	87.5					
Vanadium	20	20.5	102.5					
Zinc	20	20.2	101.0					

Metals

LABORATORY CONTROL SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Aqueous LCS Source: CAS MIXED **Solid LCS Source:**

Analyte	Aqueous: ug/L True	Found	%R	Solid: mg/kg True	Found	C	Limits	%R
Calcium	12500	13000	104.0					
Iron	2500	2560	102.4					
Magnesium	12500	12300	98.4					
Potassium	12500	11900	95.2					
Sodium	12500	11800	94.4					

Metals

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ICP SERIAL DILUTIONS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.31 Units: UG/L

Project Name: Passaic RI/FS Sediment

Sample Name: LPRT05A-RBL Lab Code: K0911120-023L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	1.4	J	1.8	J	29		MS
Antimony	0.008	J	0.025	U	100.0		MS
Arsenic	0.1	U	0.5	U			MS
Barium	0.029	J	0.100	U	100.0		MS
Beryllium	0.006	U	0.030	U			MS
Cadmium	0.005	U	0.025	U			MS
Calcium	5.52	J	30.00	U	100.0		P
Chromium	0.17	J	0.27	J	59		MS
Cobalt	0.006	U	0.030	U			MS
Copper	0.11		0.27	J	145		MS
Iron	0.94	J	4.00	U	100.0		P
Lead	0.016	J	0.031	J	94		MS
Magnesium	1.32	J	3.85	J	191.7		P
Manganese	0.113		0.145	J	28		MS
Nickel	0.06	J	0.10	U	100.0		MS
Potassium	19	J	200	U	100.0		P
Silver	0.004	U	0.020	U			MS
Sodium	5.51	J	100.00	U	100.0		P
Thallium	0.005	U	0.025	U			MS
Titanium	2.00	U	10.00	U			P
Vanadium	0.03	U	0.15	U			MS
Zinc	0.90		2.91		223		MS

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP/ICP-MS ID #:

GFAA ID #: K-FLAA-02 AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Selenium	196.0		0.50	0.10	H

Comments:

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

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

GFAA ID #: AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Calcium	211.2		50	6.0	P
Iron	259.90		20	0.8	P
Magnesium	202.5		20	0.3	P
Potassium	766.49		400	40.0	P
Sodium	330.23		100	20.0	P
Titanium	334.94		10	2.0	P

Comments:

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP/ICP-MS ID #: K-ICP-MS-03

GFAA ID #: AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	27		2.0	0.3	MS
Antimony	123		0.050	0.005	MS
Arsenic	75		0.5	0.1	MS
Barium	137		0.050	0.020	MS
Beryllium	9		0.020	0.006	MS
Cadmium	111		0.020	0.005	MS
Chromium	52		0.20	0.020	MS
Cobalt	59		0.020	0.006	MS
Copper	65		0.10	0.02	MS
Lead	208		0.020	0.005	MS
Manganese	55		0.050	0.006	MS
Nickel	60		0.20	0.02	MS
Silver	107		0.020	0.004	MS
Thallium	205		0.020	0.005	MS
Vanadium	51		0.20	0.03	MS
Zinc	66		0.5	0.2	MS

Comments:

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As
Aluminum	308.215	0.0000000	0.0000000	0.0007780	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001540	-0.0001140	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0005570	0.0000000	0.0000000
Cadmium	228.802	0.0000000	0.0000000	0.0001300	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000810	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	-0.0000100	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000740	0.0000000	0.0000000
Phosphorus	214.9	-0.0001980	0.0000000	0.0005620	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	-0.0003360	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	-0.0000740	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	-0.0000720	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	-0.0000050	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0000070	0.0000000	0.0000000

Comments:

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Mn	Mo	Ni
Aluminum	308.215	-0.0011010	-0.0027710	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0002800	0.0089500	0.0000000	-0.0171880	0.0000000
Arsenic	189.042	0.0000000	0.0003840	0.0000000	0.0008500	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000730	0.0000000	0.0000000	0.0000240	-0.0001230
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0003120	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	-0.0009310	0.0000960
Copper	324.754	0.0000000	-0.0000360	0.0000000	0.0003860	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0002290	0.0000000	-0.0013930	0.0002420
Magnesium	202.5	0.1731030	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0000940	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0001380	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0003290	0.0000000	0.0000000	0.0000000	-0.0004550
Silicon	228.158	0.0000000	0.0000000	-0.0023220	0.0000000	0.0000000
Silver	328.068	-0.0000370	0.0000000	0.0000670	-0.0005240	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0048980	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0001570	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0002250
Vanadium	292.402	0.0000000	-0.0001040	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	-0.0016570	0.0000000	0.0000220	0.0000000

Comments:

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Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Windward Environmental, LLC Service Request: K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for: P	Ti	V		
Aluminum	308.215	0.0000000	0.0000000	0.0000000		
Antimony	206.838	0.0000000	0.0000000	0.0000000		
Arsenic	189.042	0.0000000	0.0000000	0.0000000		
Barium	493.409	0.0000000	0.0000000	-0.0010740		
Beryllium	313.042	0.0000000	-0.0000310	0.0012250		
Boron	249.678	0.0000000	0.0000000	0.0000000		
Cadmium	228.802	0.0000000	0.0000780	0.0000000		
Calcium	211.2	0.0000000	0.0000000	0.0000000		
Chromium	267.716	0.0000130	0.0000350	-0.0001880		
Cobalt	228.616	0.0000000	0.0015790	0.0000000		
Copper	324.754	0.0000000	0.0000000	-0.0002460		
Iron	271.4	0.0000000	0.0000000	0.0000000		
Lead	220.353	0.0000000	-0.0004290	0.0000000		
Magnesium	202.5	0.0000000	0.0000000	0.0000000		
Manganese	293.9	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000	0.0000000		
Nickel	231.604	0.0000000	0.0000000	0.0000000		
Phosphorus	214.9	0.0000000	0.0080450	-0.0016850		
Potassium	766.491	0.0000000	0.0000000	0.0000000		
Selenium	196.026	0.0000000	0.0000000	0.0000000		
Silicon	228.158	0.0000000	0.0000000	0.0000000		
Silver	328.068	0.0000000	0.0006230	0.0000000		
Sodium	588.995	0.0000000	0.0000000	0.0000000		
Strontium	421.552	0.0000000	-0.0037540	0.0000000		
Thallium	190.864	0.0000000	-0.0014760	0.0015400		
Tin	189.989	0.0000000	0.0000000	0.0000000		
Titanium	334.941	0.0000000	0.0000000	0.0003270		
Vanadium	292.402	0.0000000	0.0000000	0.0000000		
Zinc	213.856	0.0000000	0.0000000	0.0000000		

Comments:

Metals
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ICP LINEAR RANGES (QUARTERLY)

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-AES-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Calcium	5.000	1800000	6010B
Iron	5.000	900000	6010B
Magnesium	5.000	900000	6010B
Potassium	5.000	450000	6010B
Sodium	5.000	180000	6010B
Titanium	5.000	90000	6010B

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

ICP ID Number: K-ICP-MS-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	15.000	2000	6020
Antimony	15.000	2000	6020
Arsenic	15.000	2000	6020
Barium	15.000	2000	6020
Beryllium	15.000	2000	6020
Cadmium	15.000	2000	6020
Chromium	15.000	2000	6020
Cobalt	15.000	2000	6020
Copper	15.000	2000	6020
Lead	15.000	2000	6020
Manganese	15.000	2000	6020
Nickel	15.000	2000	6020
Silver	15.000	2000	6020
Thallium	15.000	2000	6020
Vanadium	15.000	1000	6020
Zinc	15.000	2000	6020

Comments:

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Method: F

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K0911120-023	12/1/2009	50.0	50.0
K0911120-024	12/1/2009	50.0	50.0
K0911120-024D	12/1/2009	50.0	50.0
K0911120-024S	12/1/2009	50.0	50.0
K0911120-MB	12/1/2009	50.0	50.0
LCSW	12/1/2009	50.0	50.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K0911120-023	12/1/2009	50.0	50.0
K0911120-024	12/1/2009	25.0	25.0
K0911120-024D	12/1/2009	25.0	25.0
K0911120-024S	12/1/2009	25.0	25.0
K0911120-MB	12/1/2009	50.0	50.0
LCSW	12/1/2009	50.0	50.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K0911120-023	12/4/2009	50.0	50.0
K0911120-024	12/4/2009	50.0	50.0
K0911120-MB	12/4/2009	50.0	50.0
LCSW1	12/4/2009	50.0	50.0
LCSW2	12/4/2009	50.0	50.0

Metals
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PREPARATION LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K0911120-023	12/1/2009	50.0	50.0
K0911120-024	12/1/2009	25.0	25.0
K0911120-024D	12/1/2009	25.0	25.0
K0911120-024S	12/1/2009	25.0	25.0
K0911120-MB	12/1/2009	50.0	50.0
LCSW	12/1/2009	50.0	50.0

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Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/14/2009 **End Date:** 12/14/2009

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	10:52																			X						
STD 0.5	1	10:55																			X						
STD 1.0	1	10:57																			X						
STD 5.0	1	10:59																			X						
STD 7.5	1	11:02																			X						
STD 10.0	1	11:04																			X						
ICV1	1	11:06																			X						
ICB1	1	11:09																			X						
ZZZZZZ	1	11:11																									
ZZZZZZ	1	11:14																									
CRA	1	11:17																			X						
CCV1	1	11:19																			X						
CCB1	1	11:21																			X						
K0911120-MB	2	11:24																			X						
LCSW	2	11:26																			X						
K0911120-023	2	11:28																			X						
K0911120-024	2	11:31																			X						
K0911120-024D	2	11:33																			X						
K0911120-024S	2	11:35																			X						
ZZZZZZ	2	11:38																									
ZZZZZZ	2	11:40																									
ZZZZZZ	2	11:43																									
ZZZZZZ	2	11:45																									
CCV2	1	11:47																			X						
CCB2	1	11:50																			X						
ZZZZZZ	2	11:52																									
ZZZZZZ	2	11:55																									
ZZZZZZ	2	11:57																									
ZZZZZZ	2	11:59																									
ZZZZZZ	2	12:02																									
ZZZZZZ	2	12:04																									
ZZZZZZ	1	12:06																									

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

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Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/14/2009 **End Date:** 12/14/2009

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	12:09																									
ZZZZZZ	1	12:11																									
ZZZZZZ	1	12:14																									
CCV3	1	12:16																			X						
CCB3	1	12:18																			X						
ZZZZZZ	1	12:21																									
ZZZZZZ	1	12:23																									
ZZZZZZ	1	12:26																									
ZZZZZZ	1	12:28																									
ZZZZZZ	1	12:30																									
ZZZZZZ	1	12:33																									
ZZZZZZ	1	12:35																									
ZZZZZZ	1	12:37																									
ZZZZZZ	1	12:40																									
ZZZZZZ	1	12:42																									
ZZZZZZ	1	12:44																									
ZZZZZZ	1	12:47																									
ZZZZZZ	1	12:49																									
ZZZZZZ	1	12:52																									
ZZZZZZ	1	12:54																									
ZZZZZZ	1	12:56																									
ZZZZZZ	1	13:01																									
ZZZZZZ	1	13:04																									
ZZZZZZ	1	13:06																									
ZZZZZZ	1	13:10																									

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

Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/7/2009 **End Date:** 12/7/2009

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	
Blank	1	08:47								X				X		X				X			X					
STDB	1	08:50								X				X		X				X			X					
STDA	1	08:54								X				X		X												
ICV1	1	08:57								X				X		X												*
ICV1	1	09:00																		X			X					
ICV1	1	09:03								X				X		X												
ICB1	1	09:06								X				X		X				X			X					
CCV1	1	09:17								X				X		X				X			X					
CCV1	1	09:25								X				X		X												*
CCB1	1	09:32								X				X		X				X			X					
CRDL1	1	09:35								X				X		X				X			X					
ICS-A1	1	09:38								X				X		X				X			X					
ICS-AB1	1	09:41								X				X		X				X			X					
ZZZZZZ	1	09:45																										
CCV2	1	09:48								X				X		X				X			X					
CCV2	1	09:51								X				X		X												*
CCB2	1	09:54								X				X		X				X			X					
K0911120-MB	1	09:57								X				X		X				X			X					
LCSW1	1	10:00								X				X		X				X			X					
LCSW2	1	10:03								X				X		X				X			X					
K0911120-023	1	10:06								X				X		X				X			X					
K0911120-023L	5	10:09								X				X		X				X			X					
K0911120-024	1	10:12								X				X		X				X			X					
ZZZZZZ	1	10:15																										
ZZZZZZ	1	10:18																										
ZZZZZZ	1	10:21																										
ZZZZZZ	1	10:24																										
CCV3	1	10:27								X				X		X				X			X					
CCV3	1	10:30								X				X		X												*
CCB3	1	10:33								X				X		X				X			X					

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

Columbia Analytical Services

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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/8/2009 **End Date:** 12/8/2009

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	
Blank	1	10:21																										*
STDB	1	10:24																										
STDA	1	10:27																										*
ICV1	1	10:30																										*
ZZZZZZ	1	10:33																										
ZZZZZZ	1	10:36																										
ZZZZZZ	1	10:39																										
ICB1	1	10:43																										*
CCV1	1	10:47								X				X		X				X			X					
CCV1	1	10:52																										*
CCB1	1	10:58																										*
CRDL1	1	11:01																										*
ICS-A1	1	11:04																										*
ICS-AB1	1	11:07																										*
ZZZZZZ	1	11:10																										
CCV2	1	11:13																										
CCV2	1	11:16																										*
CCB2	1	11:19																										*
ZZZZZZ	1	11:22																										
ZZZZZZ	1	11:26																										
ZZZZZZ	1	11:28																										
ZZZZZZ	1	11:32																										
ZZZZZZ	1	11:35																										
ZZZZZZ	1	11:45																										
ZZZZZZ	1	11:48																										
ZZZZZZ	1	11:51																										
CCV3	1	11:54								X				X		X				X			X					
CCV3	1	11:57																										*
CCB3	1	12:00																										*
K0911120-MB	1	12:35																										*
LCSW	1	12:38																										*
K0911120-023	1	12:41																										*

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Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P

Start Date: 12/8/2009 **End Date:** 12/8/2009

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	
K0911120-023L	5	12:44																										*
K0911120-024	1	12:48																										*
K0911120-024D	1	12:51																										*
K0911120-024S	1	12:54																										*
ZZZZZZ	1	12:57																										
ZZZZZZ	1	13:00																										
ZZZZZZ	1	13:03																										
CCV4	1	13:06								X				X		X				X			X					
CCV4	1	13:09																										*
CCB4	1	13:12																										*

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 Method: P
Start Date: 12/7/2009 End Date: 12/7/2009

Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U										
Blank	1.00	08:47																									
STDB	1.00	08:50																									
STDA	1.00	08:54																									
ICV1	1.00	08:57														X											
ICV1	1.00	09:00																									
ICV1	1.00	09:03																									
ICB1	1.00	09:06																									
CCV1	1.00	09:17																									
CCV1	1.00	09:25														X											
CCB1	1.00	09:32																									
CRDL1	1.00	09:35																									
ICS-A1	1.00	09:38																									
ICS-AB1	1.00	09:41																									
ZZZZZZ	1.00	09:45																									
CCV2	1.00	09:48																									
CCV2	1.00	09:51														X											
CCB2	1.00	09:54																									
K0911120-MB	1.00	09:57																									
LCSW1	1.00	10:00																									
LCSW2	1.00	10:03																									
K0911120-023	1.00	10:06																									
K0911120-023L	5.00	10:09																									
K0911120-024	1.00	10:12																									
ZZZZZZ	1.00	10:15																									
ZZZZZZ	1.00	10:18																									
ZZZZZZ	1.00	10:21																									
ZZZZZZ	1.00	10:24																									
CCV3	1.00	10:27																									
CCV3	1.00	10:30														X											
CCB3	1.00	10:33																									

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 Method: P
Start Date: 12/8/2009 End Date: 12/8/2009

Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U										
Blank	1.00	10:21														X											
STDB	1.00	10:24																									
STDA	1.00	10:27														X											
ICV1	1.00	10:30														X											
ZZZZZZ	1.00	10:33																									
ZZZZZZ	1.00	10:36																									
ZZZZZZ	1.00	10:39																									
ICB1	1.00	10:43														X											
CCV1	1.00	10:47																									
CCV1	1.00	10:52														X											
CCB1	1.00	10:58														X											
CRDL1	1.00	11:01														X											
ICS-A1	1.00	11:04														X											
ICS-AB1	1.00	11:07														X											
ZZZZZZ	1.00	11:10																									
CCV2	1.00	11:13																									
CCV2	1.00	11:16														X											
CCB2	1.00	11:19														X											
ZZZZZZ	1.00	11:22																									
ZZZZZZ	1.00	11:26																									
ZZZZZZ	1.00	11:28																									
ZZZZZZ	1.00	11:32																									
ZZZZZZ	1.00	11:35																									
ZZZZZZ	1.00	11:45																									
ZZZZZZ	1.00	11:48																									
ZZZZZZ	1.00	11:51																									
CCV3	1.00	11:54																									
CCV3	1.00	11:57														X											
CCB3	1.00	12:00														X											
K0911120-MB	1.00	12:35														X											
LCSW	1.00	12:38														X											
K0911120-023	1.00	12:41														X											
K0911120-023L	5.00	12:44														X											
K0911120-024	1.00	12:48														X											

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 Method: P
Start Date: 12/8/2009 End Date: 12/8/2009

Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U										
K0911120-024D	1.00	12:51														X											
K0911120-024S	1.00	12:54														X											
ZZZZZZ	1.00	12:57																									
ZZZZZZ	1.00	13:00																									
ZZZZZZ	1.00	13:03																									
CCV4	1.00	13:06																									
CCV4	1.00	13:09														X											
CCB4	1.00	13:12														X											

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/11/2009 **End Date:** 12/11/2009

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	16:15		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
Cal. Stn	1	16:20		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ICV1	1	16:35		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCV1	1	16:39		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ICB1	1	17:02		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCB1	1	17:07		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CRA	1	17:11		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ICS-A1	1	17:16		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ICS-AB1	1	17:25		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ZZZZZZ	1	17:34																									
ZZZZZZ	1	17:39																									
ZZZZZZ	1	17:49																									
ZZZZZZ	1	17:54																									
ZZZZZZ	1	18:00																									
ZZZZZZ	1	18:09																									
ZZZZZZ	5	18:14																									
CCV2	1	18:19		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCB2	1	18:38		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ZZZZZZ	1	18:43																									
ZZZZZZ	1	18:52																									
ZZZZZZ	1	18:57																									
ZZZZZZ	1	19:02																									
ZZZZZZ	1	19:07																									
ZZZZZZ	1	19:12																									
ZZZZZZ	1	19:17																									
ZZZZZZ	1	19:21																									
ZZZZZZ	1	19:27																									
ZZZZZZ	1	19:31																									
CCV3	1	19:40		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCB3	1	19:59		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ZZZZZZ	1	20:03																									
ZZZZZZ	1	20:08																									

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Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/11/2009 **End Date:** 12/11/2009

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	20:13																									
ZZZZZZ	1	20:18																									
ZZZZZZ	1	20:27																									
K0911120-MB	1	20:36			X	X	X		X		X	X	X		X		X		X			X		X	X	X	
LCSW	1	20:41		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
K0911120-023	1	20:50		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
K0911120-023L	1	20:54		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
K0911120-023A	1	20:59		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCV4	1	21:08		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCB4	1	21:27		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
K0911120-024	1	21:32		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
K0911120-024D	1	21:36		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
K0911120-024S	1	21:41		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
ZZZZZZ	1	21:50																									
ZZZZZZ	1	21:54																									
ZZZZZZ	1	22:03																									
ZZZZZZ	1	22:08																									
ZZZZZZ	1	22:13																									
ZZZZZZ	1	22:18																									
ZZZZZZ	1	22:27																									
CCV5	1	22:45		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	
CCB5	1	23:04		X	X	X	X		X		X	X	X		X		X		X			X		X	X	X	

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Columbia Analytical Services

Metals
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ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/12/2009 **End Date:** 12/13/2009

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	17:41		X																							
Cal. Stn	1	17:45		X																							
ICV2	1	17:54		X																							
CCV1	1	17:59		X																							
ICB2	1	18:09		X																							
CCB1	1	18:13		X																							
CRA2	1	18:17		X																							
ICS-A1	1	18:22		X																							
ICS-AB1	1	18:27		X																							
ZZZZZZ	1	18:44																									
ZZZZZZ	1	18:53																									
ZZZZZZ	1	18:59																									
ZZZZZZ	1	19:04																									
ZZZZZZ	1	19:09																									
ZZZZZZ	1	19:14																									
ZZZZZZ	1	19:19																									
CCV2	1	19:24		X																							
CCB2	1	19:34		X																							
ZZZZZZ	1	19:39																									
ZZZZZZ	1	19:44																									
ZZZZZZ	1	19:48																									
ZZZZZZ	1	19:53																									
ZZZZZZ	1	19:58																									
ZZZZZZ	1	20:02																									
ZZZZZZ	1	20:07																									
ZZZZZZ	1	20:12																									
ZZZZZZ	1	20:17																									
ZZZZZZ	1	20:21																									
CCV3	1	20:26		X																							
CCB3	1	20:35		X																							
ZZZZZZ	1	20:41																									
ZZZZZZ	1	20:45																									

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/12/2009 **End Date:** 12/13/2009

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	20:50																									
ZZZZZZ	1	20:55																									
ZZZZZZ	1	21:00																									
ZZZZZZ	1	21:04																									
ZZZZZZ	1	21:09																									
ZZZZZZ	1	21:15																									
ZZZZZZ	1	21:19																									
ZZZZZZ	1	21:24																									
CCV4	1	21:29		X																							
CCB4	1	21:38		X																							
ZZZZZZ	1	21:43																									
ZZZZZZ	1	21:48																									
ZZZZZZ	1	21:54																									
ZZZZZZ	1	21:59																									
ZZZZZZ	1	22:03																									
ZZZZZZ	1	22:08																									
ZZZZZZ	1	22:13																									
ZZZZZZ	1	22:18																									
ZZZZZZ	1	22:22																									
ZZZZZZ	1	22:28																									
CCV5	1	22:33		X																							
CCB5	1	22:42		X																							
ZZZZZZ	1	22:47																									
ZZZZZZ	1	22:51																									
ZZZZZZ	1	22:56																									
ZZZZZZ	1	23:02																									
ZZZZZZ	1	23:08																									
ZZZZZZ	1	23:13																									
ZZZZZZ	1	23:18																									
ZZZZZZ	1	23:22																									
ZZZZZZ	1	23:27																									
ZZZZZZ	1	23:32																									

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/12/2009 **End Date:** 12/13/2009

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
CCV6	1	23:37		X																							
CCB6	1	23:51		X																							
ZZZZZZ	1	23:56																									
ZZZZZZ	1	00:01																									
ZZZZZZ	1	00:05																									
ZZZZZZ	1	00:10																									
ZZZZZZ	1	00:15																									
ZZZZZZ	1	00:19																									
ZZZZZZ	1	00:24																									
ZZZZZZ	1	00:29																									
ZZZZZZ	1	00:34																									
ZZZZZZ	1	00:38																									
CCV7	1	00:43		X																							
CCB7	1	00:57		X																							
ZZZZZZ	1	01:02																									
ZZZZZZ	1	01:07																									
ZZZZZZ	1	01:12																									
ZZZZZZ	1	01:17																									
ZZZZZZ	1	01:22																									
ZZZZZZ	1	01:26																									
ZZZZZZ	1	01:31																									
ZZZZZZ	1	01:37																									
ZZZZZZ	1	01:41																									
ZZZZZZ	1	01:46																									
CCV8	1	01:51		X																							
CCB8	1	02:13		X																							
ZZZZZZ	1	02:18																									
ZZZZZZ	1	02:23																									
ZZZZZZ	1	02:29																									
ZZZZZZ	1	02:34																									
ZZZZZZ	1	02:39																									
ZZZZZZ	1	02:44																									

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

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/12/2009 **End Date:** 12/13/2009

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	02:49																									
ZZZZZZ	1	02:53																									
ZZZZZZ	1	02:59																									
ZZZZZZ	1	03:04																									
CCV9	1	03:09		X																							
CCB9	1	03:23		X																							
ZZZZZZ	1	03:28																									
ZZZZZZ	1	03:32																									
ZZZZZZ	1	03:37																									
ZZZZZZ	1	03:42																									
ZZZZZZ	1	03:47																									
ZZZZZZ	1	03:52																									
ZZZZZZ	1	03:56																									
ZZZZZZ	1	04:02																									
ZZZZZZ	1	04:07																									
ZZZZZZ	1	04:11																									
CCV10	1	04:16		X																							
CCB10	1	04:30		X																							
ZZZZZZ	1	04:35																									
ZZZZZZ	1	04:41																									
ZZZZZZ	1	04:45																									
ZZZZZZ	1	04:50																									
ZZZZZZ	1	04:55																									
ZZZZZZ	1	05:00																									
ZZZZZZ	1	05:05																									
ZZZZZZ	1	05:10																									
ZZZZZZ	1	05:15																									
ZZZZZZ	1	05:19																									
CCV11	1	05:24		X																							
CCB11	1	05:33		X																							
ZZZZZZ	1	05:38																									
ZZZZZZ	1	05:43																									

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/12/2009 **End Date:** 12/13/2009

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	05:48																									
ZZZZZZ	1	05:53																									
ZZZZZZ	1	05:57																									
ZZZZZZ	1	06:02																									
ZZZZZZ	1	06:07																									
ZZZZZZ	1	06:12																									
ZZZZZZ	1	06:17																									
ZZZZZZ	1	06:22																									
CCV12	1	06:36		X																							
CCB12	1	06:44		X																							
ZZZZZZ	1	06:49																									
ZZZZZZ	1	06:54																									
ZZZZZZ	1	06:59																									
K0911120-MB	1	07:04		X																							
CCV13	1	07:09		X																							
CCB13	1	07:18		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: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-MS-03 **Method:** MS

Start Date: 12/14/2009 **End Date:** 12/14/2009

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	12:40						X																			
Cal. Stn	1	12:43						X																			
ICV1	1	12:45						X																			
CCV1	1	12:48						X																			
ICB1	1	12:50						X																			
CCB1	1	12:52						X																			
CRA	1	12:55						X																			
ICS-A1	1	12:57						X																			
ICS-AB1	1	13:00						X																			
K0911120-MB	1	13:02						X																			
LCSW	1	13:04						X																			
K0911120-023	1	13:07						X																			
K0911120-023L	1	13:09						X																			
K0911120-023A	1	13:11						X																			
K0911120-024	1	13:14						X																			
K0911120-024D	1	13:16						X																			
CCV2	1	13:19						X																			
CCB2	1	13:21						X																			
K0911120-024S	1	13:23						X																			
ZZZZZZ	1	13:26																									
ZZZZZZ	1	13:28																									
ZZZZZZ	1	13:30																									
ZZZZZZ	1	13:33																									
ZZZZZZ	1	13:35																									
ZZZZZZ	1	13:38																									
ZZZZZZ	1	13:40																									
ZZZZZZ	1	13:42																									
ZZZZZZ	1	13:45																									
CCV3	1	13:47						X																			
CCB3	1	13:50						X																			

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

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120, K0910931
Star Lims Run No.: 101852
Method : EPA 3010
Analysis for : ICP ICP-MS GFAA Flame AA Other

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
Blank			X	50	50	~~Wet~~ 6% HNO_3, 5% HCl
LCS						
K0911120-23						
-24						
-24D						
-24S						
K0910931-1						
-1D						
-1S						
-2						
-3						
-4						
-5						
-6						
-7						

EJ ~~12/1/09~~ EJ 12/1/09

Balance I.D.: _____ **Date Balance Checked** _____
Lot # Acids Used: HNO3 H14024 **HCl** 200928001 **H_2O_2** _____ **HF** _____
Hot Block Temp: 81°C / 79°C
LCSS (circle appropriate) ERA CLP Soil Lot # D045540 Other: _____

GFAA LCSW = GFLCSW, MET1-80-J, 0.2 mL Time Digestion Started: 12:00
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mL Initial Reflux Time: 330 min.
QCP CICV-2, MET1-77-M, _____ mL Secondary Reflux Time: 30 min.
QCP CICV-3, MET1-77-L, _____ mL HCL Reflux Time (if needed): _____ min.
SS6, MET1-80-K, _____ mL

SPIKE INFO
SS1-MET1-79-M, _____ mls added SS4-MET1-76-B 0.2 mls added SS7-MET1-78-H _____ mls added
SS5-MET1-79-Q, _____ mls added 200.8 1000ppb Stock (MS12-90-A) _____ mls added
SS6-MET1-80-K, _____ mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: _____
Comments: _____

Analyst [signature] **Date** 12/1/09
Reviewer _____ **Date** _____

metdig_3010.xls

METALS SPIKE FORM

Service Request # K0911120, 10910931
Q.C. Sample # 11120-24, 10931-1

Circle type of digest: GFAA ICP (FAA) ICP-MS Other:_____ Initials / Date: EJ / 12/1/09
Circle type of sample: Soil (Water) Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-		Expires: 05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-	0.2	Expires: 4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4		
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-		Expires: 05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-80-K	HNO3	25	500ml	-		Expires: 7/01/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-		Expires: 3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-80-J)	HNO3	10.0	1000ml	-	0.2	Expires: 07/01/10
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500		Expires: 10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500		Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500		Expires: 1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120 Redigest
Star Lims Run No.: 102090

not Ti

Method : CLP
3005A CLP Hot Block Other-

Analysis for : ICP ICP-MS GFAA
Flame AA Other

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
Blank			X	50	50	1% HNO_3, 5% HCl
LCS						
LCSD						
K0911120-23						
⊥ -24						

EJ 12/4/09

Time Digestion Started: 1:00 **Balance I.D.:** _____ **Date Balance Checked** _____
Lot # Acids Used: HNO3 ~~H12026~~ H14024 **HCl** 200928001 **H_2O_2** _____ **HF** _____
Hot Block Temp: 95°C EJ 12/4/09
LCSS (circle appropriate) ERA CLP Soil Lot # D045540 Other: _____

GFAA LCSW = GFLCSW, MET1-80-J, _____ mls. added
ICP LCSW = QCP-CICV-1, MET1-79-E, 0.25 mls. added
QCP CICV-2, MET1-77-M, 0.25 mls. added
QCP CICV-3, MET1-80-O, 0.25 mls. added
SS6, MET1-80-K, 0.5 mls. Added

TCLP Spike/LCSE
TSS1 MET1-74-K _____ mls. added

SPIKE INFO EJ 12/4/09
SS1-MET1-79-M, ~~0.5~~ mls added SS4-MET1-76-B _____ mls added SS7-MET1-78-H ~~0~~ mls added EJ 12/3/09
SS5-MET1-79-Q, 0.5 mls added 200.8 1000ppb Stock (MS13-20-A) _____ mls added
SS6-MET1-80-K, 0.5 mls added Ag 1000ppb Stock (MS13-38-C) _____ mls added
Additional spikes: _____
Comments: _____
sample aliquoted 12/3/09

Analyst [signature] **Date** 12/4/09
Reviewer _____ **Date** 12/4/09

metdig.xls

METALS SPIKE FORM

Service Request # K0911120, K0910931
Q.C. Sample # 11120-24, 10931-1

Circle type of digest: GFAA (ICP) FAA ICP-MS Other:_____ Initials / Date: EJ / 12/1/09
Circle type of sample: Soil (Water) Misc. Sludge Oil Other:_____

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added	
SS1-MET1-79-M	HNO3	50.0	1000ml	-	0.5/0.25	Expires: 05/01/2010
	Al	100*	1000ml	200		
	Ag	100*	1000ml	5		
	Ba	100*	1000ml	200		
	Be	100*	1000ml	5		
	Cd	100*	1000ml	5		
	Co	100*	1000ml	50		
	Cr	100*	1000ml	20		
	Cu	100*	1000ml	25		
	Fe	100*	1000ml	100		
	Pb	100*	1000ml	50		
	Mn	100*	1000ml	50		
	Ni	100*	1000ml	50		
	Sb	50	1000ml	50		
	V	100*	1000ml	50		
	Zn	100*	1000ml	50		
SS4-MET1-76-B	HNO3	25.0	500ml	-		Expires: 4/2010
	As	2.0	500ml	4		
	Cd	2.0	500ml	4		
	Pb	2.0	500ml	4		
	Se	2.0	500ml	4		
	Tl	2.0	500ml	4		
	Cu	2.0	500ml	4		
SS5-MET1-79-Q	HNO3	25.0	500ml	-	0.5/0.25	Expires: 05/2010
	As	50.0	500ml	100		
	Se	50.0	500ml	100		
	Tl	50.0	500ml	100		
SS6-MET1-80-K	HNO3	25	500ml	-	0.5/0.25	Expires: 7/01/2010
	B	50	500ml	100		
	Mo	50	500ml	100		
SS7-MET1-78-H	HNO3	10.0	200ml	-	0.5/0.25	Expires: 3/29/10
	K**	20	200ml	1000		
	Na**	20	200ml	1000		
	Mg**	20	200ml	1000		
	Ca**	20	200ml	1000		
GFLCSW (MET1-80-J)	HNO3	10.0	1000ml	-		Expires: 07/01/10
	As, Pb, Se, Tl	5.0	1000ml	2.5		
	Cd	-	-	1.25		
	Cu	2.5	1000ml	2.5		
QCP-CICV-1 (MET1-79-E)	Ca, Mg, Na, K	no dilution	-	2500	0.25	Expires: 10/01/10
	Al, Ba	no dilution	-	1000		
	Fe	no dilution	-	500		
	Co, Mn, Ni, V, Zn	no dilution	-	250		
	Cu, Ag	no dilution	-	125		
	Cr	no dilution	-	100		
	Be	no dilution	-	25		
QCP-CICV-2 (MET1-77-M)	Sb	no dilution	-	500	0.25	Expires: 7/1/10
QCP-CICV-3 (MET1-77-L)	As, Pb, Se, Tl	no dilution	-	500	0.25	Expires: 1/1/10
	Cd	no dilution	-	250		

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Columbia Analytical Services
Metals Digestion Sheet

Service Request Number(s) : K0911120 K0910931
Star Lims Run No.: 101860

Method : CLP
3005A CLP Hot Block Other- _____

Analysis for : ICP ICP-MS GFAA
Flame AA Other _____

Sample	Initial Weight (g)	Dry	Wet	Initial Volume(ml)	Final Volume (ml)	Matrix
Blank			X	50	50	1% HNO_3
LCS						
K0911120-23						
-24				25	25	2% HNO_3
-24D						
-24S						
K0910931-1				50	50	1% HNO_3
-1D						
-1S						
-2						
-3						
-4						
-5						
-6						
-7						
		EG	EG 12/1/09			

Time Digestion Started: 7:00 **Balance I.D.:**_____ **Date Balance Checked**_____
Lot # Acids Used: HNO3 MS13-27-I **HCl**_____ **H_2O_2**_____ **HF**_____
Hot Block Temp: 96°C
LCSS (circle appropriate) ERA CLP Soil Lot # D045540 Other:_____

GFAA LCSW = GFLCSW, MET1-80-J, _____ mls. added
ICP LCSW = QCP-CICV-1, MET1-79-E, _____ mls. added
QCP CICV-2, MET1-77-M, _____ mls. added
QCP CICV-3, MET1-77-L, _____mls. added
SS6, MET1-80-K, _____mls. Added

TCLP Spike/LCSE
TSS1 MET1-74-K_____mls. added

SPIKE INFO
SS1-MET1-79-M,_____mls added SS4-MET1-76-B_____mls added SS7-MET1-78-H _____mls added
SS5-MET1-79-Q,_____mls added 200.8 1000ppb Stock (MS13-20-A) 1.0/0.5 mls added
SS6-MET1-80-K, _____mls added Ag 1000ppb Stock (MS13-38-C) 1.0/0.5 mls added
Additional spikes: Alt 200.8, 0.1/0.05 mL, MS13-2A, exp 3/10
Comments:

Analyst Elizabeth Johnstonbaugh **Date** 12/1/09
Reviewer _____ **Date** 12/2/09

metdig.xls

Element Analyzed Se Hydride Instrument K-FLAA-2
Service Request # K0911120, K0910931, K0911092
Brian Sheldon's IPBs

Batch QC SR's # K0911120, K0910931, K0910431

Calibration Std. AA1-12-F Expiration Date 4/30/10
2nd Source Std. AA1-12-G Expiration Date 5/1/10
Starlims # 183015
Run # 121409-Se

Hydride Data Review Form

		Yes	No	NA
1	ICV within 10% of true Value	X		
2.	Calibration data included	X		
3.	CCV's in control	X		
4.	CCB's and/or ICB's below MRL	X		
5.	All reported Results within Cal. Range	X		
6.	All Calculations are Correct	X		

Comments

Primary Reviewed by BJJ Date 12/14/09

Secondary Reviewed by JDS Date 12/14/09

COLUMBIA ANALYTICAL SERVICES, INC.
FAA Run Log

Method: (Circle Method Used) (7742) 7062 Other:_____ Element: As (Se)	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
ICV	-	7.609	101%	
ICB	-	0.098		
~~CRA~~	-	~~1.367~~		Bad Burn Rerun
~~CRA~~	-	~~0.454~~		Bad Burn Rerun
CRA	-	0.521	104%	
CCV	-	7.539	101%	
CCB	-	0.082		
K0911120-BLK	1/2	0.057		
LCSWK0911120/IPR-1	1/2	4.898	98%	
K0911120-23	1/2	0.005		
K0911120-024	1/2	0.031		
K0911120-024D	1/2	0.037		
K0911120-024S	1/2	7.806	98%	
K0910931-001	1/2	0.160		
K0910931-001A	1/2	4.628	89%	
K0910931-001D	1/2	0.121		
K0910931-001S	1/2	7.457	91%	
CCV	-	7.639	102%	
CCB	-	0.081		
K0910931-002	1/2	0.086		
K0910931-003	1/2	0.248		
K0910931-004	1/2	0.122		
K0910931-005	1/2	0.229		
K0910931-006	1/2	0.090		
K0910931-007	1/2	0.088		
K0911092-BLK	1/2	0.026		
LCSWK0911092/IPR-2	1/2	4.328	87%	
K0911092-001	1/2	0.061		
K0911092-001A	1/2	4.506	89%	
CCV	-	7.473	100%	

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	10ppb (80-120%)	16ppb (75-125%)	146.0mg/kg (80-120%)	20ppb (75-125%)
Selenium	10ppb (72-125%)	16ppb (66-128%)	192.0mg/kg (62-147%)	20ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
[illegible]	12/14/09	

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COLUMBIA ANALYTICAL SERVICES, INC.
GFAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
CCB	-	0.139		
K0911092-001D	1/2	0.063		
K0911092-001S	1/2	6.739	83%	
~~K0911092-002~~	~~1/2~~	~~0.632~~		Rerun
K0911092-003	1/2	0.030		
K0911092-004	1/2	0.047		
K0911092-005	1/2	0.041		
K0911092-006	1/2	0.044		
K0911092-007	1/2	0.049		
K0911092-008	1/2	0.022		
K0911092-009	1/2	0.025		
CCV	-	7.540	101%	
CCB	-	0.070		
IPR-3/LCSWK0911092	1/2	4.486	90%	
~~IPR-4~~	~~1/2~~	~~4.029~~		Rerun
CCV	-	7.770	104%	
CCB	-	0.096		
K0911092-002	1/2	0.065		
IPR-4/LCSWK0910431	1/2	4.810	96%	
CCV	-	7.695	103%	
CCB	-	0.089		

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	8ppb (80-120%)	8ppb (75-125%)	146.0mg/kg (80-120%)	10ppb (75-125%)
Selenium	8ppb (72-125%)	8ppb (66-128%)	73.0mg/kg (62-147%)	10ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
Brian Stebler	12/14/09	

R:\ICP\WIP\DATA\K-FLAA-02\Hydride Tissue Template

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Analysis Begun

Logged In Analyst: ACQMET10 **Technique: AA FIAS-Flame**
Spectrometer Model: AAnalyst 200, S/N 200S5061701 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\ACQMET10\Sample Information\121409-Se.sif
Batch ID: 092508-Se
Results Data Set: 121409-Se
Results Library: C:\DATA-AA\ACQMET10\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Cal Blk **Date Collected: 12/14/2009 10:52:42 AM**
Analyst: **Data Type: Original**

Replicate Data: Cal Blk

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.00]	0.001	-0.005	0.001			10:52:58	Yes
2		[0.00]	0.001	-0.001	0.001			10:53:34	Yes
3		[0.00]	0.002	0.007	0.002			10:54:09	Yes
Mean:		[0.00]	0.001						
SD:		0.00	0.0005						
%RSD:		0.00	37.90						

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: Std 0.5 **Date Collected: 12/14/2009 10:55:02 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.5]	0.010	0.018	0.011			10:55:18	Yes
2		[0.5]	0.012	0.056	0.013			10:55:54	Yes
3		[0.5]	0.012	0.055	0.013			10:56:30	Yes
Mean:		[0.5]	0.011						
SD:		0.0	0.0011						
%RSD:		0.0	9.67						

Standard number 1 applied. [0.5]
Correlation Coef.: 1.000000 Slope: 0.02253 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: Std 1.0 **Date Collected: 12/14/2009 10:57:23 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[1.0]	0.023	0.099	0.024			10:57:40	Yes
2		[1.0]	0.023	0.100	0.024			10:58:16	Yes
3		[1.0]	0.023	0.095	0.024			10:58:52	Yes
Mean:		[1.0]	0.023						
SD:		0.0	0.0001						
%RSD:		0.0	0.35						

Standard number 2 applied. [1.0]
Correlation Coef.: 0.999952 Slope: 0.02267 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**

Sample ID: Std 5.0 **Date Collected: 12/14/2009 10:59:45 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[5.0]	0.111	0.470	0.112			11:00:03	Yes
2		[5.0]	0.114	0.469	0.115			11:00:39	Yes
3		[5.0]	0.114	0.474	0.115			11:01:14	Yes
Mean:		[5.0]	0.113						
SD:		0.0	0.0015						
%RSD:		0.0	1.35						

Standard number 3 applied. [5.0]
Correlation Coef.: 0.999999 Slope: 0.02259 Intercept: 0.00000

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Std 7.5 **Date Collected: 12/14/2009 11:02:08 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 7.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[7.5]	0.166	0.703	0.168			11:02:26	Yes
2		[7.5]	0.171	0.706	0.172			11:03:02	Yes
3		[7.5]	0.170	0.706	0.172			11:03:38	Yes
Mean:		[7.5]	0.169						
SD:		0.0	0.0024						
%RSD:		0.0	1.41						

Standard number 4 applied. [7.5]
Correlation Coef.: 0.999999 Slope: 0.02257 Intercept: 0.00000

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: Std 10.0 **Date Collected: 12/14/2009 11:04:33 AM**
Analyst: **Data Type: Original**

Replicate Data: Std 10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[10.0]	0.221	0.909	0.222			11:04:52	Yes
2		[10.0]	0.221	0.927	0.223			11:05:28	Yes
3		[10.0]	0.224	0.926	0.225			11:06:03	Yes
Mean:		[10.0]	0.222						
SD:		0.0	0.0016						
%RSD:		0.0	0.71						

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999905 Slope: 0.02237 Intercept: 0.00000

Calibration data for Se 196.03 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Cal Blk	0.0000	0	0.000	0.00	37.9
Std 0.5	0.0113	0.5	0.504	0.00	9.7
Std 1.0	0.0227	1.0	1.015	0.00	0.4
Std 5.0	0.1129	5.0	5.049	0.00	1.3
Std 7.5	0.1692	7.5	7.566	0.00	1.4
Std 10.0	0.2220	10.0	9.923	0.00	0.7

Correlation Coef.: 0.999905 Slope: 0.02237 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 12/14/2009 11:06:59 AM**
Analyst: **Data Type: Original**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.629	7.629	0.171	0.710	0.172			11:07:18	Yes
2	7.642	7.642	0.171	0.708	0.172			11:07:53	Yes
3	7.554	7.554	0.169	0.705	0.170			11:08:29	Yes
Mean:	7.609	7.609	0.170						
SD:	0.048	0.048	0.0011						
%RSD:	0.625	0.625	0.63						

QC value within limits for Se 196.03 Recovery = 101.45%
All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 12/14/2009 11:09:25 AM**
Analyst: **Data Type: Original**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.140	0.140	0.003	0.021	0.004			11:09:41	Yes
2	0.103	0.103	0.002	0.021	0.004			11:10:17	Yes
3	0.050	0.050	0.001	0.004	0.002			11:10:53	Yes
Mean:	0.098	0.098	0.002						
SD:	0.045	0.045	0.0010						
%RSD:	46.31	46.31	46.31						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 9 **Autosampler Location: 2**
Sample ID: CRA **Date Collected: 12/14/2009 11:11:45 AM**
Analyst: **Data Type: Original**

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.504	0.504	0.011	0.049	0.013			11:12:02	Yes
2	0.503	0.503	0.011	0.047	0.013			11:12:37	Yes
3	3.093	3.093	0.069	0.447	0.070			11:13:13	Yes
Mean:	1.367	1.367	0.031						
SD:	1.495	1.495	0.0334						
%RSD:	109.4	109.4	109.41						

QC value greater than the upper limit for Se 196.03 Recovery = 273.33%
QC Failed. Continue with analysis.

==========

Sequence No.: 10 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/14/2009 11:14:06 AM**
Analyst: **Data Type: Original**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: ACQMET10 **Technique: AA FIAS-Flame**
Spectrometer Model: AAnalyst 200, S/N 200S5061701 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\ACQMET10\Sample Information\121409-Se.sif
Batch ID: 092508-Se

Results Data Set: 121409-Se
Results Library: C:\DATA-AA\ACQMET10\Results\Results.mdb

==========

Sequence No.: 9 **Autosampler Location: 2**
Sample ID: CRA **Date Collected: 12/14/2009 11:14:33 AM**
Analyst: **Data Type: Original**

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.260	0.260	0.006	-0.058	0.007			11:14:50	Yes
2	0.551	0.551	0.012	0.054	0.014			11:15:26	Yes
3	0.549	0.549	0.012	0.060	0.014			11:16:02	Yes
Mean:	0.454	0.454	0.010						
SD:	0.167	0.167	0.0037						
%RSD:	36.93	36.93	36.93						

QC value within limits for Se 196.03 Recovery = 90.71%
All analyte(s) passed QC.
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: ACQMET10 **Technique: AA FIAS-Flame**
Spectrometer Model: AAnalyst 200, S/N 200S5061701 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\ACQMET10\Sample Information\121409-Se.sif
Batch ID: 092508-Se
Results Data Set: 121409-Se
Results Library: C:\DATA-AA\ACQMET10\Results\Results.mdb

==========

Sequence No.: 9 **Autosampler Location: 2**
Sample ID: CRA **Date Collected: 12/14/2009 11:17:00 AM**
Analyst: **Data Type: Original**

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.538	0.538	0.012	0.055	0.013			11:17:17	Yes
2	0.532	0.532	0.012	0.054	0.013			11:17:53	Yes
3	0.494	0.494	0.011	0.048	0.012			11:18:29	Yes
Mean:	0.521	0.521	0.012						
SD:	0.024	0.024	0.0005						
%RSD:	4.539	4.539	4.54						

QC value within limits for Se 196.03 Recovery = 104.22%
All analyte(s) passed QC.

==========

Sequence No.: 10 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/14/2009 11:19:22 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.373	7.373	0.165	0.698	0.166			11:19:40	Yes
2	7.557	7.557	0.169	0.718	0.170			11:20:16	Yes
3	7.688	7.688	0.172	0.709	0.173			11:20:52	Yes
Mean:	7.539	7.539	0.169						
SD:	0.158	0.158	0.0035						
%RSD:	2.096	2.096	2.10						

QC value within limits for Se 196.03 Recovery = 100.52%

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/14/2009 11:21:46 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.127	0.127	0.003	0.014	0.004			11:22:03	Yes
2	0.065	0.065	0.001	0.008	0.003			11:22:38	Yes
3	0.055	0.055	0.001	0.013	0.003			11:23:14	Yes
Mean:	0.082	0.082	0.002						
SD:	0.039	0.039	0.0009						
%RSD:	47.23	47.23	47.23						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 9**
Sample ID: K0911120-BLK **Date Collected: 12/14/2009 11:24:07 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-BLK

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.067	0.067	0.001	0.012	0.003			11:24:23	Yes
2	0.058	0.058	0.001	0.008	0.003			11:24:59	Yes
3	0.047	0.047	0.001	0.009	0.002			11:25:35	Yes
Mean:	0.057	0.057	0.001						
SD:	0.010	0.010	0.0002						
%RSD:	17.72	17.72	17.72						

Sequence No.: 13 **Autosampler Location: 10**
Sample ID: LCSWK0911120/IPR-1 **Date Collected: 12/14/2009 11:26:27 AM**
Analyst: **Data Type: Original**

Replicate Data: LCSWK0911120/IPR-1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.849	4.849	0.108	0.462	0.110			11:26:44	Yes
2	4.942	4.942	0.111	0.586	0.112			11:27:19	Yes
3	4.903	4.903	0.110	0.449	0.111			11:27:55	Yes
Mean:	4.898	4.898	0.110						
SD:	0.047	0.047	0.0011						
%RSD:	0.960	0.960	0.96						

Sequence No.: 14 **Autosampler Location: 11**
Sample ID: K0911120-23 **Date Collected: 12/14/2009 11:28:48 AM**
Analyst: **Data Type: Original**

Replicate Data: K0911120-23

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.055	0.055	0.001	-0.021	0.003			11:29:05	Yes
2	-0.032	-0.032	-0.001	-0.043	0.001			11:29:41	Yes
3	-0.007	-0.007	-0.000	-0.012	0.001			11:30:17	Yes
Mean:	0.005	0.005	0.000						
SD:	0.045	0.045	0.0010						
%RSD:	830.7	830.7	830.73						

Sequence No.: 15
Sample ID: K0911120-024
Analyst:
Autosampler Location: 12
Date Collected: 12/14/2009 11:31:11 AM
Data Type: Original

Replicate Data: K0911120-024

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.046	0.046	0.001	0.012	0.002			11:31:29	Yes
2	-0.001	-0.001	-0.000	0.000	0.001			11:32:05	Yes
3	0.049	0.049	0.001	0.012	0.002			11:32:41	Yes
Mean:	0.031	0.031	0.001						
SD:	0.028	0.028	0.0006						
%RSD:	88.12	88.12	88.12						

Sequence No.: 16
Sample ID: K0911120-024D
Analyst:
Autosampler Location: 13
Date Collected: 12/14/2009 11:33:35 AM
Data Type: Original

Replicate Data: K0911120-024D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.020	0.020	0.000	-0.003	0.002			11:33:53	Yes
2	0.039	0.039	0.001	0.004	0.002			11:34:28	Yes
3	0.052	0.052	0.001	0.006	0.002			11:35:04	Yes
Mean:	0.037	0.037	0.001						
SD:	0.016	0.016	0.0004						
%RSD:	42.77	42.77	42.77						

Sequence No.: 17
Sample ID: K0911120-024S
Analyst:
Autosampler Location: 14
Date Collected: 12/14/2009 11:35:59 AM
Data Type: Original

Replicate Data: K0911120-024S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.828	7.828	0.175	0.784	0.176			11:36:17	Yes
2	7.773	7.773	0.174	0.748	0.175			11:36:53	Yes
3	7.817	7.817	0.175	0.756	0.176			11:37:29	Yes
Mean:	7.806	7.806	0.175						
SD:	0.029	0.029	0.0006						
%RSD:	0.371	0.371	0.37						

Sequence No.: 18
Sample ID: K0910931-001
Analyst:
Autosampler Location: 15
Date Collected: 12/14/2009 11:38:24 AM
Data Type: Original

Replicate Data: K0910931-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.204	0.204	0.005	0.021	0.006			11:38:43	Yes
2	0.152	0.152	0.003	0.014	0.005			11:39:19	Yes
3	0.123	0.123	0.003	0.020	0.004			11:39:55	Yes
Mean:	0.160	0.160	0.004						
SD:	0.041	0.041	0.0009						
%RSD:	25.50	25.50	25.50						

Sequence No.: 19
Autosampler Location: 16

Sample ID: K0910931-001A
Analyst:
Date Collected: 12/14/2009 11:40:50 AM
Data Type: Original

Replicate Data: K0910931-001A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.453	4.453	0.100	0.436	0.101			11:41:10	Yes
2	4.540	4.540	0.102	0.476	0.103			11:41:45	Yes
3	4.892	4.892	0.109	0.465	0.111			11:42:21	Yes
Mean:	4.628	4.628	0.104						
SD:	0.233	0.233	0.0052						
%RSD:	5.023	5.023	5.02						

Sequence No.: 20
Autosampler Location: 17
Sample ID: K0910931-001D
Date Collected: 12/14/2009 11:43:17 AM
Analyst:
Data Type: Original

Replicate Data: K0910931-001D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.157	0.157	0.004	0.018	0.005			11:43:32	Yes
2	0.102	0.102	0.002	0.009	0.004			11:44:08	Yes
3	0.105	0.105	0.002	0.015	0.004			11:44:44	Yes
Mean:	0.121	0.121	0.003						
SD:	0.031	0.031	0.0007						
%RSD:	25.25	25.25	25.25						

Sequence No.: 21
Autosampler Location: 18
Sample ID: K0910931-001S
Date Collected: 12/14/2009 11:45:36 AM
Analyst:
Data Type: Original

Replicate Data: K0910931-001S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.309	7.309	0.163	0.710	0.165			11:45:52	Yes
2	7.469	7.469	0.167	0.731	0.168			11:46:28	Yes
3	7.593	7.593	0.170	0.739	0.171			11:47:04	Yes
Mean:	7.457	7.457	0.167						
SD:	0.142	0.142	0.0032						
%RSD:	1.908	1.908	1.91						

Sequence No.: 22
Autosampler Location: 5
Sample ID: CCV
Date Collected: 12/14/2009 11:47:56 AM
Analyst:
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.567	7.567	0.169	0.715	0.171			11:48:14	Yes
2	7.629	7.629	0.171	0.721	0.172			11:48:50	Yes
3	7.721	7.721	0.173	0.719	0.174			11:49:26	Yes
Mean:	7.639	7.639	0.171						
SD:	0.078	0.078	0.0017						
%RSD:	1.017	1.017	1.02						

QC value within limits for Se 196.03 Recovery = 101.85%
All analyte(s) passed QC.

Sequence No.: 23
Autosampler Location: 1
Sample ID: CCB
Date Collected: 12/14/2009 11:50:21 AM

Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.153	0.153	0.003	0.017	0.005			11:50:37	Yes
2	0.054	0.054	0.001	0.008	0.002			11:51:13	Yes
3	0.037	0.037	0.001	0.010	0.002			11:51:48	Yes
Mean:	0.081	0.081	0.002						
SD:	0.063	0.063	0.0014						
%RSD:	77.22	77.22	77.22						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24 Autosampler Location: 19
Sample ID: K0910931-002 Date Collected: 12/14/2009 11:52:41 AM
Analyst: Data Type: Original

Replicate Data: K0910931-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.025	0.025	0.001	-0.034	0.002			11:52:58	Yes
2	0.104	0.104	0.002	0.005	0.004			11:53:33	Yes
3	0.128	0.128	0.003	0.016	0.004			11:54:09	Yes
Mean:	0.086	0.086	0.002						
SD:	0.054	0.054	0.0012						
%RSD:	62.57	62.57	62.57						

Sequence No.: 25 Autosampler Location: 20
Sample ID: K0910931-003 Date Collected: 12/14/2009 11:55:02 AM
Analyst: Data Type: Original

Replicate Data: K0910931-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.408	0.408	0.009	0.048	0.010			11:55:18	Yes
2	0.180	0.180	0.004	0.017	0.005			11:55:54	Yes
3	0.155	0.155	0.003	0.016	0.005			11:56:30	Yes
Mean:	0.248	0.248	0.006						
SD:	0.140	0.140	0.0031						
%RSD:	56.47	56.47	56.47						

Sequence No.: 26 Autosampler Location: 21
Sample ID: K0910931-004 Date Collected: 12/14/2009 11:57:23 AM
Analyst: Data Type: Original

Replicate Data: K0910931-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.140	0.140	0.003	0.017	0.004			11:57:40	Yes
2	0.132	0.132	0.003	0.020	0.004			11:58:15	Yes
3	0.093	0.093	0.002	0.010	0.003			11:58:51	Yes
Mean:	0.122	0.122	0.003						
SD:	0.025	0.025	0.0006						
%RSD:	20.36	20.36	20.36						

Sequence No.: 27 Autosampler Location: 22
Sample ID: K0910931-005 Date Collected: 12/14/2009 11:59:45 AM
Analyst: Data Type: Original

Replicate Data: K0910931-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.130	0.130	0.003	0.015	0.004			12:00:02	Yes
2	0.125	0.125	0.003	0.015	0.004			12:00:38	Yes
3	0.433	0.433	0.010	0.029	0.011			12:01:14	Yes
Mean:	0.229	0.229	0.005						
SD:	0.177	0.177	0.0040						
%RSD:	76.98	76.98	76.98						

Sequence No.: 28 **Autosampler Location: 23**
Sample ID: K0910931-006 **Date Collected: 12/14/2009 12:02:07 PM**
Analyst: **Data Type: Original**

Replicate Data: K0910931-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.107	0.107	0.002	0.007	0.004			12:02:25	Yes
2	0.070	0.070	0.002	0.004	0.003			12:03:00	Yes
3	0.092	0.092	0.002	0.007	0.003			12:03:36	Yes
Mean:	0.090	0.090	0.002						
SD:	0.018	0.018	0.0004						
%RSD:	20.53	20.53	20.53						

Sequence No.: 29 **Autosampler Location: 24**
Sample ID: K0910931-007 **Date Collected: 12/14/2009 12:04:30 PM**
Analyst: **Data Type: Original**

Replicate Data: K0910931-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.075	0.075	0.002	-0.002	0.003			12:04:48	Yes
2	0.099	0.099	0.002	0.011	0.004			12:05:24	Yes
3	0.092	0.092	0.002	0.013	0.003			12:05:59	Yes
Mean:	0.088	0.088	0.002						
SD:	0.012	0.012	0.0003						
%RSD:	14.00	14.00	14.00						

Sequence No.: 30 **Autosampler Location: 25**
Sample ID: K0911092-BLK **Date Collected: 12/14/2009 12:06:54 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-BLK

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.022	0.022	0.000	0.007	0.002			12:07:11	Yes
2	0.032	0.032	0.001	0.006	0.002			12:07:47	Yes
3	0.023	0.023	0.001	0.001	0.002			12:08:23	Yes
Mean:	0.026	0.026	0.001						
SD:	0.006	0.006	0.0001						
%RSD:	21.59	21.59	21.59						

Sequence No.: 31 **Autosampler Location: 26**
Sample ID: LCSWK0911092/IPR-2 **Date Collected: 12/14/2009 12:09:17 PM**
Analyst: **Data Type: Original**

Replicate Data: LCSWK0911092/IPR-2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.149	4.149	0.093	0.392	0.094			12:09:35	Yes
2	4.374	4.374	0.098	0.400	0.099			12:10:11	Yes
3	4.460	4.460	0.100	0.407	0.101			12:10:47	Yes
Mean:	4.328	4.328	0.097						
SD:	0.161	0.161	0.0036						
%RSD:	3.715	3.715	3.71						

==========

Sequence No.: 32 **Autosampler Location: 27**
Sample ID: K0911092-001 **Date Collected: 12/14/2009 12:11:42 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.095	0.095	0.002	0.018	0.003			12:11:59	Yes
2	0.019	0.019	0.000	0.000	0.002			12:12:35	Yes
3	0.068	0.068	0.002	0.010	0.003			12:13:11	Yes
Mean:	0.061	0.061	0.001						
SD:	0.039	0.039	0.0009						
%RSD:	63.60	63.60	63.60						

==========

Sequence No.: 33 **Autosampler Location: 28**
Sample ID: K0911092-001A **Date Collected: 12/14/2009 12:14:06 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-001A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.444	4.444	0.099	0.427	0.101			12:14:24	Yes
2	4.563	4.563	0.102	0.432	0.103			12:15:00	Yes
3	4.510	4.510	0.101	0.432	0.102			12:15:35	Yes
Mean:	4.506	4.506	0.101						
SD:	0.060	0.060	0.0013						
%RSD:	1.325	1.325	1.33						

==========

Sequence No.: 34 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/14/2009 12:16:30 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.595	7.595	0.170	0.718	0.171			12:16:49	Yes
2	7.334	7.334	0.164	0.632	0.165			12:17:25	Yes
3	7.490	7.490	0.168	0.648	0.169			12:18:00	Yes
Mean:	7.473	7.473	0.167						
SD:	0.131	0.131	0.0029						
%RSD:	1.758	1.758	1.76						

QC value within limits for Se 196.03 Recovery = 99.64%
All analyte(s) passed QC.

==========

Sequence No.: 35 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/14/2009 12:18:55 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	ug/L	ug/L	Signal	Area	Height	Area	Height		Stored
1	0.091	0.091	0.002	-0.008	0.003			12:19:11	Yes
2	0.070	0.070	0.002	0.004	0.003			12:19:46	Yes
3	0.258	0.258	0.006	0.018	0.007			12:20:22	Yes
Mean:	0.139	0.139	0.003						
SD:	0.103	0.103	0.0023						
%RSD:	73.87	73.87	73.87						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 36 **Autosampler Location: 29**
Sample ID: K0911092-001D **Date Collected: 12/14/2009 12:21:15 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-001D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.074	0.074	0.002	0.009	0.003			12:21:33	Yes
2	0.060	0.060	0.001	0.006	0.003			12:22:09	Yes
3	0.055	0.055	0.001	0.008	0.003			12:22:45	Yes
Mean:	0.063	0.063	0.001						
SD:	0.010	0.010	0.0002						
%RSD:	16.21	16.21	16.21						

==========

Sequence No.: 37 **Autosampler Location: 30**
Sample ID: K0911092-001S **Date Collected: 12/14/2009 12:23:40 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-001S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.807	6.807	0.152	0.640	0.154			12:23:59	Yes
2	6.755	6.755	0.151	0.644	0.152			12:24:35	Yes
3	6.656	6.656	0.149	0.634	0.150			12:25:11	Yes
Mean:	6.739	6.739	0.151						
SD:	0.076	0.076	0.0017						
%RSD:	1.131	1.131	1.13						

==========

Sequence No.: 38 **Autosampler Location: 31**
Sample ID: K0911092-002 **Date Collected: 12/14/2009 12:26:06 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.092	0.092	0.002	0.017	0.003			12:26:25	Yes
2	1.998	1.998	0.045	0.681	0.046			12:27:01	Yes
3	-0.193	-0.193	-0.004	-0.151	-0.003			12:27:37	Yes
Mean:	0.632	0.632	0.014						
SD:	1.192	1.192	0.0267						
%RSD:	188.5	188.5	188.47						

==========

Sequence No.: 39 **Autosampler Location: 32**
Sample ID: K0911092-003 **Date Collected: 12/14/2009 12:28:32 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

1	-0.052	-0.052	-0.001	-0.029	0.000		12:28:48	Yes
2	0.058	0.058	0.001	0.009	0.003		12:29:24	Yes
3	0.084	0.084	0.002	0.014	0.003		12:29:59	Yes
Mean:	0.030	0.030	0.001					
SD:	0.072	0.072	0.0016					
%RSD:	242.3	242.3	242.25					

Sequence No.: 40 **Autosampler Location: 33**
Sample ID: K0911092-004 **Date Collected: 12/14/2009 12:30:51 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.060	0.060	0.001	0.009	0.003			12:31:06	Yes
2	0.055	0.055	0.001	0.011	0.003			12:31:42	Yes
3	0.024	0.024	0.001	0.002	0.002			12:32:18	Yes
Mean:	0.047	0.047	0.001						
SD:	0.020	0.020	0.0004						
%RSD:	42.30	42.30	42.30						

Sequence No.: 41 **Autosampler Location: 34**
Sample ID: K0911092-005 **Date Collected: 12/14/2009 12:33:10 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.053	0.053	0.001	0.009	0.002			12:33:26	Yes
2	0.025	0.025	0.001	0.004	0.002			12:34:02	Yes
3	0.046	0.046	0.001	0.008	0.002			12:34:38	Yes
Mean:	0.041	0.041	0.001						
SD:	0.015	0.015	0.0003						
%RSD:	35.60	35.60	35.60						

Sequence No.: 42 **Autosampler Location: 35**
Sample ID: K0911092-006 **Date Collected: 12/14/2009 12:35:30 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.053	0.053	0.001	0.010	0.002			12:35:47	Yes
2	0.035	0.035	0.001	0.007	0.002			12:36:23	Yes
3	0.044	0.044	0.001	0.012	0.002			12:36:59	Yes
Mean:	0.044	0.044	0.001						
SD:	0.009	0.009	0.0002						
%RSD:	19.96	19.96	19.96						

Sequence No.: 43 **Autosampler Location: 36**
Sample ID: K0911092-007 **Date Collected: 12/14/2009 12:37:51 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.044	0.044	0.001	0.006	0.002			12:38:08	Yes
2	0.051	0.051	0.001	0.007	0.002			12:38:43	Yes
3	0.052	0.052	0.001	0.010	0.002			12:39:19	Yes

Mean:	0.049	0.049	0.001
SD:	0.004	0.004	0.0001
%RSD:	8.490	8.490	8.49

Sequence No.: 44 **Autosampler Location: 37**
Sample ID: K0911092-008 **Date Collected: 12/14/2009 12:40:12 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-008

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.030	0.030	0.001	0.012	0.002			12:40:28	Yes
2	0.014	0.014	0.000	0.006	0.002			12:41:04	Yes
3	0.023	0.023	0.001	0.002	0.002			12:41:39	Yes
Mean:	0.022	0.022	0.001						
SD:	0.008	0.008	0.0002						
%RSD:	36.07	36.07	36.07						

Sequence No.: 45 **Autosampler Location: 38**
Sample ID: K0911092-009 **Date Collected: 12/14/2009 12:42:32 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-009

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.030	0.030	0.001	0.003	0.002			12:42:50	Yes
2	0.024	0.024	0.001	0.006	0.002			12:43:25	Yes
3	0.021	0.021	0.000	0.003	0.002			12:44:01	Yes
Mean:	0.025	0.025	0.001						
SD:	0.004	0.004	0.0001						
%RSD:	17.76	17.76	17.76						

Sequence No.: 46 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/14/2009 12:44:54 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.372	7.372	0.165	0.695	0.166			12:45:13	Yes
2	7.551	7.551	0.169	0.712	0.170			12:45:49	Yes
3	7.696	7.696	0.172	0.721	0.173			12:46:24	Yes
Mean:	7.540	7.540	0.169						
SD:	0.162	0.162	0.0036						
%RSD:	2.149	2.149	2.15						

QC value within limits for Se 196.03 Recovery = 100.53%
All analyte(s) passed QC.

Sequence No.: 47 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/14/2009 12:47:18 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.113	0.113	0.003	0.017	0.004			12:47:35	Yes
2	0.055	0.055	0.001	0.002	0.003			12:48:11	Yes
3	0.042	0.042	0.001	0.008	0.002			12:48:46	Yes
Mean:	0.070	0.070	0.002						

SD:	0.038	0.038	0.0008
%RSD:	53.95	53.95	53.95

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48 **Autosampler Location: 39**
Sample ID: IPR-3 **Date Collected: 12/14/2009 12:49:39 PM**
Analyst: **Data Type: Original**

Replicate Data: IPR-3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.388	4.388	0.098	0.430	0.099			12:49:57	Yes
2	4.554	4.554	0.102	0.437	0.103			12:50:32	Yes
3	4.517	4.517	0.101	0.435	0.102			12:51:08	Yes
Mean:	4.486	4.486	0.100						
SD:	0.087	0.087	0.0019						
%RSD:	1.937	1.937	1.94						

Sequence No.: 49 **Autosampler Location: 40**
Sample ID: IPR-4 **Date Collected: 12/14/2009 12:52:02 PM**
Analyst: **Data Type: Original**

Replicate Data: IPR-4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.700	4.700	0.105	0.462	0.106			12:52:19	Yes
2	2.681	2.681	0.060	-0.347	0.061			12:52:55	Yes
Changing BOC									
3	4.707	4.707	0.105	0.410	0.107			12:53:30	Yes
Mean:	4.029	4.029	0.090						
SD:	1.167	1.167	0.0261						
%RSD:	28.97	28.97	28.97						
Changing BOC									

Sequence No.: 50 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 12/14/2009 12:54:24 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.662	7.662	0.171	0.708	0.173			12:54:41	Yes
2	7.888	7.888	0.176	0.736	0.178			12:55:17	Yes
3	7.761	7.761	0.174	0.725	0.175			12:55:53	Yes
Mean:	7.770	7.770	0.174						
SD:	0.113	0.113	0.0025						
%RSD:	1.456	1.456	1.46						

QC value within limits for Se 196.03 Recovery = 103.60%
All analyte(s) passed QC.

Sequence No.: 51 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 12/14/2009 12:56:47 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.119	0.119	0.003	0.016	0.004			12:57:04	Yes

2	0.088	0.088	0.002	0.014	0.003		12:57:39	Yes
3	0.082	0.082	0.002	0.015	0.003		12:58:15	Yes
Mean:	0.096	0.096	0.002					
SD:	0.020	0.020	0.0005					
%RSD:	20.98	20.98	20.98					

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

==========

Analysis Begun

Logged In Analyst: ACQMET10 **Technique: AA FIAS-Flame**
Spectrometer Model: AAnalyst 200, S/N 200S5061701 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\ACQMET10\Sample Information\121409-Se.sif
Batch ID: 092508-Se
Results Data Set: 121409-Se
Results Library: C:\DATA-AA\ACQMET10\Results\Results.mdb

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Sequence No.: 52 **Autosampler Location:**
Sample ID: K0911092-002 **Date Collected: 12/14/2009 1:01:58 PM**
Analyst: **Data Type: Original**

Replicate Data: K0911092-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.047	0.047	0.001	0.011	0.002			13:02:09	Yes
2	0.081	0.081	0.002	0.009	0.003			13:02:45	Yes
3	0.068	0.068	0.002	0.002	0.003			13:03:20	Yes
Mean:	0.065	0.065	0.001						
SD:	0.017	0.017	0.0004						
%RSD:	26.52	26.52	26.52						

==========

Sequence No.: 53 **Autosampler Location:**
Sample ID: IPR-4 **Date Collected: 12/14/2009 1:04:30 PM**
Analyst: **Data Type: Original**

Replicate Data: IPR-4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.930	4.930	0.110	0.467	0.112			13:04:41	Yes
2	4.639	4.639	0.104	0.414	0.105			13:05:17	Yes
3	4.861	4.861	0.109	0.472	0.110			13:05:53	Yes
Mean:	4.810	4.810	0.108						
SD:	0.152	0.152	0.0034						
%RSD:	3.167	3.167	3.17						

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Sequence No.: 54 **Autosampler Location:**
Sample ID: CCV **Date Collected: 12/14/2009 1:06:58 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.656	7.656	0.171	0.726	0.173			13:07:10	Yes
2	7.741	7.741	0.173	0.746	0.174			13:07:46	Yes
3	7.687	7.687	0.172	0.727	0.173			13:08:22	Yes
Mean:	7.695	7.695	0.172						
SD:	0.043	0.043	0.0010						
%RSD:	0.559	0.559	0.56						

Sequence No.: 55
Sample ID: CCB
Analyst:

Autosampler Location:
Date Collected: 12/14/2009 1:10:27 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.134	0.134	0.003	0.016	0.004			13:10:38	Yes
2	0.069	0.069	0.002	0.004	0.003			13:11:14	Yes
3	0.064	0.064	0.001	0.012	0.003			13:11:50	Yes
Mean:	0.089	0.089	0.002						
SD:	0.039	0.039	0.0009						
%RSD:	43.78	43.78	43.78						

Service Request # K0911120
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	✓	
2. ICV within 10 % of true value	✓	
3. ICB below MRL	✓	
4. CRI 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	✓	

Comments:
File Name: 120709AICP02
Star Lims: 182069
Don't report As,Tl by 200.7
no Ti Added to LCSW/LCSWD (

Primary Review by TC Date 12/7/09

Secondary Review by [illegible] Date 12/8/09

Method: 2009A Sample Name: Blank Operator:
Comment:
Run Time: 12/07/09 08:47 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}
Avg	.0014	.1093	.0270	-.00048
Stddev	.0001	.0490	.0107	.00023
%RSD	7.082	44.80	39.84	48.925
#1	.0013	.0747	.0346	-.00064
#2	.0015	.1439	.0194	-.00031

Elem	Be3130	B_2497	Cd2265	Ca2112
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}
Avg	-.00377	.3929	.0005	.4607
Stddev	.00000	.0194	.0001	.0022
%RSD	.11937	4.928	23.05	.4767
#1	-.00376	.4066	.0004	.4592
#2	-.00377	.3792	.0006	.4623

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	.0857	.0000	.0003	.0235
Stddev	.0117	.000	.0001	.0293
%RSD	13.67	236.0	28.44	124.8
#1	.0940	-.0001	.0002	.0028
#2	.0774	.0000	.0004	.0442

Elem	Fe2599	Fe2714	Pb2203	Mg2025
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}
Avg	.0050	.0006	.0001	.1301
Stddev	.0018	.0003	.0001	.0079
%RSD	35.14	44.80	201.9	6.070
#1	.0063	.0008	.0000	.1245
#2	.0038	.0004	.0002	.1356

Elem	Mg2795	Mn2576	Mn2939	Mo2020
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}
Avg	.13131	.00130	-.0003	.0003
Stddev	.00197	.00011	.0003	.0001
%RSD	1.5008	8.6018	131.0	52.24
#1	.12992	.00122	.0000	.0002
#2	.13270	.00138	-.0005	.0004

Elem	Ni2316	K_7664	Se1960	Ag3280
Line	231.604 {145}	766.490 { 44}	196.090 {171}	328.068 {102}
Avg	-.0007	-.1894	-.0429	-.2405
Stddev	.0003	.2092	.0215	.0196
%RSD	48.32	110.5	50.23	8.140
#1	-.0009	-.0415	-.0277	-.2267
#2	-.0005	-.3373	-.0581	-.2543

Sample Name: Blank Run Time: 12/07/09 08:47

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0026	.0008	.0100	.0004
Stddev	.0007	.0002	.0001	.0001
%RSD	27.13	20.83	.9400	32.74
#1	.0021	.0007	.0100	.0005
#2	.0031	.0010	.0101	.0003

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0297	.1328	.00652	-.0001
Stddev	.0127	.0196	.00045	.0003
%RSD	42.80	14.78	6.8535	236.0
#1	.0207	.1189	.00621	-.0003
#2	.0388	.1467	.00684	.0001

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.08430	-.00517
Stddev	.06058	.00023
%RSD	71.863	4.3914
#1	.12714	-.00533
#2	.04147	-.00501

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	142.40
Stddev	.15
%RSD	.10730
#1	142.51
#2	142.29

12/7/09
12/8/09

Method: 2009A Sample Name: STDB ICP6-77-B Operator:
Comment:
Run Time: 12/07/09 08:50 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	.1407	4.9437	.92536	54.44
Stddev	.0011	.1021	.00442	.26
%RSD	.7757	2.0655	.47778	.4796
#1	.1399	4.8715	.92223	54.25
#2	.1415	5.0159	.92848	54.62

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	1.362	55.24	1.471	235.8
Stddev	.016	.01	.015	.6
%RSD	1.144	.0168	1.050	.2445
#1	1.351	55.24	1.460	236.2
#2	1.373	55.25	1.482	235.3

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	6.305	47.41	97.62	377.98
Stddev	.019	.09	.07	1.01
%RSD	.3041	.1804	.0696	.26781
#1	6.291	47.35	97.67	378.70
#2	6.318	47.47	97.58	377.26

Elem	Sr4077
Line	407.771 { 82}
Avg	15.343
Stddev	.089
%RSD	.58058
#1	15.280
#2	15.406

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	141.28
Stddev	1.01
%RSD	.71393
#1	142.00
#2	140.57

Method: 2009A Sample Name: STDA ICP6-&1-C Operator:
Comment:
Run Time: 12/07/09 08:54 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	16.59	11.72	42.64	.4970
Stddev	.15	.13	.21	.0081
%RSD	.9095	1.096	.4873	1.627
#1	16.49	11.62	42.49	.4912
#2	16.70	11.81	42.78	.5027

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	61.52	.1899	.3055	23.94
Stddev	.70	.0030	.0043	.04
%RSD	1.135	1.586	1.405	.1847
#1	61.02	.1878	.3025	23.97
#2	62.01	.1920	.3086	23.91

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.6349	.1592	2233.9	4.7964
Stddev	.0060	.0026	14.3	.0305
%RSD	.9512	1.635	.64229	.63660
#1	.6392	.1574	2223.8	4.7748
#2	.6307	.1611	2244.0	4.8180

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.2437	.2852	10.16	26.11
Stddev	.0062	.0049	.05	.03
%RSD	2.543	1.713	.5016	.1110
#1	.2393	.2818	10.12	26.09
#2	.2481	.2887	10.20	26.13

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.1576	.3147	.2838	.33328
Stddev	.0041	.0039	.0063	.00552
%RSD	2.604	1.235	2.211	1.6563
#1	.1547	.3120	.2793	.32938
#2	.1605	.3175	.2882	.33718

Elem	Tl1908
Line	190.864 {176}
Avg	.1384
Stddev	.0026
%RSD	1.865
#1	.1365
#2	.1402

Sample Name: STDA Run Time: 12/07/09 08:54

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	141.67
Stddev	1.28
%RSD	.90489
#1	142.57
#2	140.76

Method: 2009A Sample Name: ICV1 ICP6-83-B Operator:
Comment:
Run Time: 12/07/09 08:57 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.860	2.411	2.397	5.0511	.12604	.0013
Stddev	.029	.008	.024	.0888	.00006	.0014
%RSD	.5863	.3265	1.003	1.7583	.04887	109.4
#1	4.880	2.405	2.380	4.9883	.12600	.0022
#2	4.839	2.416	2.414	5.1139	.12608	.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.209	12.78	.5012	1.235	.6219	2.525
Stddev	.006	.09	.0027	.002	.0048	.009
%RSD	.5392	.6887	.5421	.1248	.7668	.3545
#1	1.204	12.71	.4993	1.236	.6185	2.519
#2	1.213	12.84	.5031	1.234	.6253	2.532
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.406	12.26	1.2362	1.995	1.225	Q 11.82
Stddev	.005	.00	.0040	.010	.003	.02
%RSD	.2287	.0080	.32272	.4983	.2147	.1662
#1	2.402	12.26	1.2334	1.988	1.224	11.84
#2	2.410	12.26	1.2390	2.002	1.227	11.81
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.386	.6142	Q 11.74	.0087	1.226	1.243
Stddev	.003	.0011	.01	.0069	.002	.006
%RSD	.1271	.1741	.1015	79.03	.1600	.4668
#1	2.388	.6134	11.75	.0136	1.227	1.239
#2	2.383	.6149	11.73	.0038	1.224	1.248
Check ?	QC Pass	QC Pass	QC Fail	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

*see Rerun JC 12/7/09

Sample Name: ICV1 Run Time: 12/07/09 08:57

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0803	.0116	2.0133	Q 2.354	.00074	.00703
Stddev	.0028	.0032	.0044	.011	.00066	.00001
%RSD	3.525	27.78	.21984	.4844	88.899	.19887
#1	-.0823	.0093	2.0102	2.346	.00120	.00704
#2	-.0783	.0138	2.0165	2.362	.00027	.00702
Check ?	None	None	QC Pass	QC Fail	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	140.99
Stddev	.21
%RSD	.14623
#1	140.84
#2	141.14

Analysis Report 12/07/09 09:02:54 page 1

Method: 2009A Sample Name: ICV1 Rerun Operator:
Comment:
Run Time: 12/07/09 09:00 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.849	2.401	2.447	5.0710	.12611	.0003
Stddev	.025	.010	.002	.0961	.00053	.0010
%RSD	.5144	.4292	.0662	1.8958	.42216	298.1
#1	4.831	2.409	2.448	5.0031	.12573	.0011
#2	4.867	2.394	2.446	5.1390	.12648	-.0004
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.222	12.79	.5058	1.238	.6374	2.512
Stddev	.003	.09	.0024	.004	.0030	.011
%RSD	.2101	.7341	.4700	.3108	.4747	.4356
#1	1.220	12.72	.5041	1.236	.6352	2.520
#2	1.224	12.85	.5075	1.241	.6395	2.504
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.404	12.31	1.2517	2.013	1.230	11.95
Stddev	.019	.02	.0053	.017	.004	.00
%RSD	.8072	.1565	.42667	.8404	.3449	.0226
#1	2.391	12.30	1.2555	2.001	1.227	11.95
#2	2.418	12.32	1.2479	2.025	1.233	11.95
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.408	.6183	11.90	.0052	1.232	1.257
Stddev	.017	.0018	.03	.0038	.001	.007
%RSD	.7207	.2904	.2638	73.13	.0938	.5663
#1	2.396	.6170	11.92	.0079	1.231	1.252
#2	2.420	.6196	11.88	.0025	1.233	1.262
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 12/07/09 09:00 Rerun

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0767	.0123	2.0280	Q 2.369	.00106	.00727
Stddev	.0021	.0021	.0008	.022	.00009	.00004
%RSD	2.680	17.18	.04102	.9180	8.7487	.50808
#1	-.0753	.0108	2.0286	2.354	.00100	.00724
#2	-.0782	.0137	2.0274	2.384	.00113	.00730
Check ?	None	None	QC Pass	QC Fail	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	141.60
Stddev	.26
%RSD	.18181
#1	141.42
#2	141.78

Method: 2009A Sample Name: ICVB1 Operator:
Comment:
Run Time: 12/07/09 09:03 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9787	-.0030	.0045	.00237	.00011	1.984
Stddev	.0256	.0218	.0013	.00096	.00000	.004
%RSD	2.615	721.8	28.09	40.456	1.4323	.1971
#1	.9968	-.0184	.0036	.00304	.00011	1.982
#2	.9606	.0124	.0054	.00169	.00011	1.987
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	5.094	.0019	.0003	.0001	10.16
Stddev	.0000	.039	.0005	.0005	.0011	.02
%RSD	3.185	.7584	26.02	139.7	972.1	.1753
#1	.0003	5.067	.0022	.0007	-.0006	10.15
#2	.0003	5.121	.0015	.0000	.0009	10.17
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	5.0728	10.28	.0176	.0019	.0371
Stddev	.0074	.0140	.02	.0077	.0002	.0113
%RSD	929.1	.27690	.1631	43.81	8.683	30.34
#1	.0044	5.0629	10.27	.0231	.0020	.0451
#2	-.0060	5.0827	10.29	.0122	.0018	.0292
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0016	.0325	4.945	.0029	.0019
Stddev	.0067	.0002	.0024	.013	.0007	.0015
%RSD	140.1	9.361	7.325	.2642	24.86	79.72
#1	.0095	.0017	.0342	4.936	.0034	.0008
#2	.0000	.0015	.0309	4.954	.0024	.0029
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 12/07/09 09:03

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.013	5.078	.00101	-.0047	2.0274	1.9392
Stddev	.028	.014	.00132	.0110	.0055	.0086
%RSD	.5614	.2689	131.34	234.0	.27247	.44482
#1	4.993	5.068	.00194	-.0125	2.0235	1.9331
#2	5.033	5.087	.00007	.0031	2.0313	1.9453
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	141.64
Stddev	.36
%RSD	.25255
#1	141.38
#2	141.89

Method: 2009A Sample Name: ICB Operator:
Comment:
Run Time: 12/07/09 09:06 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0087	-.0028	.0115	-.00017	.00004
Stddev	.0006	.0118	.0067	.00032	.00004
%RSD	6.868	417.1	57.93	186.51	102.02
#1	-.0083	.0055	.0068	.00006	.00001
#2	-.0091	-.0112	.0163	-.00040	.00006
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0003	-.0010	-.0019	.0002
Stddev	.0000	.0002	.0002	.0000	.0002
%RSD	14.02	74.69	15.74	.5123	86.78
#1	.0003	-.0002	-.0009	-.0018	.0003
#2	.0003	-.0005	-.0011	-.0019	.0001
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0018	-.0018	.00023	.00126
Stddev	.0001	.0048	.0018	.00015	.00123
%RSD	5.458	263.2	98.98	66.099	97.571
#1	-.0016	.0052	-.0005	.00033	.00213
#2	-.0014	-.0016	-.0031	.00012	.00039
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0004	.0067	.0014	.0005
Stddev	.0007	.0006	.0040	.0086	.0015
%RSD	15.70	133.6	59.55	635.3	282.1
#1	.0048	.0000	.0095	-.0047	.0016
#2	.0038	.0009	.0039	.0075	-.0005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: ICB Run Time: 12/07/09 09:06

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0099	.0032	.0002	-.0026
Stddev	.0017	.0019	.0003	.0004	.0058
%RSD	1260.	19.07	8.841	242.0	219.7
#1	.0013	.0112	.0030	-.0001	-.0067
#2	-.0011	.0086	.0034	.0005	.0015
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.00002	-.0055	-.00035	.00009
Stddev	.0025	.00028	.0134	.00061	.00005
%RSD	154.1	1835.2	244.2	175.69	54.974
#1	.0034	-.00018	-.0150	.00008	.00006
#2	-.0001	.00021	.0040	-.00078	.00013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	136.37
Stddev	.71
%RSD	.52333
#1	136.87
#2	135.86

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/07/09 09:17 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.835	-.0110	.0007	2.4425	.04934	-.0157
Stddev	.044	.0254	.0067	.0088	.00040	.0010
%RSD	.9081	230.0	1005.	.35901	.80700	6.071
#1	4.784	.0239	-.0015	2.4303	.04879	-.0165
#2	4.822	-.0120	.0057	2.4425	.04931	-.0165
#3	4.844	-.0196	.0063	2.4507	.04965	-.0150
#4	4.889	-.0363	-.0079	2.4465	.04961	-.0147
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	25.07	.0006	-.0008	-.0015	24.76
Stddev	.0002	.23	.0016	.0007	.0017	.27
%RSD	26.52	.9142	258.4	86.75	108.9	1.100
#1	-.0008	24.90	.0022	-.0014	-.0018	24.47
#2	-.0007	24.88	-.0006	-.0008	.0001	24.64
#3	-.0005	25.15	-.0008	.0002	-.0006	24.82
#4	-.0010	25.36	.0017	-.0011	-.0038	25.11
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	24.25	4.963	.0001	-.0016	9.547
Stddev	.0099	.13	.031	.0014	.0007	.127
%RSD	570.9	.5458	.6184	1305.	43.52	1.326
#1	-.0076	24.14	4.923	.0002	-.0010	9.465
#2	-.0008	24.16	4.957	.0017	-.0026	9.460
#3	.0119	24.26	4.978	-.0018	-.0016	9.534
#4	-.0104	24.43	4.994	.0003	-.0012	9.730
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 12/07/09 09:17

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	-.0001	9.542	-.0058	.0030	.0011
Stddev	.0122	.0011	.079	.0048	.0005	.0008
%RSD	96.11	854.6	.8241	83.85	16.36	66.11
#1	.0174	.0004	9.507	-.0126	.0031	.0021
#2	.0133	.0010	9.478	-.0040	.0032	.0006
#3	-.0043	-.0015	9.525	-.0053	.0023	.0015
#4	.0242	-.0004	9.656	-.0012	.0034	.0005
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.875	2.449	.00063	-.0253	.47551	.49063
Stddev	.035	.015	.00123	.0064	.00432	.00357
%RSD	.3567	.5970	193.98	25.35	.90901	.72821
#1	9.851	2.437	-.00088	-.0291	.47375	.48699
#2	9.841	2.436	.00099	-.0307	.47200	.48902
#3	9.889	2.458	.00207	-.0164	.47449	.49118
#4	9.917	2.464	.00035	-.0248	.48180	.49533
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	140.76
Stddev	.28
%RSD	.20205
#1	141.16
#2	140.52
#3	140.60
#4	140.77

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/07/09 09:25 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4650	2.391	Q 2.370	.45899	.55126	.4858
Stddev	.0199	.016	.011	.00180	.00529	.0034
%RSD	4.281	.6717	.4481	.39202	.95978	.6965
#1	.4930	2.368	2.366	.46117	.55579	.4893
#2	.4470	2.394	2.356	.45970	.55407	.4878
#3	.4638	2.399	2.380	.45788	.55137	.4844
#4	.4561	2.403	2.376	.45720	.54380	.4817
Check ?	None	QC Pass	QC Fail	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4973	2.509	.4948	.5001	.4932	.4915
Stddev	.0004	.013	.0047	.0032	.0064	.0041
%RSD	.0779	.5159	.9574	.6329	1.295	.8437
#1	.4973	2.507	.5013	.5045	.4941	.4963
#2	.4969	2.514	.4932	.4997	.4852	.4932
#3	.4971	2.523	.4901	.4993	.4927	.4901
#4	.4978	2.492	.4947	.4970	.5008	.4866
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.511	2.0436	.96355	.9981	.4980	4.796
Stddev	.009	.0062	.00812	.0061	.0030	.032
%RSD	.3375	.30232	.84221	.6069	.5973	.6715
#1	2.523	2.0380	.97266	1.003	.5024	4.813
#2	2.506	2.0496	.96656	.9954	.4959	4.810
#3	2.512	2.0483	.96150	1.003	.4968	4.814
#4	2.505	2.0385	.95348	.9908	.4968	4.748
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 12/07/09 09:25

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.422	.4921	.4701	2.488	.5037	.5014
Stddev	.021	.0021	.0024	.012	.0060	.0017
%RSD	.8802	.4213	.5188	.4995	1.185	.3383
#1	2.453	.4943	.4716	2.488	.5107	.4994
#2	2.410	.4924	.4724	2.505	.5061	.5018
#3	2.406	.4893	.4696	2.487	.5014	.5011
#4	2.421	.4922	.4669	2.475	.4968	.5035
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0799	.2795	.50128	4.927	.49083	.50176
Stddev	.0087	.0017	.00372	.035	.00428	.00569
%RSD	10.88	.6097	.74304	.7143	.87140	1.1343
#1	-.0914	.2812	.50399	4.955	.49453	.50826
#2	-.0763	.2798	.50219	4.959	.49368	.50374
#3	-.0710	.2801	.50315	4.900	.48999	.50028
#4	-.0810	.2771	.49580	4.893	.48514	.49477
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	139.71
Stddev	.79
%RSD	.56851
#1	138.69
#2	139.46
#3	140.25
#4	140.42

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/07/09 09:32 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0103	-.0041	.0044	-.00012	.00008
Stddev	.0139	.0041	.0033	.00027	.00005
%RSD	135.3	99.98	75.32	221.91	67.674
#1	-.0201	-.0069	.0068	-.00031	.00004
#2	-.0004	-.0012	.0021	.00007	.00012
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	-.0002	.0036	-.0017	.0001
Stddev	.0001	.0004	.0019	.0002	.0005
%RSD	5.975	186.4	53.07	10.46	347.8
#1	-.0024	-.0005	.0022	-.0016	.0005
#2	-.0022	.0001	.0049	-.0018	-.0002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	-.0022	-.0006	.00025	.00064
Stddev	.0036	.0007	.0005	.00004	.00003
%RSD	214.3	33.81	82.85	16.785	4.5660
#1	.0009	-.0017	-.0002	.00028	.00066
#2	-.0042	-.0027	-.0009	.00022	.00062
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0048	-.0005	.0163	-.0041	.0028
Stddev	.0039	.0004	.0186	.0048	.0036
%RSD	81.76	79.19	113.9	117.6	125.7
#1	.0075	-.0007	.0294	-.0007	.0054
#2	.0020	-.0002	.0032	-.0075	.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/07/09 09:32

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.0040	.0032	.0022	.0137
Stddev	.0008	.0015	.0002	.0008	.0116
%RSD	36.07	37.72	5.126	38.46	84.18
#1	-.0027	.0050	.0033	.0028	.0219
#2	-.0016	.0029	.0031	.0016	.0056
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.00075	.0069	.00055	.00013
Stddev	.0021	.00034	.0041	.00011	.00000
%RSD	596.3	45.502	59.37	20.618	2.1417
#1	-.0011	.00051	.0040	.00047	.00013
#2	.0018	.00099	.0099	.00063	.00013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	137.63
Stddev	.64
%RSD	.46174
#1	137.18
#2	138.08

Method: 2009A Sample Name: CRI ICP6-80-A Operator:
Comment:
Run Time: 12/07/09 09:35 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489	.0064	.0894	.00471	.00550	.0489
Stddev	.0004	.0130	.0221	.00009	.00003	.0009
%RSD	.7768	201.9	24.76	1.8877	.49244	1.827
#1	.0491	.0156	.1050	.00465	.00548	.0496
#2	.0486	-.0027	.0737	.00478	.00552	.0483
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	100.0%	100.0%	100.00%	100.00%	100.0%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	.0560	.0042	.0090	.0109	.0170
Stddev	.0006	.0013	.0012	.0008	.0000	.0000
%RSD	13.02	2.274	29.59	9.265	.0007	.0377
#1	.0045	.0569	.0033	.0096	.0109	.0170
#2	.0054	.0551	.0050	.0084	.0109	.0170
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0511	.02173	.00520	.0129	.0217	.3977
Stddev	.0002	.00026	.00000	.0004	.0005	.0045
%RSD	.4380	1.2059	.01372	3.064	2.288	1.127
#1	.0509	.02155	.00520	.0132	.0214	.4009
#2	.0512	.02192	.00520	.0127	.0221	.3945
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	100.0%	100.00%	100.00%	100.0%	100.0%	100.0%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1159	.0105	.2121	.0421	.0151	.0096
Stddev	.0001	.0031	.0001	.0043	.0004	.0017
%RSD	.0452	29.68	.0422	10.25	2.986	17.41
#1	.1159	.0083	.2122	.0390	.0147	.0084
#2	.1160	.0127	.2120	.0451	.0154	.0108
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sample Name: CRI Run Time: 12/07/09 09:35

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1895	.3976	.00917	.1758	.01014	.00966
Stddev	.0048	.0013	.00208	.0169	.00031	.00017
%RSD	2.555	.3296	22.649	9.612	3.0583	1.7084
#1	.1929	.3967	.00770	.1639	.00992	.00955
#2	.1861	.3985	.01064	.1878	.01036	.00978
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	100.0%	100.0%	100.00%	100.0%	100.00%	100.00%

Int. Std.	Sc3572
Units	Cts/S
Avg	139.67
Stddev	.51
%RSD	.36426
#1	140.03
#2	139.31

Method: 2009A Sample Name: ICSA ICP6-82-A Operator:
Comment:
Run Time: 12/07/09 09:38 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	550.5	.0368	-.0123	-.00168	.00021	-.0130
Stddev	1.9	.0172	.0008	.00038	.00002	.0039
%RSD	.3467	46.74	6.598	22.880	7.4381	30.31
#1	549.1	.0489	-.0129	-.00141	.00022	-.0158
#2	551.8	.0246	-.0117	-.00195	.00020	-.0102
Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0055	502.5	-.0064	-.0008	-.0006	203.6
Stddev	.0001	.2	.0005	.0004	.0011	1.1
%RSD	2.469	.0339	8.314	47.25	180.8	.5275
#1	-.0054	502.4	-.0060	-.0005	.0002	202.9
#2	-.0056	502.7	-.0068	-.0010	-.0014	204.4
Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0059	506.2	.00346	-.0080	-.0011	-.0251
Stddev	.0061	2.0	.00005	.0024	.0000	.0015
%RSD	102.9	.3898	1.4526	29.57	1.569	5.899
#1	-.0102	504.8	.00349	-.0063	-.0011	-.0261
#2	-.0016	507.6	.00342	-.0096	-.0011	-.0241
Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089	.0010	.0772	-.0271	.0008	-.0012
Stddev	.0039	.0019	.0028	.0056	.0015	.0009
%RSD	43.92	192.3	3.570	20.81	196.8	72.01
#1	.0062	-.0004	.0791	-.0231	-.0003	-.0019
#2	.0117	.0024	.0752	-.0311	.0018	-.0006
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 12/07/09 09:38

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203	-.0201	.05919	-.0787	.01543	.06302
Stddev	.0341	.0008	.00008	.0156	.00019	.00009
%RSD	167.9	4.009	.13051	19.88	1.2118	.14081
#1	-.0038	-.0206	.05925	-.0676	.01556	.06295
#2	.0444	-.0195	.05914	-.0897	.01529	.06308
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	127.23
Stddev	.29
%RSD	.23049
#1	127.44
#2	127.03

Method: 2009A Sample Name: ICSAB ICP6-18-A Operator:
Comment:
Run Time: 12/07/09 09:41 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	533.0	1.011	-.0051	.44776	.55285	.0396
Stddev	.2	.013	.0054	.00204	.00017	.0075
%RSD	.0466	1.287	106.4	.45528	.03123	18.96
#1	533.2	1.002	-.0013	.44632	.55297	.0450
#2	532.8	1.020	-.0090	.44920	.55273	.0343
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9158	500.1	.4736	.4659	.4511	197.7
Stddev	.0072	1.7	.0003	.0006	.0066	.2
%RSD	.7828	.3329	.0562	.1288	1.468	.0777
#1	.9107	498.9	.4735	.4655	.4464	197.5
#2	.9209	501.2	.4738	.4664	.4558	197.8
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9310	500.9	.44362	-.0089	.9147	-.0626
Stddev	.0067	.1	.00194	.0002	.0036	.0002
%RSD	.7230	.0263	.43647	2.091	.3956	.2653
#1	.9358	501.0	.44225	-.0088	.9122	-.0625
#2	.9263	500.8	.44499	-.0091	.9173	-.0627
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.9389	.0393	-.0289	.4919	.9043
Stddev	.0106	.0001	.0002	.0039	.0034	.0053
%RSD	186.8	.0155	.6177	13.38	.6830	.5853
#1	-.0018	.9388	.0395	-.0262	.4895	.9005
#2	.0131	.9390	.0391	-.0317	.4943	.9080
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 12/07/09 09:41

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0576	-.0154	.06039	-.0591	.01426	.06373
Stddev	.0291	.0012	.00074	.0154	.00025	.00030
%RSD	50.45	7.840	1.2204	26.00	1.7418	.46344
#1	-.0371	-.0162	.05987	-.0482	.01408	.06352
#2	-.0782	-.0145	.06091	-.0699	.01443	.06394
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	128.99
Stddev	.01
%RSD	.00431
#1	128.98
#2	128.99

Method: 2009A Sample Name: ICSAB Operator:
Comment:
Run Time: 12/07/09 09:45 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	525.3	.9758	-.0162	.44797	.54746	.0127
Stddev	3.1	.0076	.0245	.00355	.00129	.0058
%RSD	.5977	.7811	150.9	.79137	.23621	45.88
#1	523.1	.9704	.0011	.44547	.54654	.0169
#2	527.5	.9811	-.0335	.45048	.54837	.0086
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9198	495.2	.4737	.4640	.4605	195.4
Stddev	.0074	1.1	.0047	.0024	.0052	.5
%RSD	.8021	.2171	.9954	.5198	1.128	.2761
#1	.9146	494.5	.4704	.4623	.4568	195.1
#2	.9250	496.0	.4771	.4657	.4642	195.8
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9285	497.6	.44396	-.0093	.9086	-.0629
Stddev	.0129	2.1	.00230	.0007	.0007	.0066
%RSD	1.384	.4131	.51761	7.432	.0742	10.52
#1	.9194	499.0	.44233	-.0089	.9082	-.0582
#2	.9376	496.1	.44558	-.0098	.9091	-.0676
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	.9343	.0342	-.0229	.4860	.9054
Stddev	.0212	.0051	.0010	.0055	.0042	.0077
%RSD	1072.	.5467	2.848	24.16	.8584	.8549
#1	-.0169	.9307	.0335	-.0269	.4830	.8999
#2	.0130	.9379	.0349	-.0190	.4889	.9108
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

12/7/09

Sample Name: ICSAB Run Time: 12/07/09 09:45

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0503	-.0174	.06074	-.0628	.01383	.06455
Stddev	.0235	.0047	.00006	.0123	.00031	.00021
%RSD	46.67	27.14	.09921	19.61	2.2535	.32187
#1	-.0669	-.0208	.06079	-.0541	.01405	.06440
#2	-.0337	-.0141	.06070	-.0715	.01361	.06469
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	129.69
Stddev	.21
%RSD	.16429
#1	129.84
#2	129.54

3C
12/7/09

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/07/09 09:48 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.863	-.0104	-.0043	2.4404	.04980	-.0104
Stddev	.043	.0071	.0109	.0088	.00028	.0007
%RSD	.8833	68.31	251.4	.36199	.55525	6.659
#1	4.893	-.0054	.0034	2.4466	.05000	-.0100
#2	4.832	-.0154	-.0120	2.4341	.04961	-.0109
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	25.32	-.0011	-.0015	-.0036	25.06
Stddev	.0001	.01	.0012	.0006	.0013	.05
%RSD	104.2	.0510	111.4	41.12	35.92	.2080
#1	-.0002	25.33	-.0002	-.0011	-.0027	25.09
#2	.0000	25.31	-.0019	-.0019	-.0046	25.02
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	24.18	5.003	-.0002	-.0007	9.407
Stddev	.0066	.07	.019	.0010	.0005	.004
%RSD	247.5	.2717	.3724	663.0	69.33	.0393
#1	.0020	24.14	5.016	.0006	-.0004	9.410
#2	-.0073	24.23	4.990	-.0009	-.0011	9.405
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0012	9.400	-.0055	.0020	.0008
Stddev	.0096	.0003	.025	.0008	.0006	.0004
%RSD	184.1	23.90	.2626	15.01	27.96	52.80
#1	.0120	.0014	9.382	-.0061	.0024	.0005
#2	-.0016	.0010	9.417	-.0049	.0016	.0011
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/07/09 09:48

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.832	2.446	-.00029	-.0230	.47294	.49356
Stddev	.019	.002	.00083	.0029	.00098	.00145
%RSD	.1971	.0676	283.65	12.71	.20729	.29432
#1	9.818	2.444	.00030	-.0209	.47225	.49458
#2	9.845	2.447	-.00088	-.0250	.47363	.49253
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	139.82
Stddev	.44
%RSD	.31687
#1	139.51
#2	140.14

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/07/09 09:51 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4614	2.354	2.437	.45922	.53461	.4752
Stddev	.0089	.035	.010	.00015	.00192	.0016
%RSD	1.921	1.498	.4182	.03352	.35894	.3298
#1	.4677	2.329	2.430	.45911	.53325	.4741
#2	.4552	2.379	2.444	.45932	.53596	.4763
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5011	2.411	.4935	.4939	.5101	.4957
Stddev	.0008	.003	.0027	.0005	.0020	.0121
%RSD	.1528	.1425	.5558	.0993	.3884	2.447
#1	.5006	2.409	.4916	.4935	.5087	.5043
#2	.5017	2.414	.4955	.4942	.5115	.4871
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.449	2.0182	.96634	.9757	.4912	4.742
Stddev	.023	.0052	.00763	.0038	.0021	.003
%RSD	.9456	.25856	.78931	.3867	.4364	.0695
#1	2.466	2.0145	.96094	.9730	.4897	4.744
#2	2.433	2.0219	.97173	.9783	.4927	4.739
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.370	.4900	.4702	2.381	.4854	.5010
Stddev	.026	.0079	.0070	.011	.0001	.0023
%RSD	1.083	1.608	1.486	.4592	.0256	.4583
#1	2.352	.4845	.4752	2.373	.4855	.4994
#2	2.388	.4956	.4653	2.389	.4854	.5027
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/07/09 09:51

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0605	.2768	.50170	4.912	.48192	.48383
Stddev	.0008	.0054	.00347	.059	.00225	.00143
%RSD	1.386	1.946	.69239	1.206	.46663	.29489
#1	-.0611	.2730	.49925	4.870	.48033	.48282
#2	-.0599	.2806	.50416	4.954	.48351	.48484
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	141.19
Stddev	.21
%RSD	.15069
#1	141.04
#2	141.34

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/07/09 09:54 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0070	-.0120	.0041	-.00006	.00012
Stddev	.0051	.0212	.0021	.00043	.00005
%RSD	72.94	176.6	50.69	685.24	38.159
#1	-.0034	-.0270	.0056	.00024	.00015
#2	-.0106	.0030	.0027	-.00037	.00009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	-.0005	.0039	-.0012	.0000
Stddev	.0006	.0004	.0017	.0004	.001
%RSD	58.83	73.70	44.24	37.47	6771.
#1	-.0014	-.0002	.0052	-.0015	.0008
#2	-.0006	-.0008	.0027	-.0009	-.0008
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0011	.0040	.00133	.00058
Stddev	.0013	.0003	.0020	.00008	.00022
%RSD	325.1	28.01	50.14	5.6851	38.924
#1	-.0005	.0014	.0054	.00139	.00074
#2	.0013	.0009	.0026	.00128	.00042
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0011	.0023	.0075	.0024
Stddev	.0039	.0006	.0101	.0038	.0000
%RSD	55.83	56.89	432.3	51.50	.2506
#1	.0097	.0016	.0095	.0047	.0024
#2	.0042	.0007	-.0048	.0102	.0024
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/07/09 09:54

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0035	.0029	-.0011	.0012
Stddev	.0065	.0004	.0004	.0011	.0087
%RSD	761.2	12.61	14.51	98.75	742.6
#1	.0038	.0032	.0032	-.0019	-.0050
#2	-.0055	.0039	.0026	-.0003	.0073
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.00179	.0004	.00015	.00004
Stddev	.0002	.00162	.0051	.00099	.00002
%RSD	15.25	90.542	1154.	663.53	50.136
#1	.0014	.00293	-.0032	.00085	.00003
#2	.0011	.00064	.0041	-.00055	.00005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	138.09
Stddev	.08
%RSD	.06029
#1	138.15
#2	138.03

Method: 2009A Sample Name: K0911120-MB Operator: JC
Comment: RD (182069) (120709A)
Run Time: 12/07/09 09:57 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0080	-.0442	.0009	.00009	.00003
#1	-.0080	-.0580	.0003	-.00012	.00001
#2	-.0079	-.0305	.0015	.00029	.00004

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	-.0005	.0065	-.0018	-.0002
#1	-.0023	-.0002	.0074	-.0027	-.0002
#2	-.0016	-.0008	.0056	-.0008	-.0002

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	-.0003	.0019	.00099	.00006
#1	-.0027	.0006	-.0043	.00115	.00003
#2	-.0006	-.0013	.0082	.00082	.00009

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0014	.0020	.0075	-.0025
#1	.0015	.0018	.0067	.0075	-.0026
#2	.0006	.0010	-.0027	.0075	-.0024

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0020	.0028	.0011	.1618
#1	.0046	-.0029	.0021	.0010	.1528
#2	-.0016	.0070	.0034	.0013	.1708

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.00068	-.0082	.00022	.00003
#1	-.0007	.00127	-.0118	.00090	.00004
#2	.0003	.00008	-.0046	-.00046	.00003

Int. Std.	Sc3572
Units	Cts/S
Avg	138.59
#1	138.68
#2	138.50

Method: 2009A Sample Name: LCSW Operator: JC
Comment: RD K0911120 (182069) (120709A)
Run Time: 12/07/09 10:00 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.014	2.412	2.382	5.0087	.12799	.9927
#1	5.006	2.387	2.376	4.9985	.12781	.9922
#2	5.022	2.437	2.389	5.0189	.12818	.9931

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.211	12.89	.5009	1.242	.6064	2.560
#1	1.207	12.78	.4989	1.242	.6079	2.551
#2	1.216	13.01	.5029	1.242	.6050	2.570

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.481	12.21	1.2486	1.011	1.233	12.07
#1	2.469	12.22	1.2477	1.006	1.230	12.11
#2	2.493	12.21	1.2494	1.016	1.236	12.03

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.436	.6124	11.86	.0011	1.266	1.233
#1	2.424	.6109	11.90	-.0005	1.266	1.225
#2	2.447	.6138	11.83	.0027	1.267	1.241

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0359	.0115	.00208	2.371	.00086	.00661
#1	.0511	.0118	.00188	2.344	.00081	.00671
#2	.0207	.0111	.00228	2.398	.00092	.00652

Int. Std.	Sc3572
Units	Cts/S
Avg	138.84
#1	138.92
#2	138.75

Method: 2009A Sample Name: LCSWD Operator: JC
Comment: RD K0911120 (182069) (120709A)
Run Time: 12/07/09 10:03 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.966	2.429	2.405	5.0593	.12824	.9936
#1	4.937	2.408	2.393	5.0528	.12828	.9950
#2	4.995	2.450	2.417	5.0659	.12821	.9922

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.230	12.96	.5063	1.255	.6170	2.564
#1	1.228	12.89	.5052	1.253	.6179	2.571
#2	1.231	13.04	.5075	1.256	.6161	2.557

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.484	12.28	1.2439	1.020	1.240	11.87
#1	2.489	12.27	1.2475	1.018	1.240	11.91
#2	2.478	12.30	1.2403	1.021	1.241	11.82

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.478	.6165	11.82	.0013	1.250	1.252
#1	2.483	.6134	11.85	-.0016	1.251	1.249
#2	2.473	.6197	11.79	.0041	1.248	1.255

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	.0089	.00058	2.416	.00081	.00657
#1	.0394	.0084	.00060	2.398	.00064	.00655
#2	.0546	.0093	.00056	2.435	.00098	.00659

Int. Std.	Sc3572
Units	Cts/S
Avg	139.50
#1	139.35
#2	139.66

Method: 2009A Sample Name: K0911120-023 Operator: JC
Comment: RD (182069) (120709A)
Run Time: 12/07/09 10:06 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0154	-.0024	.0018	.00070	.00004
#1	-.0176	.0089	-.0015	.00119	.00007
#2	-.0133	-.0137	.0050	.00020	.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	-.0003	.0055	.0004	.0000
#1	-.0005	.0001	.0047	.0010	.0006
#2	-.0018	-.0007	.0063	-.0001	-.0006

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0009	.0008	.00132	.00031
#1	.0013	.0022	-.0043	.00161	.00042
#2	-.0005	-.0003	.0059	.00102	.00021

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.0015	.0185	-.0054	.0008
#1	.0101	.0023	.0001	-.0007	.0028
#2	.0049	.0007	.0369	-.0102	-.0012

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0055	-.0065	.0028	.0011	.2255
#1	.0048	-.0067	.0039	.0019	.2346
#2	.0062	-.0064	.0016	.0004	.2164

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.00110	.0148	-.00041	-.00001
#1	-.0014	.00151	.0184	.00016	-.00001
#2	.0006	.00068	.0113	-.00098	-.00002

Int. Std.	Sc3572
Units	Cts/S
Avg	140.26
#1	140.25
#2	140.26

Method: 2009A Sample Name: K0911120-023L Operator: JC
Comment: RD 1/5 (182069) (120709A)
Run Time: 12/07/09 10:09 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077	-.0279	.0018	-.00013	.00001	-.0011
#1	.0198	-.0421	-.0003	-.00023	.00000	-.0009
#2	-.0045	-.0138	.0039	-.00003	.00003	-.0014

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0053	-.0016	-.0005	-.0027	-.0017
#1	-.0003	.0025	-.0020	-.0006	-.0032	-.0017
#2	-.0008	.0081	-.0011	-.0005	-.0021	-.0017

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.00077	.00018	.0013	.0008	.0145
#1	.0010	.00087	.00020	.0018	.0009	.0107
#2	-.0034	.00067	.00016	.0008	.0006	.0184

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.0021	.0019	-.0030	.0034	-.0008
#1	-.0034	.0047	-.0001	-.0038	.0043	-.0013
#2	.0102	-.0005	.0039	-.0021	.0025	-.0003

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0569	-.0032	.00030	-.0054	.00015	.00007
#1	.0674	-.0034	.00018	-.0090	.00027	.00010
#2	.0464	-.0030	.00043	-.0018	.00004	.00004

Int. Std.	Sc3572
Units	Cts/S
Avg	137.75
#1	137.78
#2	137.72

Method: 2009A Sample Name: K0911120-024 Operator: JC
Comment: RD (182069) (120709A)
Run Time: 12/07/09 10:12 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071	-.0138	-.0036	-.00007	.00005	-.0019
#1	-.0242	-.0221	.0027	.00003	.00001	-.0010
#2	.0384	-.0054	-.0098	-.00016	.00008	-.0028

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0138	-.0015	.0005	.0001	.0014
#1	-.0004	.0142	-.0010	.0002	-.0011	.0006
#2	-.0010	.0135	-.0020	.0009	.0012	.0022

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.00209	.00019	-.0001	.0009	.0759
#1	-.0003	.00212	.00002	.0003	.0009	.0629
#2	.0075	.00206	.00036	-.0005	.0009	.0889

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0122	-.0030	.4487	-.0002	.0054	.0013
#1	.0048	-.0049	.4235	-.0008	.0017	.0027
#2	.0197	-.0012	.4738	.0004	.0091	-.0001

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2538	.0249	.00213	-.0070	.00029	.00004
#1	.2564	.0256	.00107	-.0002	.00047	.00002
#2	.2512	.0241	.00318	-.0137	.00011	.00006

Int. Std.	Sc3572
Units	Cts/S
Avg	132.79
#1	139.15
#2	126.42

Method: 2009A Sample Name: RB Operator: JC
Comment: (182069) (120709A)
Run Time: 12/07/09 10:15 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	-.0104	-.0036	.00024	.00005	-.0016
#1	.0058	.0038	-.0009	.00034	.00004	-.0014
#2	.0016	-.0246	-.0062	.00013	.00005	-.0017

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0048	-.0026	.0002	-.0001	-.0028
#1	.0003	.0054	-.0022	.0000	.0004	-.0027
#2	-.0004	.0043	-.0030	.0005	-.0006	-.0029

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.00038	.00014	.0016	.0017	-.0040
#1	.0100	.00041	.00007	.0015	.0021	-.0130
#2	-.0005	.00034	.00021	.0018	.0014	.0050

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.0017	-.0016	-.0050	.0043	-.0008
#1	.0007	.0022	.0018	-.0040	.0062	-.0019
#2	.0048	.0012	-.0049	-.0059	.0025	.0002

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085	.0001	.00216	-.0152	-.00011	.00002
#1	.0114	.0011	.00064	-.0152	-.00017	.00003
#2	.0056	-.0009	.00368	-.0152	-.00005	.00002

Int. Std.	Sc3572
Units	Cts/S
Avg	135.39
#1	135.50
#2	135.27

Method: 2009A Sample Name: K0911353-MB Operator: JC
Comment: (182069) (120709A)
Run Time: 12/07/09 10:18 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0136	-.0150	.0003	-.00023	.00000
#1	-.0129	-.0422	.0056	-.00016	.00004
#2	-.0143	.0121	-.0050	-.00031	-.00003

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	-.0002	.0046	-.0019	.0002
#1	-.0016	-.0003	.0022	-.0024	.0000
#2	-.0022	.0000	.0070	-.0014	.0004

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	-.0027	.0035	.00037	.00004
#1	-.0006	-.0027	.0022	.00041	.00005
#2	-.0041	-.0027	.0047	.00033	.00004

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0017	.0121	.0041	.0017
#1	-.0004	.0013	.0132	.0088	.0018
#2	.0002	.0020	.0109	-.0007	.0016

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0025	.0002	.0022	-.0001	.2018
#1	.0045	.0007	.0036	-.0002	.2135
#2	.0005	-.0002	.0007	-.0001	.1902

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.00102	-.0031	-.00043	.00007
#1	-.0010	.00102	-.0088	-.00064	.00003
#2	-.0017	.00101	.0027	-.00022	.00011

Int. Std.	Sc3572
Units	Cts/S
Avg	139.52
#1	139.47
#2	139.56

Method: 2009A Sample Name: LCSW Operator: JC
Comment: K0911353 (182069) (120709A)
Run Time: 12/07/09 10:21 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.863	2.443	2.441	5.0192	.12626	.9860
#1	4.851	2.440	2.420	5.0112	.12622	.9863
#2	4.876	2.447	2.461	5.0272	.12629	.9858

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.226	12.76	.5023	1.238	.6332	2.521
#1	1.222	12.83	.5021	1.236	.6335	2.528
#2	1.231	12.70	.5024	1.239	.6328	2.513

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.457	12.20	1.2385	1.005	1.227	11.83
#1	2.463	12.20	1.2289	1.000	1.224	11.82
#2	2.450	12.20	1.2481	1.010	1.229	11.85

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.454	.6113	11.77	.0030	1.225	1.276
#1	2.468	.6054	11.76	.0041	1.222	1.274
#2	2.441	.6172	11.77	.0019	1.229	1.277

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1604	.0089	.00169	2.387	.00091	.00668
#1	.1540	.0068	.00205	2.378	.00062	.00661
#2	.1669	.0110	.00134	2.397	.00121	.00675

Int. Std.	Sc3572
Units	Cts/S
Avg	140.95
#1	140.99
#2	140.91

Method: 2009A Sample Name: K0911353-001 Operator: JC
Comment: (182069) (120709A)
Run Time: 12/07/09 10:24 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0465	-.0166	.0049	.10475	.00006	.1361
#1	.0386	-.0170	.0026	.10511	.00007	.1367
#2	.0544	-.0162	.0073	.10439	.00005	.1354

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1058	129.1	-.0004	.0031	.0008	1.202
#1	.1051	129.2	.0004	.0031	.0004	1.200
#2	.1065	129.1	-.0012	.0032	.0011	1.203

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114	38.88	1.3616	.0064	.0045	5.366
#1	.0145	38.90	1.3669	.0073	.0042	5.379
#2	.0082	38.86	1.3563	.0056	.0048	5.354

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	-.0005	151.8	-.0004	.0017	.5869
#1	-.0047	-.0015	152.1	-.0004	.0037	.5843
#2	.0143	.0004	151.6	-.0004	-.0002	.5895

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4959	12.50	.00119	.0150	.05069	1.2127
#1	.4962	12.49	.00068	.0388	.05100	1.2140
#2	.4956	12.51	.00171	-.0089	.05038	1.2113

Int. Std.	Sc3572
Units	Cts/S
Avg	138.55
#1	138.56
#2	138.53

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/07/09 10:27 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.841	.0017	-.0067	2.4501	.04946	-.0166
Stddev	.018	.0219	.0134	.0076	.00031	.0001
%RSD	.3688	1265.	198.6	.30960	.62944	.5601
#1	4.828	.0172	-.0162	2.4447	.04968	-.0165
#2	4.853	-.0137	.0027	2.4554	.04924	-.0166
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	24.95	.0010	-.0011	-.0027	24.76
Stddev	.0005	.01	.0008	.0005	.0005	.03
%RSD	107.3	.0414	83.85	45.90	18.05	.1401
#1	-.0001	24.94	.0016	-.0008	-.0031	24.78
#2	-.0009	24.96	.0004	-.0015	-.0024	24.73
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	24.25	4.957	.0014	-.0007	9.430
Stddev	.0040	.07	.005	.0001	.0002	.022
%RSD	77.71	.2915	.1030	4.159	33.92	.2378
#1	.0079	24.30	4.960	.0015	-.0005	9.446
#2	.0023	24.20	4.953	.0014	-.0009	9.414
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174	.0020	9.476	-.0013	.0019	-.0004
Stddev	.0077	.0013	.029	.0065	.0004	.0005
%RSD	44.08	67.59	.3053	515.1	20.04	106.7
#1	.0120	.0029	9.496	.0033	.0022	-.0001
#2	.0228	.0010	9.455	-.0058	.0016	-.0008
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/07/09 10:27

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.856	2.441	.00143	-.0222	.47252	.49073
Stddev	.021	.002	.00121	.0121	.00302	.00183
%RSD	.2124	.0672	84.685	54.52	.63883	.37288
#1	9.870	2.440	.00228	-.0137	.47465	.49202
#2	9.841	2.442	.00057	-.0308	.47038	.48943
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	140.06
Stddev	.07
%RSD	.04696
#1	140.01
#2	140.10

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/07/09 10:30 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4496	2.331	2.426	.45729	.53133	.4769
Stddev	.0137	.028	.004	.00088	.00158	.0006
%RSD	3.040	1.189	.1790	.19273	.29706	.1278
#1	.4399	2.312	2.423	.45666	.53245	.4774
#2	.4592	2.351	2.429	.45791	.53022	.4765
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4989	2.383	.4962	.4926	.5089	.4943
Stddev	.0017	.014	.0003	.0024	.0031	.0119
%RSD	.3457	.5738	.0598	.4839	.6118	2.406
#1	.4976	2.373	.4960	.4910	.5111	.5027
#2	.5001	2.392	.4964	.4943	.5067	.4859
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.419	2.0061	.96744	.9742	.4887	4.712
Stddev	.012	.0006	.00535	.0101	.0012	.009
%RSD	.4823	.03235	.55288	1.038	.2479	.1858
#1	2.427	2.0057	.97122	.9671	.4895	4.706
#2	2.411	2.0066	.96366	.9814	.4878	4.718
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.365	.4894	.4796	2.380	.4854	.5003
Stddev	.003	.0031	.0073	.001	.0030	.0031
%RSD	.1326	.6360	1.526	.0524	.6231	.6121
#1	2.367	.4916	.4848	2.379	.4833	.4981
#2	2.362	.4872	.4745	2.381	.4876	.5025
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/07/09 10:30

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0564	.2754	.49904	4.892	.47949	.48154
Stddev	.0041	.0000	.00043	.034	.00132	.00092
%RSD	7.303	.0169	.08548	.7009	.27573	.19033
#1	-.0535	.2755	.49874	4.868	.48042	.48219
#2	-.0593	.2754	.49935	4.917	.47856	.48089
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	141.00
Stddev	.07
%RSD	.04796
#1	140.95
#2	141.04

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/07/09 10:33 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	.0047	-.0059	.00040	.00007
Stddev	.0172	.0035	.0188	.00056	.00006
%RSD	923.7	74.07	317.5	140.00	79.057
#1	.0103	.0022	.0074	.00079	.00011
#2	-.0141	.0072	-.0192	.00000	.00003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0002	.0003	-.0012	.0001
Stddev	.0000	.0002	.0024	.0006	.0003
%RSD	2.972	87.70	712.3	50.09	424.9
#1	-.0014	.0001	-.0014	-.0008	.0003
#2	-.0015	.0003	.0020	-.0016	-.0002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0008	.0026	.00115	.00070
Stddev	.0008	.0000	.0018	.00000	.00010
%RSD	67.36	4.312	68.30	.27728	14.898
#1	.0018	-.0008	.0039	.00115	.00078
#2	.0006	-.0008	.0014	.00115	.00063
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0010	.0034	.0122	.0020
Stddev	.0044	.0000	.0070	.0048	.0015
%RSD	65.20	4.820	204.6	39.22	74.17
#1	.0098	.0009	-.0015	.0088	.0010
#2	.0036	.0010	.0083	.0156	.0030
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/07/09 10:33

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0047	.0027	-.0004	-.0012
Stddev	.0009	.0018	.0008	.0016	.0087
%RSD	347.7	37.20	29.58	423.2	742.6
#1	-.0009	.0060	.0021	-.0015	-.0073
#2	.0004	.0035	.0033	.0007	.0050
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0046	-.00038	-.0033	.00014	.00012
Stddev	.0019	.00093	.0124	.00013	.00003
%RSD	41.53	243.40	378.9	92.986	26.655
#1	-.0060	.00028	-.0120	.00005	.00010
#2	-.0033	-.00105	.0055	.00023	.00014
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	136.92
Stddev	.22
%RSD	.15984
#1	137.07
#2	136.76

Service Request # K0911120 (Ti) (water)
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	✓	
2. ICV within 10 % of true value	✓	
3. ICB below MRL	✓	
4. CRI 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	✓	

Comments: ~~8~~ 3C 12/8/09
File Name: 120~~7~~09AICP02
Star Lims: ~~182069~~ 182230
Don't report Tl by 200.7 3C 12/8/09

Primary Review by 3C Date 12/7/09

Secondary Review by [illegible] Date 12/8/09

Method: 2009A Sample Name: Blank Operator:
Comment:
Run Time: 12/08/09 10:21 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}
Avg	.0015	.1176	.0394	-.00057
Stddev	.0001	.0489	.0205	.00006
%RSD	5.802	41.60	52.10	10.466
#1	.0016	.1522	.0249	-.00061
#2	.0015	.0830	.0540	-.00053

Elem	Be3130	B_2497	Cd2265	Ca2112
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}
Avg	-.00387	.3003	.0003	.5079
Stddev	.00012	.0411	.0001	.0274
%RSD	3.0565	13.68	24.37	5.398
#1	-.00396	.2712	.0004	.5272
#2	-.00379	.3293	.0003	.4885

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	.0981	-.0002	.0004	-.0290
Stddev	.0332	.0003	.0004	.0410
%RSD	33.86	149.5	89.05	141.4
#1	.1216	.0000	.0002	.0000
#2	.0746	-.0004	.0007	-.0581

Elem	Fe2599	Fe2714	Pb2203	Mg2025
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}
Avg	.0033	.0011	.0001	.1010
Stddev	.0006	.0001	.0000	.0059
%RSD	18.63	7.795	16.96	5.809
#1	.0037	.0011	.0001	.0969
#2	.0028	.0012	.0001	.1052

Elem	Mg2795	Mn2576	Mn2939	Mo2020
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}
Avg	.19488	.00240	-.0004	.0004
Stddev	.02149	.00042	.0002	.0001
%RSD	11.028	17.377	53.86	33.87
#1	.21007	.00211	-.0006	.0003
#2	.17968	.00270	-.0003	.0005

Elem	Ni2316	K_7664	Se1960	Ag3280
Line	231.604 {145}	766.490 { 44}	196.090 {171}	328.068 {102}
Avg	-.0005	.0069	-.0263	-.2322
Stddev	.0006	.2327	.0254	.0704
%RSD	121.4	3364.	96.76	30.30
#1	-.0001	-.1576	-.0443	-.2819
#2	-.0010	.1714	-.0083	-.1824

Sample Name: Blank Run Time: 12/08/09 10:21

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0031	.0010	.0112	.0001
Stddev	.0009	.0000	.0002	.0003
%RSD	29.03	1.483	2.153	243.2
#1	.0038	.0010	.0110	-.0001
#2	.0025	.0010	.0113	.0004

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0498	.1107	.00697	.0000
Stddev	.0098	.0235	.00009	.000
%RSD	19.65	21.21	1.2996	565.8
#1	.0567	.0941	.00690	-.0001
#2	.0429	.1273	.00703	.0001

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.30961	-.00489
Stddev	.04692	.00005
%RSD	15.156	.93006
#1	.27643	-.00486
#2	.34279	-.00493

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	131.34
Stddev	.02
%RSD	.01259
#1	131.35
#2	131.33

12/8/09
12/8/09

Method: 2009A Sample Name: STDB ICP6-87-A Operator:
Comment:
Run Time: 12/08/09 10:24 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	.1473	5.1968	.98650	56.64
Stddev	.0000	.0159	.00200	.10
%RSD	.0047	.30651	.20306	.1710
#1	.1473	5.1856	.98508	56.57
#2	.1473	5.2081	.98792	56.71

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	1.462	54.62	1.588	227.5
Stddev	.004	.10	.002	1.1
%RSD	.2750	.1779	.1522	.4697
#1	1.459	54.69	1.587	228.3
#2	1.465	54.55	1.590	226.8

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	6.390	47.66	96.98	368.82
Stddev	.017	.20	.17	2.24
%RSD	.2580	.4146	.1793	.60672
#1	6.402	47.52	96.85	370.40
#2	6.378	47.80	97.10	367.24

Elem	Sr4077
Line	407.771 { 82}
Avg	16.132
Stddev	.010
%RSD	.06206
#1	16.125
#2	16.139

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	133.23
Stddev	.07
%RSD	.05316
#1	133.28
#2	133.18

Method: 2009A Sample Name: STDA ICP6-X1-C Operator:
Comment:
Run Time: 12/08/09 10:27 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	16.41	11.69	42.05	.5414
Stddev	.09	.03	.15	.0127
%RSD	.5423	.2876	.3668	2.351
#1	16.35	11.66	42.16	.5324
#2	16.47	11.71	41.94	.5504

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	62.57	.2041	.3295	24.69
Stddev	.01	.0046	.0081	.03
%RSD	.0183	2.255	2.470	.1051
#1	62.56	.2009	.3238	24.71
#2	62.57	.2074	.3353	24.67

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.6806	.1718	2276.1	5.1436
Stddev	.0018	.0042	2.3	.1279
%RSD	.2646	2.429	.10019	2.4857
#1	.6793	.1689	2274.5	5.0532
#2	.6819	.1748	2277.7	5.2340

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.2609	.3057	10.20	26.14
Stddev	.0075	.0068	.05	.19
%RSD	2.870	2.233	.5265	.7238
#1	.2556	.3009	10.16	26.01
#2	.2662	.3105	10.23	26.27

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.1689	.3342	.3096	.36312
Stddev	.0043	.0074	.0089	.00532
%RSD	2.530	2.210	2.889	1.4657
#1	.1658	.3290	.3032	.35935
#2	.1719	.3394	.3159	.36688

Elem	Tl1908
Line	190.864 {176}
Avg	.1491
Stddev	.0039
%RSD	2.645
#1	.1463
#2	.1519

Sample Name: STDA Run Time: 12/08/09 10:27

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	132.80
Stddev	2.54
%RSD	1.9140
#1	134.59
#2	131.00

Method: 2009A Sample Name: ICV1 ICP6-83-B Operator:
Comment:
Run Time: 12/08/09 10:30 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.987	2.504	2.471	5.2130	.12688	.0023
Stddev	.001	.018	.001	.0480	.00006	.0022
%RSD	.0277	.7114	.0473	.92147	.04486	94.58
#1	4.986	2.516	2.470	5.1790	.12684	.0039
#2	4.988	2.491	2.472	5.2470	.12692	.0008
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.200	12.63	.5011	1.236	.6191	2.526
Stddev	.009	.09	.0022	.008	.0064	.005
%RSD	.7329	.6805	.4426	.6452	1.032	.1927
#1	1.194	12.57	.4995	1.230	.6146	2.522
#2	1.206	12.69	.5027	1.241	.6236	2.529
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.413	12.74	1.2494	2.013	1.231	12.50
Stddev	.023	.03	.0063	.014	.009	.01
%RSD	.9708	.2397	.50100	.7153	.6990	.0982
#1	2.396	12.71	1.2450	2.003	1.225	12.49
#2	2.429	12.76	1.2539	2.024	1.237	12.51
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.485	.6284	12.37	.0055	1.237	1.231
Stddev	.029	.0052	.03	.0050	.005	.005
%RSD	1.160	.8347	.2039	89.64	.3893	.3886
#1	2.505	.6247	12.39	.0090	1.233	1.228
#2	2.464	.6321	12.35	.0020	1.240	1.234
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 12/08/09 10:30

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0865	.0133	1.9800	Q 2.335	-.00011	.00695
Stddev	.0111	.0010	.0010	.057	.00041	.00009
%RSD	12.86	7.769	.05301	2.447	375.51	1.2416
#1	-.0944	.0126	1.9807	2.295	-.00040	.00689
#2	-.0786	.0140	1.9792	2.375	.00018	.00701
Check ?	None	None	QC Pass	QC Fail	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	134.69
Stddev	.09
%RSD	.06956
#1	134.76
#2	134.63

Method: 2009A Sample Name: ICV1 Operator:
Comment:
Run Time: 12/08/09 10:33 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.022	2.465	2.467	5.1880	.12759	.0022
Stddev	.001	.031	.032	.0416	.00001	.0008
%RSD	.0193	1.249	1.279	.80201	.01147	34.65
#1	5.021	2.443	2.445	5.1585	.12758	.0016
#2	5.022	2.487	2.490	5.2174	.12760	.0027
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.192	12.80	.5003	1.232	.6215	2.547
Stddev	.009	.13	.0040	.004	.0009	.008
%RSD	.7573	.9817	.7988	.2884	.1515	.3203
#1	1.186	12.71	.4974	1.229	.6222	2.541
#2	1.198	12.89	.5031	1.234	.6209	2.553
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.412	12.84	1.2407	2.008	1.230	12.67
Stddev	.013	.01	.0005	.017	.004	.03
%RSD	.5190	.0652	.03832	.8683	.3565	.2444
#1	2.403	12.84	1.2404	1.996	1.227	12.69
#2	2.421	12.85	1.2411	2.021	1.233	12.65
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.500	.6390	12.45	.0022	1.249	1.225
Stddev	.020	.0034	.07	.0009	.002	.009
%RSD	.8051	.5370	.5367	38.86	.1581	.7638
#1	2.486	.6366	12.50	.0028	1.251	1.218
#2	2.514	.6414	12.41	.0016	1.248	1.231
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 12/08/09 10:33

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0987	.0138	1.9829	Q 2.343	-.00037	.00690
Stddev	.0004	.0025	.0037	.007	.00044	.00011
%RSD	.4090	17.76	.18460	.3080	118.62	1.6238
#1	-.0990	.0156	1.9803	2.348	-.00068	.00698
#2	-.0984	.0121	1.9855	2.338	-.00006	.00682
Check ?	None	None	QC Pass	QC Fail	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	135.32
Stddev	.08
%RSD	.05879
#1	135.26
#2	135.37

SC 12/8/09

Method: 2009A Sample Name: ICVB1 ICP6-XO-C Operator:
Comment:
Run Time: 12/08/09 10:36 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.032	.0015	-.0044	.00307	.00012	2.052
Stddev	.031	.0096	.0013	.00049	.00004	.004
%RSD	2.971	635.2	29.25	15.886	30.375	.1999
#1	1.053	.0083	-.0053	.00341	.00015	2.049
#2	1.010	-.0053	-.0035	.00272	.00010	2.055
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	Q 5.275	.0040	.0009	.0017	10.20
Stddev	.0000	.010	.0001	.0002	.0021	.01
%RSD	1.683	.1981	2.464	18.78	118.8	.1463
#1	.0008	5.282	.0039	.0008	.0032	10.21
#2	.0008	5.267	.0040	.0010	.0003	10.19
Check ?	None	QC Fail	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%

See Recur
x 12/14/09

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	5.1358	10.21	.0125	.0013	.0515
Stddev	.0021	.0013	.01	.0062	.0003	.0005
%RSD	290.5	.02533	.0672	49.82	21.29	1.003
#1	-.0008	5.1349	10.20	.0169	.0015	.0512
#2	.0022	5.1368	10.21	.0081	.0011	.0519
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0005	.0494	5.022	-.0012	.0038
Stddev	.0115	.0007	.0004	.004	.0004	.0004
%RSD	278.6	156.4	.7657	.0798	31.27	10.96
#1	-.0040	.0000	.0491	5.024	-.0015	.0041
#2	.0123	.0010	.0497	5.019	-.0009	.0036
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 12/08/09 10:36

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.096	5.209	.00269	-.0098	Q 2.1231	1.9831
Stddev	.011	.000	.00028	.0106	.0221	.0009
%RSD	.2263	.0042	10.389	108.2	1.0418	.04333
#1	5.088	5.210	.00249	-.0023	2.1075	1.9837
#2	5.104	5.209	.00288	-.0173	2.1388	1.9825
Check ?	QC Pass	QC Pass	None	None	QC Fail	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	136.11
Stddev	.27
%RSD	.20047
#1	135.91
#2	136.30

Method: 2009A Sample Name: ICVB1 Recun Operator:
Comment:
Run Time: 12/08/09 10:39 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9886	-.0160	-.0148	.00262	.00009	2.029
Stddev	.0358	.0221	.0084	.00011	.00001	.004
%RSD	3.624	138.4	56.85	4.1931	9.4158	.1824
#1	1.014	-.0316	-.0089	.00269	.00010	2.027
#2	.9633	-.0003	-.0208	.00254	.00008	2.032
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	5.150	.0023	.0013	.0018	10.07
Stddev	.0001	.013	.0006	.0008	.0009	.05
%RSD	30.98	.2623	25.03	60.66	51.46	.4889
#1	.0003	5.141	.0027	.0007	.0025	10.11
#2	.0005	5.160	.0019	.0018	.0012	10.04
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	5.0667	10.10	.0031	.0015	.0436
Stddev	.0029	.0186	.01	.0004	.0010	.0351
%RSD	78.41	.36679	.0949	12.94	63.26	80.36
#1	-.0058	5.0536	10.10	.0034	.0022	.0188
#2	-.0017	5.0799	10.09	.0028	.0008	.0684
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089	-.0003	.0466	4.969	-.0010	.0025
Stddev	.0105	.0041	.0029	.003	.0004	.0010
%RSD	118.9	1597.	6.260	.0565	43.31	39.88
#1	.0014	.0027	.0486	4.967	-.0013	.0018
#2	.0163	-.0032	.0445	4.971	-.0007	.0032
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 12/08/09 10:39

Rerun

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.090	5.163	.00335	-.0010	2.0870	1.9575
Stddev	.020	.013	.00088	.0000	.0059	.0054
%RSD	.3961	.2560	26.133	.0599	.28037	.27468
#1	5.104	5.154	.00397	-.0010	2.0911	1.9613
#2	5.075	5.173	.00273	-.0010	2.0829	1.9537
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	135.55
Stddev	.38
%RSD	.28356
#1	135.28
#2	135.82

Method: 2009A Sample Name: ICB Operator:
Comment:
Run Time: 12/08/09 10:43 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0071	-.0321	-.0083	-.00011	.00007
Stddev	.0009	.0257	.0013	.00022	.00001
%RSD	12.97	79.96	15.19	207.49	13.298
#1	-.0077	-.0139	-.0074	.00005	.00008
#2	-.0064	-.0502	-.0092	-.00026	.00006
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.0001	.0021	.0004	-.0006
Stddev	.0007	.0001	.0009	.0011	.0002
%RSD	23.90	87.09	44.97	279.4	38.03
#1	.0032	.0001	.0028	.0012	-.0004
#2	.0023	.0002	.0014	-.0004	-.0008
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.0074	-.0049	.00098	.00267
Stddev	.0019	.0047	.0058	.00019	.00197
%RSD	117.2	63.02	118.8	19.662	73.655
#1	.0003	.0108	-.0090	.00112	.00407
#2	.0030	.0041	-.0008	.00085	.00128
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0018	.0068	.0020	-.0003
Stddev	.0014	.0008	.0064	.0096	.0013
%RSD	137.8	46.43	93.50	471.7	417.8
#1	.0000	.0012	.0113	-.0047	.0006
#2	.0020	.0024	.0023	.0088	-.0013
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: ICB Run Time: 12/08/09 10:43

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0005	-.0028	.0007	.0020
Stddev	.0031	.0018	.0009	.0005	.0119
%RSD	386.0	376.1	31.10	66.94	587.7
#1	-.0014	.0008	-.0034	.0004	.0105
#2	.0030	-.0017	-.0022	.0010	-.0064
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.00045	-.0126	-.00080	.00037
Stddev	.0008	.00105	.0040	.00024	.00001
%RSD	141.6	231.03	31.58	29.884	3.9652
#1	-.0011	-.00119	-.0155	-.00097	.00038
#2	.0000	.00029	-.0098	-.00063	.00036
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	132.07
Stddev	.12
%RSD	.08981
#1	131.99
#2	132.16

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/08/09 10:47 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.007	-.0209	-.0084	2.4639	.05006	-.0074
Stddev	.046	.0352	.0086	.0084	.00020	.0023
%RSD	.9161	168.3	102.5	.33938	.40386	30.98
#1	4.961	-.0291	-.0180	2.4626	.04982	-.0090
#2	4.975	-.0452	-.0030	2.4535	.04999	-.0096
#3	5.040	-.0401	.0005	2.4655	.05013	-.0053
#4	5.052	.0309	-.0131	2.4738	.05029	-.0055
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	25.42	.0008	-.0019	.0015	25.15
Stddev	.0005	.11	.0008	.0003	.0007	.18
%RSD	137.1	.4189	109.2	16.10	50.45	.7159
#1	-.0010	25.27	.0013	-.0021	.0021	24.99
#2	-.0001	25.43	-.0003	-.0015	.0016	25.05
#3	-.0003	25.50	.0004	-.0021	.0004	25.19
#4	.0000	25.49	.0016	-.0017	.0017	25.39
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0051	25.29	5.064	.0000	-.0010	10.12
Stddev	.0053	.11	.024	.0010	.0009	.04
%RSD	102.9	.4259	.4634	2747.	85.09	.3848
#1	-.0001	25.16	5.034	.0008	-.0015	10.11
#2	-.0097	25.37	5.056	.0004	.0001	10.12
#3	-.0097	25.24	5.080	.0003	-.0019	10.18
#4	-.0010	25.38	5.085	-.0014	-.0007	10.09
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 12/08/09 10:47

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	-.0002	9.935	-.0089	.0003	.0014
Stddev	.0070	.0026	.016	.0035	.0005	.0015
%RSD	84.75	1101.	.1615	38.98	158.8	106.8
#1	.0133	.0013	9.921	-.0069	.0002	.0029
#2	.0134	-.0020	9.934	-.0094	.0010	.0001
#3	.0079	.0026	9.958	-.0057	-.0002	.0025
#4	-.0015	-.0029	9.929	-.0136	.0003	.0001
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05	2.523	.00221	-.0207	.50492	.50811
Stddev	.03	.014	.00172	.0046	.00233	.00320
%RSD	.3031	.5600	77.704	22.27	.46072	.62966
#1	10.06	2.506	.00017	-.0183	.50176	.50399
#2	10.08	2.517	.00141	-.0154	.50690	.50721
#3	10.01	2.532	.00351	-.0237	.50642	.51027
#4	10.05	2.537	.00377	-.0253	.50460	.51098
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	134.42
Stddev	.42
%RSD	.31584
#1	134.53
#2	134.74
#3	134.62
#4	133.80

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/08/09 10:52 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4813	2.472	2.475	.46942	.55097	.5075
Stddev	.0150	.018	.018	.00234	.00447	.0018
%RSD	3.109	.7191	.7257	.49758	.81136	.3525
#1	.4793	2.460	2.451	.47264	.55766	.5069
#2	.5014	2.486	2.475	.46762	.54889	.5097
#3	.4796	2.453	2.480	.46779	.54838	.5055
#4	.4651	2.487	2.494	.46965	.54895	.5080
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4928	2.535	.4947	.4959	.5046	.4941
Stddev	.0017	.010	.0039	.0021	.0039	.0061
%RSD	.3516	.4066	.7800	.4318	.7746	1.227
#1	.4951	2.535	.5002	.4991	.5019	.5031
#2	.4909	2.548	.4915	.4947	.5007	.4915
#3	.4922	2.532	.4926	.4949	.5090	.4914
#4	.4929	2.524	.4947	.4947	.5067	.4903
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.486	2.0629	.96395	.9898	.4975	5.066
Stddev	.017	.0043	.00843	.0047	.0040	.039
%RSD	.6854	.20848	.87502	.4744	.7979	.7645
#1	2.499	2.0640	.97523	.9923	.5032	5.096
#2	2.461	2.0665	.96139	.9830	.4939	5.084
#3	2.488	2.0646	.96415	.9905	.4963	5.076
#4	2.495	2.0567	.95503	.9933	.4966	5.009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 12/08/09 10:52

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.497	.5077	.4931	2.473	.4969	.4950
Stddev	.012	.0026	.0033	.019	.0026	.0017
%RSD	.4807	.5116	.6720	.7604	.5165	.3471
#1	2.511	.5075	.4963	2.496	.5007	.4968
#2	2.484	.5108	.4938	2.465	.4953	.4933
#3	2.503	.5079	.4938	2.479	.4963	.4938
#4	2.491	.5045	.4884	2.452	.4953	.4960
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0926	.2906	.49332	4.870	.51653	.50592
Stddev	.0119	.0033	.00431	.029	.00147	.00534
%RSD	12.83	1.145	.87311	.5996	.28536	1.0557
#1	-.0878	.2931	.49949	4.880	.51818	.51384
#2	-.1088	.2885	.49277	4.850	.51737	.50436
#3	-.0930	.2870	.48963	4.843	.51538	.50294
#4	-.0808	.2938	.49141	4.906	.51521	.50252
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	135.42
Stddev	1.01
%RSD	.74319
#1	134.04
#2	136.39
#3	135.88
#4	135.36

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/08/09 10:58 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0096	-.0020	-.0107	-.00020	.00010
Stddev	.0038	.0191	.0013	.00003	.00003
%RSD	39.90	955.8	11.81	16.883	27.000
#1	-.0123	.0115	-.0116	-.00018	.00008
#2	-.0069	-.0155	-.0098	-.00022	.00012
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0001	.0021	-.0008	.0004
Stddev	.0001	.0009	.0003	.0008	.0009
%RSD	8.784	813.0	15.07	101.8	241.5
#1	.0010	.0007	.0023	-.0013	.0011
#2	.0012	-.0005	.0019	-.0002	-.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0035	.0009	.00105	.00168
Stddev	.0004	.0013	.0054	.00008	.00040
%RSD	39.29	37.40	606.3	7.8879	23.985
#1	.0013	.0045	.0047	.00111	.00196
#2	.0007	.0026	-.0029	.00099	.00139
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0061	.0004	-.0129	-.0014	.0008
Stddev	.0015	.0005	.0094	.0010	.0015
%RSD	24.47	130.2	73.35	70.43	175.9
#1	.0072	.0000	-.0062	-.0020	-.0002
#2	.0050	.0008	-.0196	-.0007	.0019
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/08/09 10:58

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	-.0074	.0002	.0015	.0012
Stddev	.0009	.0040	.0000	.0023	.0074
%RSD	67.35	53.88	4.202	159.8	637.9
#1	-.0021	-.0046	.0002	.0031	.0064
#2	-.0007	-.0103	.0002	-.0002	-.0041
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0019	-.00107	-.0112	-.00038	.00034
Stddev	.0016	.00011	.0019	.00092	.00005
%RSD	86.45	10.415	17.40	246.09	15.209
#1	.0007	-.00115	-.0098	.00028	.00037
#2	.0030	-.00099	-.0126	-.00103	.00030
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	132.61
Stddev	.34
%RSD	.25483
#1	132.37
#2	132.85

Method: 2009A Sample Name: CRI ICP6-80-A Operator:
Comment:
Run Time: 12/08/09 11:01 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0446	.0305	.0772	.00512	.00542	.0532
Stddev	.0025	.0054	.0021	.00038	.00007	.0006
%RSD	5.555	17.68	2.659	7.4813	1.3491	1.176
#1	.0428	.0267	.0787	.00540	.00536	.0537
#2	.0463	.0343	.0758	.00485	.00547	.0528
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	100.0%	100.0%	100.00%	100.00%	100.0%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.0567	.0038	.0103	.0119	.0203
Stddev	.0004	.0064	.0003	.0002	.0003	.0001
%RSD	7.590	11.36	6.799	1.457	2.629	.6152
#1	.0051	.0612	.0036	.0102	.0117	.0202
#2	.0046	.0521	.0040	.0104	.0121	.0204
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0451	.02178	.00464	.0100	.0206	.4115
Stddev	.0030	.00017	.00008	.0005	.0013	.0076
%RSD	6.642	.76047	1.6692	4.555	6.378	1.852
#1	.0472	.02167	.00469	.0104	.0197	.4062
#2	.0430	.02190	.00458	.0097	.0215	.4169
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	100.0%	100.00%	100.00%	100.0%	100.0%	100.0%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0853	.0073	.2175	.0422	.0084	.0115
Stddev	.0144	.0030	.0007	.0065	.0018	.0011
%RSD	16.87	40.40	.3422	15.33	21.04	9.839
#1	.0751	.0094	.2180	.0376	.0097	.0123
#2	.0954	.0052	.2169	.0468	.0072	.0107
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sample Name: CRI Run Time: 12/08/09 11:01

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1821	.4084	.00907	.1543	.01038	.00957
Stddev	.0011	.0017	.00180	.0024	.00020	.00000
%RSD	.6229	.4245	19.804	1.562	1.9124	.00120
#1	.1829	.4072	.01034	.1560	.01024	.00957
#2	.1813	.4096	.00780	.1526	.01052	.00957
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	100.0%	100.0%	100.00%	100.0%	100.00%	100.00%

Int. Std.	Sc3572
Units	Cts/S
Avg	135.31
Stddev	.38
%RSD	.27783
#1	135.57
#2	135.04

Method: 2009A Sample Name: ICSA ICP6-82-A Operator:
Comment:
Run Time: 12/08/09 11:04 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	550.2	.0291	-.0035	-.00113	.00023	-.0434
Stddev	.2	.0060	.0098	.00043	.00002	.0032
%RSD	.0293	20.73	279.9	38.388	8.5588	7.349
#1	550.3	.0334	-.0104	-.00082	.00022	-.0457
#2	550.1	.0249	.0034	-.00143	.00025	-.0412
Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0062	492.3	-.0042	-.0001	.0014	197.9
Stddev	.0005	1.4	.0031	.0007	.0024	.0
%RSD	8.641	.2907	75.52	516.8	169.8	.0135
#1	-.0066	491.3	-.0064	-.0006	-.0003	197.9
#2	-.0059	493.3	-.0019	.0003	.0031	197.9
Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0096	521.4	.00231	-.0091	-.0003	-.0285
Stddev	.0100	.6	.00028	.0014	.0007	.0071
%RSD	103.9	.1192	12.203	15.21	241.3	24.80
#1	-.0026	520.9	.00211	-.0081	.0002	-.0335
#2	-.0167	521.8	.00250	-.0101	-.0007	-.0235
Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0138	.0030	.1025	-.0339	-.0039	-.0004
Stddev	.0278	.0007	.0025	.0042	.0029	.0008
%RSD	200.9	24.89	2.471	12.45	75.02	217.4
#1	.0058	.0035	.1043	-.0309	-.0018	.0002
#2	-.0335	.0025	.1007	-.0369	-.0059	-.0009
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 12/08/09 11:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	-.0205	.05782	-.0579	.01531	.06364
Stddev	.0094	.0028	.00151	.0035	.00020	.00018
%RSD	687.1	13.77	2.6122	6.018	1.2925	.28791
#1	-.0080	-.0225	.05675	-.0604	.01517	.06377
#2	.0053	-.0185	.05888	-.0554	.01545	.06351
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	124.02
Stddev	.25
%RSD	.20325
#1	123.84
#2	124.20

Method: 2009A Sample Name: ICSAB JCP6-75-A Operator:
Comment:
Run Time: 12/08/09 11:07 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	536.7	1.019	-.0029	.45109	.54693	.0237
Stddev	3.8	.008	.0060	.00080	.00041	.0051
%RSD	.7021	.7719	208.0	.17814	.07493	21.41
#1	539.4	1.013	.0014	.45052	.54722	.0273
#2	534.1	1.024	-.0071	.45166	.54664	.0201
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8918	482.1	.4706	.4556	.4549	194.1
Stddev	.0040	3.8	.0022	.0027	.0001	.2
%RSD	.4433	.7892	.4696	.5964	.0165	.1163
#1	.8890	479.4	.4721	.4537	.4548	194.3
#2	.8946	484.8	.4690	.4576	.4549	193.9
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9213	515.2	.43883	-.0087	.8973	-.0851
Stddev	.0070	.4	.00079	.0044	.0001	.0139
%RSD	.7603	.0738	.18109	51.24	.0103	16.36
#1	.9263	515.4	.43827	-.0118	.8973	-.0752
#2	.9164	514.9	.43939	-.0055	.8974	-.0949
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081	.9524	.0385	-.0252	.4905	.8705
Stddev	.0029	.0061	.0004	.0033	.0058	.0014
%RSD	35.55	.6381	.9480	13.01	1.177	.1581
#1	.0102	.9567	.0383	-.0275	.4946	.8695
#2	.0061	.9481	.0388	-.0229	.4865	.8715
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 12/08/09 11:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0645	-.0119	.05689	-.0512	.01253	.06449
Stddev	.0204	.0008	.00038	.0538	.00014	.00012
%RSD	31.55	6.772	.66501	105.1	1.1429	.19213
#1	-.0789	-.0113	.05716	-.0132	.01263	.06441
#2	-.0501	-.0124	.05663	-.0892	.01243	.06458
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	124.15
Stddev	.33
%RSD	.26432
#1	123.92
#2	124.39

Method: 2009A Sample Name: ICSAB Operator:
Comment:
Run Time: 12/08/09 11:10 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	532.4	1.010	-.0155	.45125	.53889	-.0032
Stddev	1.3	.045	.0003	.00161	.00116	.0002
%RSD	.2414	4.497	1.781	.35667	.21514	7.237
#1	531.5	.9775	-.0157	.45011	.53807	-.0031
#2	533.3	1.042	-.0153	.45239	.53971	-.0034
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8961	478.2	.4714	.4563	.4650	190.5
Stddev	.0034	.6	.0043	.0014	.0018	1.7
%RSD	.3771	.1239	.9020	.3038	.3856	.9036
#1	.8938	478.6	.4684	.4553	.4663	189.2
#2	.8985	477.8	.4744	.4573	.4638	191.7
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9167	513.5	.43974	-.0092	.8937	-.0874
Stddev	.0090	.1	.00347	.0017	.0034	.0007
%RSD	.9839	.0192	.78954	18.58	.3852	.7908
#1	.9103	513.4	.43728	-.0080	.8912	-.0869
#2	.9231	513.6	.44219	-.0104	.8961	-.0879
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0172	.9477	.0416	-.0331	.4833	.8759
Stddev	.0078	.0028	.0008	.0000	.0000	.0051
%RSD	45.29	.2916	2.015	.0441	.0059	.5876
#1	-.0227	.9497	.0410	-.0331	.4833	.8722
#2	-.0117	.9458	.0421	-.0331	.4832	.8795
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 12/08/09 11:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0671	-.0115	.05812	-.0498	.01248	.06579
Stddev	.0065	.0005	.00153	.0054	.00018	.00053
%RSD	9.644	4.565	2.6369	10.76	1.4819	.80078
#1	-.0625	-.0119	.05921	-.0460	.01261	.06541
#2	-.0717	-.0112	.05704	-.0536	.01235	.06616
Check ?	None	None	None	None	None	None
Value						
Range						

SC
12/8/09

Int. Std.	Sc3572
Units	Cts/S
Avg	124.78
Stddev	.36
%RSD	.28736
#1	125.04
#2	124.53

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/08/09 11:13 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.981	-.0313	-.0079	2.4493	.04921	-.0111
Stddev	.032	.0102	.0067	.0078	.00015	.0018
%RSD	.6425	32.51	84.92	.31977	.30622	16.43
#1	4.959	-.0241	-.0031	2.4438	.04910	-.0098
#2	5.004	-.0384	-.0126	2.4548	.04931	-.0124
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	25.01	.0015	-.0018	.0017	24.67
Stddev	.0006	.13	.0007	.0002	.0002	.19
%RSD	99.55	.5040	45.01	11.94	9.091	.7755
#1	-.0002	24.92	.0010	-.0020	.0016	24.53
#2	-.0010	25.10	.0020	-.0017	.0018	24.80
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	25.32	4.958	.0009	-.0010	9.903
Stddev	.0027	.16	.026	.0013	.0002	.006
%RSD	912.5	.6330	.5275	148.9	21.81	.0623
#1	.0016	25.21	4.939	.0000	-.0009	9.907
#2	-.0022	25.43	4.976	.0018	-.0012	9.898
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0008	9.794	-.0093	-.0012	.0026
Stddev	.0239	.0001	.045	.0044	.0006	.0002
%RSD	2651.	18.01	.4555	47.52	46.43	6.011
#1	.0160	.0007	9.762	-.0062	-.0008	.0025
#2	-.0178	.0009	9.826	-.0125	-.0016	.0027
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/08/09 11:13

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.984	2.501	.00153	-.0161	.49518	.49550
Stddev	.059	.005	.00002	.0009	.00077	.00303
%RSD	.5898	.2060	1.1655	5.598	.15521	.61056
#1	9.943	2.498	.00152	-.0168	.49463	.49336
#2	10.03	2.505	.00155	-.0155	.49572	.49764
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	135.07
Stddev	.64
%RSD	.47226
#1	135.52
#2	134.62

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/08/09 11:16 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4836	2.482	2.488	.46867	.54737	.5085
Stddev	.0257	.045	.037	.00417	.00142	.0033
%RSD	5.322	1.800	1.493	.89042	.26021	.6422
#1	.4654	2.451	2.462	.46572	.54636	.5062
#2	.5018	2.514	2.515	.47162	.54838	.5108
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4912	2.533	.4943	.4937	.5035	.5015
Stddev	.0044	.002	.0062	.0082	.0024	.0040
%RSD	.8879	.0834	1.256	1.652	.4757	.7941
#1	.4881	2.534	.4899	.4880	.5051	.5043
#2	.4943	2.531	.4987	.4995	.5018	.4987
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.478	2.0664	.95719	.9812	.4974	5.105
Stddev	.041	.0054	.00648	.0191	.0039	.028
%RSD	1.670	.26176	.67658	1.946	.7859	.5524
#1	2.449	2.0626	.95261	.9677	.4946	5.085
#2	2.508	2.0702	.96177	.9947	.5002	5.125
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.499	.5150	.4985	2.442	.4971	.4902
Stddev	.032	.0056	.0005	.039	.0072	.0053
%RSD	1.271	1.092	.1026	1.614	1.457	1.090
#1	2.477	.5110	.4981	2.415	.4919	.4864
#2	2.522	.5190	.4989	2.470	.5022	.4939
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/08/09 11:16

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0768	.2899	.49280	4.861	.51653	.50512
Stddev	.0033	.0052	.00445	.023	.00080	.00323
%RSD	4.270	1.778	.90382	.4780	.15409	.63889
#1	-.0744	.2862	.48965	4.845	.51709	.50284
#2	-.0791	.2935	.49595	4.878	.51597	.50740
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	135.82
Stddev	.67
%RSD	.49394
#1	136.30
#2	135.35

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/08/09 11:19 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0089	-.0012	.0000	.00014	.00010
Stddev	.0284	.0216	.011	.00002	.00002
%RSD	319.8	1870.	531100.	14.632	15.768
#1	.0112	.0141	-.0074	.00012	.00011
#2	-.0289	-.0164	.0074	.00015	.00009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	.0059	.0004	-.0008
Stddev	.0006	.0003	.0022	.0023	.0006
%RSD	1632.	75.99	37.41	587.2	68.19
#1	-.0004	.0006	.0043	.0020	-.0012
#2	.0004	.0002	.0074	-.0012	-.0004
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0066	.0035	.00239	.00167
Stddev	.0023	.0007	.0009	.00026	.00009
%RSD	1999.	10.60	24.81	10.749	5.5329
#1	.0015	.0071	.0029	.00257	.00174
#2	-.0017	.0061	.0041	.00221	.00161
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0064	.0008	-.0109	.0007	-.0003
Stddev	.0036	.0007	.0043	.0057	.0004
%RSD	56.68	90.24	39.30	851.2	141.4
#1	.0090	.0013	-.0079	-.0034	-.0006
#2	.0038	.0003	-.0140	.0047	.0000
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/08/09 11:19

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	-.0001	-.0005	.0021	.0017
Stddev	.0039	.0048	.0005	.0023	.0066
%RSD	141.3	9085.	102.2	108.4	378.1
#1	.0000	.0033	-.0001	.0037	.0064
#2	-.0055	-.0035	-.0008	.0005	-.0029
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	.00032	.0028	-.00010	.00041
Stddev	.0012	.00086	.0040	.00076	.00001
%RSD	93.99	271.50	141.2	782.44	3.0958
#1	-.0004	.00093	.0056	.00044	.00042
#2	-.0021	-.00029	.0000	-.00064	.00040
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	131.57
Stddev	.32
%RSD	.23959
#1	131.80
#2	131.35

Method: 2009A Sample Name: K0911709-MB Operator: JC
Comment: (182230) (120809A)
Run Time: 12/08/09 11:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0188	-.0287	.0000	-.00008	.00009
#1	-.0184	-.0384	-.0021	-.00035	.00007
#2	-.0193	-.0190	.0021	.00019	.00010

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0003	-.0007	.0003	.0006
#1	.0016	.0006	-.0008	-.0006	.0004
#2	-.0004	.0000	-.0006	.0012	.0007

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0019	-.0049	.00083	-.00016
#1	-.0016	.0022	-.0011	.00095	-.00024
#2	.0029	.0016	-.0086	.00071	-.00008

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0003	-.0080	.0034	-.0038
#1	.0005	-.0006	-.0152	.0020	-.0036
#2	.0002	.0012	-.0009	.0047	-.0040

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0024	-.0057	-.0010	.0009	.2334
#1	.0017	-.0053	-.0022	.0000	.2372
#2	.0032	-.0062	.0003	.0017	.2296

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0031	.00136	-.0083	-.00124	.00001
#1	.0027	.00078	.0014	-.00200	.00003
#2	.0034	.00194	-.0179	-.00049	-.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	133.57
#1	132.88
#2	134.26

Method: 2009A Sample Name: LCSW Operator: JC
Comment: K0911709 (182230) (120809A)
Run Time: 12/08/09 11:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.974	2.512	2.507	5.1675	.12673	1.031
#1	4.973	2.503	2.499	5.1617	.12649	1.032
#2	4.975	2.522	2.515	5.1734	.12697	1.029

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.200	12.68	.4974	1.228	.6251	2.520
#1	1.197	12.67	.4959	1.229	.6270	2.522
#2	1.202	12.69	.4989	1.228	.6233	2.518

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.406	12.83	1.2415	1.009	1.222	12.47
#1	2.404	12.81	1.2404	1.006	1.221	12.43
#2	2.409	12.85	1.2425	1.011	1.224	12.50

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.497	.6265	12.34	-.0050	1.225	1.208
#1	2.493	.6285	12.31	-.0062	1.224	1.206
#2	2.502	.6245	12.37	-.0038	1.226	1.210

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1268	.0537	.00110	2.338	.00044	.00665
#1	.1250	.0529	.00174	2.294	.00083	.00659
#2	.1285	.0544	.00045	2.383	.00005	.00671

Int. Std.	Sc3572
Units	Cts/S
Avg	135.75
#1	135.67
#2	135.84

Method: 2009A Sample Name: K0911709-001 Operator: JC
Comment: (182230) (120809A)
Run Time: 12/08/09 11:28 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.171	.2475	5.051	.04696	.00026	16.29
#1	1.161	.2344	5.015	.04717	.00025	16.32
#2	1.181	.2606	5.087	.04675	.00028	16.25

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3653	51.54	1.702	.0168	.3033	5.054
#1	.3647	51.59	1.701	.0172	.3048	5.082
#2	.3660	51.49	1.703	.0165	.3018	5.025

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.049	3.4261	.10710	.1235	.3476	82.23
#1	7.042	3.4360	.10719	.1244	.3493	82.37
#2	7.056	3.4163	.10701	.1226	.3459	82.08

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>90.00	.0205	^ *****	1.378	.0141	9.914
#1	>90.00	.0199	^ -----	1.384	.0135	9.908
#2	>90.00	.0210	>180.0	1.372	.0147	9.921

See printout 12/8/09

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.823	12.67	.03853	.2372	.07731	.18035
#1	2.804	12.64	.03917	.2514	.07796	.18082
#2	2.842	12.69	.03789	.2231	.07667	.17987

Int. Std.	Sc3572
Units	Cts/S
Avg	120.28
#1	120.15
#2	120.40

Method: 2009A Sample Name: K0911709-001D Operator: JC
Comment: (182230) (120809A)
Run Time: 12/08/09 11:32 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.165	.2537	5.061	.04702	.00032	16.37
#1	1.152	.2452	5.052	.04727	.00034	16.34
#2	1.179	.2621	5.071	.04677	.00029	16.40

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3404	51.37	1.721	.0172	.3002	5.119
#1	.3394	51.13	1.717	.0171	.3027	5.111
#2	.3414	51.61	1.725	.0173	.2977	5.128

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.102	3.4227	.10897	.1192	.3556	82.72
#1	7.081	3.4199	.10896	.1200	.3533	82.54
#2	7.123	3.4255	.10899	.1184	.3579	82.90

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>90.00	.0198	^ *****	1.386	.0132	9.944
#1	>90.00	.0199	^ -----	1.383	.0143	9.928
#2	>90.00	.0197	^ -----	1.390	.0121	9.960

Sed Dilution 3 digit

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.848	14.87	.03980	.2584	.07787	.18247
#1	2.838	14.84	.04084	.2716	.07804	.18189
#2	2.858	14.91	.03876	.2452	.07771	.18305

Int. Std.	Sc3572
Units	Cts/S
Avg	119.41
#1	119.41
#2	119.40

Method: 2009A Sample Name: K0911709-001S Operator: JC
Comment: (182230) (120809A)
Run Time: 12/08/09 11:35 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.322	.6840	6.084	.55260	.04686	17.98
#1	3.303	.7005	6.093	.54530	.04674	17.96
#2	3.342	.6676	6.074	.55991	.04698	17.99

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3340	61.06	1.964	.4768	.5271	6.357
#1	.3326	60.88	1.963	.4738	.5274	6.341
#2	.3355	61.24	1.966	.4797	.5268	6.373

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.666	12.79	.54723	1.096	.8168	96.57
#1	8.615	12.85	.54679	1.092	.8143	96.23
#2	8.717	12.72	.54767	1.101	.8193	96.91

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>90.00	.0417	^ *****	1.446	.5122	10.61
#1	>90.00	.0412	>180.0	1.439	.5090	10.57
#2	>90.00	.0422	^ -----	1.453	.5154	10.66

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.906	17.64	.04210	1.131	.08224	.18351
#1	2.922	17.68	.04242	1.147	.08175	.18288
#2	2.890	17.61	.04178	1.115	.08272	.18414

Int. Std.	Sc3572
Units	Cts/S
Avg	117.22
#1	117.37
#2	117.07

Method: 2009A Sample Name: K0911709-001 Operator: JC
Comment: 1/100 (182230) (120809A)
Run Time: 12/08/09 11:45 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0094	-.0166	.0425	.00510	.00005
#1	-.0166	-.0056	.0431	.00712	.00005
#2	-.0022	-.0276	.0419	.00309	.00005

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1854	.0043	.5732	.0169	-.0006
#1	.1875	.0043	.5748	.0177	-.0012
#2	.1832	.0044	.5716	.0162	.0001

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0530	.0732	.03548	.00077
#1	.0036	.0544	.0752	.03583	.00081
#2	.0066	.0516	.0713	.03514	.00073

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0043	.8484	2.317	-.0006
#1	.0019	.0043	.8470	2.352	-.0006
#2	.0028	.0042	.8498	2.281	-.0006

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	55.76	.0076	-.0029	.0923	.0229
#1	56.33	.0063	-.0027	.0928	.0110
#2	55.18	.0089	-.0032	.0917	.0348

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1275	-.00086	-.0020	.00061	.00184
#1	.1286	-.00072	.0042	.00020	.00185
#2	.1265	-.00100	-.0083	.00103	.00184

Int. Std.	Sc3572
Units	Cts/S
Avg	134.32
#1	134.53
#2	134.11

Method: 2009A Sample Name: K0911709-001D Operator: JC
Comment: 1/100 (182230) (120809A)
Run Time: 12/08/09 11:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078	-.0407	.0354	.00108	.00008	.1908
#1	.0083	-.0411	.0312	.00098	.00008	.1882
#2	.0073	-.0403	.0395	.00118	.00008	.1934

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.5994	.0162	-.0001	.0045	.0538
#1	.0037	.5960	.0156	-.0006	.0045	.0529
#2	.0031	.6029	.0168	.0005	.0045	.0547

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0719	.03726	.00087	.0021	.0040	.8677
#1	.0749	.03724	.00087	.0022	.0035	.8695
#2	.0689	.03728	.00086	.0019	.0046	.8659

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.342	-.0017	57.20	.0085	-.0017	.0927
#1	2.321	-.0002	57.12	.0105	-.0019	.0919
#2	2.362	-.0032	57.29	.0066	-.0014	.0934

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	.1519	.00102	-.0061	.00084	.00186
#1	.0046	.1506	.00138	-.0151	.00097	.00187
#2	.0232	.1533	.00066	.0028	.00072	.00184

Int. Std.	Sc3572
Units	Cts/S
Avg	134.86
#1	135.08
#2	134.64

Method: 2009A Sample Name: K0911709-001S Operator: JC
Comment: 1/100 (182230) (120809A)
Run Time: 12/08/09 11:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088	.0063	.0577	.00625	.00052	.2075
#1	-.0108	.0266	.0532	.00601	.00052	.2051
#2	.0283	-.0139	.0621	.00649	.00053	.2099

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.7370	.0196	.0048	.0078	.0665
#1	.0041	.7426	.0195	.0054	.0070	.0671
#2	.0042	.7313	.0197	.0041	.0087	.0659

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0903	.13115	.00547	.0102	.0094	.9995
#1	.0948	.13154	.00549	.0093	.0095	1.009
#2	.0859	.13077	.00546	.0111	.0093	.9895

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.462	.0028	61.46	.0054	.0045	.1015
#1	2.479	.0040	61.76	.0058	.0043	.1026
#2	2.445	.0017	61.16	.0050	.0048	.1005

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0354	.1819	.00020	.0007	.00026	.00192
#1	.0436	.1831	.00024	-.0027	-.00060	.00196
#2	.0273	.1808	.00016	.0042	.00113	.00188

Int. Std.	Sc3572
Units	Cts/S
Avg	134.54
#1	134.30
#2	134.77

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/08/09 11:54 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.039	-.0114	-.0104	2.4757	.05073	-.0050
Stddev	.003	.0204	.0147	.0447	.00081	.0004
%RSD	.0660	178.7	140.5	1.8052	1.5941	8.502
#1	5.037	.0030	-.0001	2.4441	.05015	-.0047
#2	5.042	-.0258	-.0208	2.5073	.05130	-.0053
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	25.37	.0006	-.0009	.0013	25.40
Stddev	.0001	.02	.0008	.0008	.0004	.37
%RSD	16.73	.0788	137.8	89.10	29.48	1.449
#1	-.0004	25.35	.0000	-.0015	.0016	25.14
#2	-.0006	25.38	.0012	-.0003	.0011	25.66
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0105	25.25	5.083	-.0004	-.0006	10.04
Stddev	.0070	.01	.100	.0000	.0010	.05
%RSD	66.44	.0347	1.973	6.274	155.7	.5396
#1	-.0154	25.24	5.012	-.0003	.0001	9.998
#2	-.0056	25.26	5.154	-.0004	-.0013	10.07
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073	.0033	9.980	-.0112	-.0003	.0018
Stddev	.0009	.0001	.140	.0022	.0010	.0005
%RSD	12.79	4.420	1.405	20.04	325.8	25.51
#1	.0079	.0032	9.881	-.0127	-.0010	.0022
#2	.0066	.0034	10.08	-.0096	.0004	.0015
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/08/09 11:54

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02	2.523	.00151	-.0323	.50783	.51444
Stddev	.06	.003	.00101	.0153	.00039	.00775
%RSD	.5806	.1128	66.507	47.37	.07629	1.5069
#1	9.984	2.521	.00080	-.0432	.50811	.50896
#2	10.07	2.525	.00222	-.0215	.50756	.51992
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	133.14
Stddev	1.81
%RSD	1.3608
#1	134.42
#2	131.86

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/08/09 11:57 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4687	2.480	2.476	.46607	.54429	.5035
Stddev	.0031	.026	.005	.00314	.00071	.0028
%RSD	.6674	1.070	.2201	.67400	.13083	.5499
#1	.4664	2.461	2.472	.46385	.54379	.5016
#2	.4709	2.499	2.480	.46829	.54479	.5055
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4867	2.493	.4914	.4891	.5024	.5005
Stddev	.0025	.003	.0038	.0049	.0000	.0081
%RSD	.5039	.1054	.7710	.9931	.0093	1.620
#1	.4850	2.495	.4887	.4857	.5024	.5062
#2	.4885	2.491	.4940	.4926	.5023	.4947
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.444	2.0511	.95951	.9746	.4908	5.003
Stddev	.012	.0044	.00649	.0149	.0031	.008
%RSD	.4811	.21582	.67653	1.527	.6277	.1656
#1	2.435	2.0542	.95492	.9640	.4886	4.997
#2	2.452	2.0480	.96410	.9851	.4930	5.009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.471	.4999	.5135	2.420	.4881	.4853
Stddev	.013	.0017	.0034	.021	.0004	.0039
%RSD	.5046	.3468	.6646	.8643	.0914	.8020
#1	2.479	.5011	.5111	2.406	.4885	.4826
#2	2.462	.4987	.5159	2.435	.4878	.4881
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/08/09 11:57

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0785	.2857	.48884	4.836	.51313	.49931
Stddev	.0058	.0063	.00034	.044	.00014	.00169
%RSD	7.347	2.190	.06866	.9167	.02655	.33905
#1	-.0826	.2901	.48907	4.804	.51323	.49811
#2	-.0744	.2812	.48860	4.867	.51303	.50050
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	135.85
Stddev	.27
%RSD	.19679
#1	136.04
#2	135.66

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/08/09 12:00 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	-.0240	-.0107	.00022	.00012	.0013
Stddev	.0143	.0287	.0021	.00025	.00000	.0007
%RSD	471.6	119.7	19.64	112.35	3.2219	50.52
#1	-.0071	-.0037	-.0092	.00040	.00011	.0008
#2	.0131	-.0443	-.0122	.00005	.00012	.0018
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0021	.0010	.0002	.0020	.0046
Stddev	.0002	.0034	.0005	.0001	.0007	.0001
%RSD	26.88	163.8	55.21	31.27	35.36	2.591
#1	.0009	.0045	.0006	.0003	.0025	.0047
#2	.0006	-.0003	.0014	.0002	.0015	.0045
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.00194	.00165	.0052	.0012	-.0007
Stddev	.0011	.00007	.00020	.0026	.0005	.0174
%RSD	51.22	3.5750	12.302	49.80	41.53	2390.
#1	.0028	.00199	.00179	.0070	.0015	.0115
#2	.0013	.00189	.00151	.0034	.0008	-.0130
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088	.0026	.0167	-.0016	.0002	.0017
Stddev	.0057	.0010	.0004	.0061	.0010	.0009
%RSD	65.29	39.63	2.270	380.8	565.5	52.09
#1	.0047	.0019	.0170	.0027	.0008	.0024
#2	.0129	.0034	.0164	-.0059	-.0005	.0011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 12/08/09 12:00

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0087	-.0026	.00035	.0035	-.00022	.00038
Stddev	.0025	.0007	.00121	.0089	.00027	.00000
%RSD	28.32	27.08	345.61	253.0	121.86	.50245
#1	-.0070	-.0031	.00121	-.0028	-.00040	.00038
#2	-.0105	-.0021	-.00051	.0098	-.00003	.00039
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	132.94
Stddev	.22
%RSD	.16516
#1	133.09
#2	132.78

Method: 2009A Sample Name: K0911120-MB Operator: JC
Comment: MS DIGEST 9/10 (182230) (120809A)
Run Time: 12/08/09 12:35 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0264	-.0080	.0021	-.00018	.00000
#1	-.0341	-.0131	.0009	-.00016	-.00001
#2	-.0188	-.0030	.0033	-.00021	.00002

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0001	.0055	.0016	-.0002
#1	.0002	.0002	.0032	.0013	-.0003
#2	.0006	-.0001	.0079	.0019	.0000

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0040	-.0039	.00033	-.00016
#1	.0013	.0040	-.0086	.00030	-.00018
#2	.0002	.0040	.0008	.00037	-.00014

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0013	-.0010	-.0115	.0010
#1	-.0003	.0011	.0040	-.0142	.0029
#2	.0001	.0016	-.0060	-.0088	-.0008

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0180	-.0104	-.0008	.0003	.3546
#1	.0192	-.0137	-.0011	.0013	.3435
#2	.0169	-.0071	-.0005	-.0006	.3657

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.00082	-.0041	-.00060	.00001
#1	.0041	.00025	-.0095	-.00060	.00003
#2	.0004	-.00190	.0014	-.00061	-.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	136.73
#1	135.49
#2	137.96

Method: 2009A Sample Name: LCSW Operator: JC
Comment: MS DIGEST 9/10 (182230) (120809A)
Run Time: 12/08/09 12:38 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	-.0168	.0151	.01667	.01851	.0190
#1	.0209	-.0231	.0086	.01682	.01856	.0191
#2	-.0079	-.0104	.0217	.01653	.01845	.0189

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171	.0056	.0195	.0169	.0167	.0012
#1	.0171	.0056	.0201	.0163	.0163	.0012
#2	.0170	.0056	.0188	.0175	.0171	.0012

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135	.00033	.01626	.0167	.0185	-.0222
#1	.0136	.00034	.01629	.0165	.0183	-.0150
#2	.0133	.00032	.01623	.0169	.0187	-.0295

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190	.0171	.0129	.0142	.0160	.0183
#1	.0277	.0180	.0127	.0142	.0151	.0169
#2	.0102	.0161	.0131	.0141	.0169	.0196

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3640	.0018	.01754	.0027	.00053	.01860
#1	.3670	.0015	.01725	.0041	.00035	.01858
#2	.3610	.0022	.01783	.0013	.00071	.01863

Int. Std.	Sc3572
Units	Cts/S
Avg	136.45
#1	136.68
#2	136.23

Method: 2009A Sample Name: K0911120-023 Operator: JC
Comment: MS DIGEST 9/10 (182230) (120809A)
Run Time: 12/08/09 12:41 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0376	-.0113	.00009	.00006	.0012
#1	.0039	-.0571	-.0021	.00027	.00005	.0013
#2	-.0032	-.0182	-.0205	-.00010	.00006	.0012

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0013	.0001	.0001	.0025	.0033
#1	.0003	.0008	.0006	-.0005	.0037	.0039
#2	.0000	.0019	-.0003	.0006	.0012	.0027

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0056	.00040	-.00026	-.0001	.0012	.0123
#1	-.0077	.00041	-.00025	-.0016	.0012	.0152
#2	-.0035	.00039	-.00028	.0015	.0012	.0094

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0142	-.0012	.0112	-.0076	-.0008	.0017
#1	-.0142	-.0025	.0027	-.0091	-.0026	.0020
#2	-.0142	.0002	.0197	-.0061	.0009	.0015

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4343	-.0003	-.00168	-.0094	-.00046	.00001
#1	.4284	.0014	-.00235	-.0162	-.00025	-.00003
#2	.4402	-.0021	-.00102	-.0026	-.00066	.00006

Int. Std.	Sc3572
Units	Cts/S
Avg	137.18
#1	137.11
#2	137.25

Method: 2009A Sample Name: K0911120-023L Operator: JC
Comment: MS DIGEST 9/10 X 1/5 (182230) (120809A)
Run Time: 12/08/09 12:44 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	-.0312	-.0033	.00005	-.00001	-.0001
#1	.0022	-.0283	-.0057	.00002	-.00003	-.0002
#2	.0215	-.0342	-.0009	.00008	.00001	.0000

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0018	.0000	-.0001	.0011	.0004
#1	.0003	-.0001	.0012	-.0002	.0016	.0005
#2	-.0003	.0036	-.0012	.0001	.0005	.0004

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	.00019	-.00014	.0011	.0002	.0109
#1	-.0026	.00019	-.00014	-.0001	-.0003	-.0135
#2	-.0056	.00019	-.00014	.0023	.0007	.0354

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	-.0030	.0135	-.0092	-.0012	.0013
#1	-.0061	-.0061	.0177	-.0083	-.0009	.0011
#2	.0007	.0000	.0093	-.0102	-.0015	.0015

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0903	-.0011	.00011	.0035	-.00090	.00002
#1	.0917	-.0040	-.00006	.0042	-.00116	-.00001
#2	.0889	.0017	.00029	.0028	-.00065	.00006

Int. Std.	Sc3572
Units	Cts/S
Avg	134.16
#1	133.82
#2	134.50

Method: 2009A Sample Name: K0911120-024 Operator: JC
Comment: MS DIGEST 9/10 (182230) (120809A)
Run Time: 12/08/09 12:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0065	-.0427	-.0107	-.00045	.00005
#1	.0042	-.0520	-.0104	-.00033	.00006
#2	-.0171	-.0334	-.0110	-.00056	.00005

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0002	.0138	.0001	-.0008
#1	.0011	-.0001	.0169	.0000	-.0005
#2	.0000	-.0002	.0107	.0001	-.0010

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0020	-.0035	.00168	-.00022
#1	-.0002	.0025	-.0015	.00162	-.00023
#2	.0013	.0016	-.0056	.00174	-.00021

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0007	.0425	.0047	.0010
#1	-.0016	.0011	.0290	-.0088	.0025
#2	-.0014	.0003	.0560	.0183	-.0004

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.3893	-.0112	-.0036	-.0001	.5929
#1	.3934	-.0141	-.0040	-.0002	.5819
#2	.3852	-.0082	-.0031	.0000	.6039

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0247	-.00110	-.0006	-.00056	.00005
#1	.0247	-.00128	-.0013	-.00146	.00006
#2	.0247	-.00092	.0001	.00035	.00005

Int. Std.	Sc3572
Units	Cts/S
Avg	137.08
#1	136.69
#2	137.48

Method: 2009A Sample Name: K0911120-024D Operator: JC
Comment: MS DIGEST 9/10 (182230) (120809A)
Run Time: 12/08/09 12:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0110	-.0026	-.0039	.00016	.00000
#1	-.0309	.0029	.0009	.00009	.00001
#2	.0090	-.0081	-.0086	.00023	-.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0001	.0110	.0035	-.0008
#1	.0025	-.0001	.0147	.0035	-.0013
#2	.0002	.0004	.0072	.0036	-.0002

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0167	-.0011	.00173	.00006
#1	.0050	.0164	-.0076	.00173	.00003
#2	.0039	.0169	.0055	.00174	.00010

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0040	.0617	-.0007	.0013
#1	.0025	.0038	.0553	.0020	.0013
#2	-.0009	.0043	.0682	-.0034	.0013

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.3985	-.0054	-.0030	.0013	.5633
#1	.3954	-.0049	-.0030	.0019	.5593
#2	.4015	-.0059	-.0029	.0007	.5673

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0262	-.00149	-.0026	-.00045	.00005
#1	.0267	-.00148	.0055	-.00032	.00004
#2	.0257	-.00151	-.0107	-.00059	.00005

Int. Std.	Sc3572
Units	Cts/S
Avg	137.48
#1	137.32
#2	137.63

Method: 2009A Sample Name: K0911120-024S Operator: JC
Comment: MS DIGEST 9/10 (182230) (120809A)
Run Time: 12/08/09 12:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130	-.0228	.0044	.01681	.01798	.0193
#1	.0253	-.0004	-.0015	.01693	.01799	.0185
#2	.0007	-.0452	.0104	.01669	.01796	.0201

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173	.0258	.0245	.0166	.0184	.0478
#1	.0173	.0216	.0244	.0167	.0180	.0477
#2	.0172	.0300	.0246	.0165	.0187	.0480

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	.00215	.01682	.0160	.0231	.0554
#1	.0050	.00209	.01681	.0158	.0227	.0633
#2	.0170	.00221	.01683	.0161	.0235	.0475

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0182	.3915	.0072	.0158	.0178
#1	-.0007	.0178	.3885	.0073	.0150	.0166
#2	.0034	.0187	.3945	.0070	.0165	.0191

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4703	.0310	.01682	.0000	-.00045	.01780
#1	.4731	.0296	.01780	-.0067	.00029	.01776
#2	.4674	.0323	.01583	.0067	-.00119	.01784

Int. Std.	Sc3572
Units	Cts/S
Avg	137.86
#1	137.98
#2	137.73

Method: 2009A Sample Name: RB Operator: JC
Comment: (182230) (120809A)
Run Time: 12/08/09 12:57 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	-.0249	-.0030	-.00011	.00002
#1	-.0006	-.0316	-.0009	-.00003	.00005
#2	-.0127	-.0182	-.0051	-.00018	.00000

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	-.0022	-.0015	.0001
#1	-.0009	.0007	-.0032	-.0017	-.0002
#2	.0016	.0001	-.0012	-.0013	.0003

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0008	.0013	.00003	-.00023
#1	.0035	.0006	.0012	.00007	-.00023
#2	.0037	.0009	.0013	-.00002	-.00024

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0008	-.0057	.0014	-.0015
#1	.0020	.0012	.0043	-.0047	-.0029
#2	-.0002	.0003	-.0157	.0074	.0000

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0086	-.0057	.0001	.0001	.0038
#1	.0096	-.0077	.0006	.0006	.0116
#2	.0076	-.0038	-.0005	-.0004	-.0041

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.00152	.0051	-.00040	.00000
#1	.0008	.00122	.0101	.00002	.00003
#2	.0027	.00183	.0000	-.00083	-.00002

Int. Std.	Sc3572
Units	Cts/S
Avg	130.60
#1	128.43
#2	132.77

Method: 2009A Sample Name: K0911549-MB Operator: JC
Comment: (182230) (120809A)
Run Time: 12/08/09 13:00 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0541	-.0086	-.00025	.00005	.0009
#1	.0136	-.0706	-.0080	-.00006	.00007	.0001
#2	-.0137	-.0376	-.0092	-.00043	.00002	.0017

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0006	-.0006	-.0007	.0003	-.0002
#1	.0002	.0010	-.0002	-.0011	.0021	-.0003
#2	.0005	.0001	-.0011	-.0004	-.0015	-.0001

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0053	.00009	-.00028	.0009	.0006	.0091
#1	.0013	.00008	-.00029	.0001	.0004	.0227
#2	-.0119	.00010	-.00026	.0016	.0007	-.0045

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0101	.0004	.0096	-.0063	-.0001	.0010
#1	-.0115	.0025	.0101	-.0076	.0001	.0008
#2	-.0088	-.0017	.0090	-.0050	-.0004	.0013

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0997	-.0018	.00012	-.0117	.00025	.00003
#1	.1064	-.0003	.00015	-.0097	.00007	.00003
#2	.0930	-.0033	.00009	-.0138	.00043	.00003

Int. Std.	Sc3572
Units	Cts/S
Avg	134.07
#1	133.83
#2	134.31

Method: 2009A Sample Name: LCSW Operator: JC
Comment: K0911549 (182230) (120809A)
Run Time: 12/08/09 13:03 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.917	2.481	2.506	5.1953	.12603	1.016
#1	4.915	2.482	2.497	5.1659	.12569	1.018
#2	4.919	2.479	2.516	5.2247	.12636	1.015

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.202	12.70	.4974	1.226	.6206	2.515
#1	1.193	12.70	.4954	1.220	.6230	2.499
#2	1.210	12.70	.4993	1.231	.6183	2.531

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.421	12.70	1.2223	1.000	1.222	12.34
#1	2.403	12.72	1.2144	.9904	1.216	12.31
#2	2.439	12.67	1.2302	1.010	1.228	12.36

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.493	.6221	12.22	-.0068	1.219	1.214
#1	2.475	.6224	12.18	-.0062	1.211	1.202
#2	2.510	.6218	12.25	-.0073	1.227	1.226

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	10.96	.00021	2.344	.00052	.00652
#1	.0133	10.98	.00101	2.311	.00029	.00650
#2	-.0135	10.94	-.00058	2.377	.00074	.00653

Int. Std.	Sc3572
Units	Cts/S
Avg	135.51
#1	135.95
#2	135.08

Method: 2009A Sample Name: CCVB Operator:
Comment:
Run Time: 12/08/09 13:06 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.923	-.0426	-.0135	2.4612	.04973	-.0091
Stddev	.043	.0072	.0063	.0084	.00003	.0009
%RSD	.8753	16.79	46.79	.33981	.06051	10.30
#1	4.954	-.0477	-.0180	2.4553	.04971	-.0085
#2	4.893	-.0376	-.0090	2.4671	.04975	-.0098
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	25.32	.0007	-.0017	.0003	24.79
Stddev	.0002	.04	.0011	.0003	.0011	.03
%RSD	281.0	.1480	148.8	16.41	397.8	.1342
#1	.0002	25.29	.0000	-.0015	-.0005	24.77
#2	-.0001	25.35	.0015	-.0019	.0011	24.81
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0046	25.26	4.989	.0033	-.0020	9.935
Stddev	.0042	.06	.002	.0008	.0027	.042
%RSD	91.19	.2490	.0341	23.84	138.8	.4258
#1	-.0016	25.22	4.990	.0038	.0000	9.965
#2	-.0076	25.30	4.988	.0027	-.0039	9.906
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0012	9.804	-.0060	.0006	.0030
Stddev	.0115	.0016	.031	.0024	.0022	.0006
%RSD	220.9	131.8	.3161	39.29	343.5	21.03
#1	.0133	.0001	9.826	-.0077	.0022	.0034
#2	-.0029	.0024	9.782	-.0044	-.0009	.0025
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 12/08/09 13:06

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09	2.511	.00003	-.0106	.50139	.50062
Stddev	.06	.002	.00048	.0029	.00207	.00156
%RSD	.6359	.0964	1477.5	27.48	.41188	.31194
#1	10.04	2.509	.00037	-.0085	.50285	.50173
#2	10.13	2.513	-.00031	-.0126	.49993	.49952
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	135.51
Stddev	.04
%RSD	.03152
#1	135.54
#2	135.48

Method: 2009A Sample Name: CCVA Operator:
Comment:
Run Time: 12/08/09 13:09 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4766	2.458	2.494	.46612	.53849	.5011
Stddev	.0086	.006	.015	.00225	.00230	.0013
%RSD	1.796	.2354	.5997	.48217	.42620	.2531
#1	.4705	2.454	2.483	.46453	.53687	.5002
#2	.4826	2.462	2.504	.46770	.54012	.5020
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4891	2.469	.4900	.4888	.5080	.4961
Stddev	.0024	.004	.0040	.0023	.0011	.0094
%RSD	.4934	.1643	.8197	.4611	.2262	1.894
#1	.4874	2.466	.4872	.4872	.5072	.5027
#2	.4908	2.472	.4928	.4904	.5088	.4894
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.412	2.0462	.95363	.9720	.4865	5.010
Stddev	.001	.0089	.00241	.0119	.0029	.039
%RSD	.0446	.43728	.25281	1.219	.5907	.7786
#1	2.413	2.0399	.95193	.9636	.4845	4.983
#2	2.411	2.0525	.95534	.9804	.4885	5.038
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.462	.5023	.5024	2.373	.4836	.4872
Stddev	.029	.0063	.0024	.004	.0025	.0040
%RSD	1.178	1.264	.4809	.1878	.5104	.8112
#1	2.441	.4978	.5007	2.369	.4819	.4844
#2	2.482	.5068	.5041	2.376	.4854	.4900
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 12/08/09 13:09

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0814	.2911	.48983	4.849	.51189	.49408
Stddev	.0058	.0001	.00229	.017	.00212	.00150
%RSD	7.072	.0178	.46662	.3422	.41501	.30286
#1	-.0774	.2910	.49145	4.837	.51038	.49302
#2	-.0855	.2911	.48822	4.861	.51339	.49514
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	136.79
Stddev	.09
%RSD	.06325
#1	136.73
#2	136.85

Method: 2009A Sample Name: CCB Operator:
Comment:
Run Time: 12/08/09 13:12 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0130	-.0430	-.0036	.00023	.00011
Stddev	.0088	.0113	.0038	.00031	.00004
%RSD	67.89	26.32	105.4	134.33	37.812
#1	-.0068	-.0510	-.0009	.00046	.00014
#2	-.0193	-.0350	-.0062	.00001	.00008
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0003	-.0032	-.0006	-.0003
Stddev	.0002	.0006	.0003	.0005	.0004
%RSD	14.86	244.9	9.796	91.68	153.7
#1	.0014	.0007	-.0034	-.0002	.0000
#2	.0011	-.0002	-.0030	-.0010	-.0006
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0048	-.0011	.00232	.00192
Stddev	.0005	.0004	.0042	.00005	.00032
%RSD	95.08	8.635	376.9	2.3391	16.886
#1	.0002	.0051	-.0041	.00236	.00215
#2	.0008	.0045	.0019	.00228	.00169
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0065	-.0003	-.0073	.0007	-.0013
Stddev	.0023	.0010	.0125	.0115	.0027
%RSD	35.05	309.5	172.1	1676.	212.8
#1	.0081	.0004	-.0162	-.0074	.0006
#2	.0049	-.0011	.0016	.0088	-.0031
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 12/08/09 13:12

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0073	-.0027	-.0015	.0002	-.0052
Stddev	.0030	.0015	.0019	.0013	.0033
%RSD	40.96	54.68	131.5	706.4	62.44
#1	.0094	-.0016	-.0028	-.0008	-.0029
#2	.0052	-.0037	-.0001	.0011	-.0076
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.00026	-.0062	-.00024	.00045
Stddev	.0016	.00133	.0029	.00069	.00001
%RSD	278.9	507.99	47.59	287.20	2.9598
#1	-.0006	-.00120	-.0041	.00025	.00046
#2	.0017	.00068	-.0083	-.00073	.00044
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	134.36
Stddev	.14
%RSD	.10320
#1	134.46
#2	134.26

Service Request # _K0911120_____
Calibration __121109BMS03_&_121209AMS03_____
QC in calibration_121109BMS03_____
QC Service Request # __K0911120_____
STARLIMS run # __182886_____

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. Cd Correction Applied		X	
15. ICSA and ICSAB in control			X
16. Serial dilution run			X
17. Post spike in control			X

Comments: MB Al rerun in run 121209AMS03. Needs Be rerun.

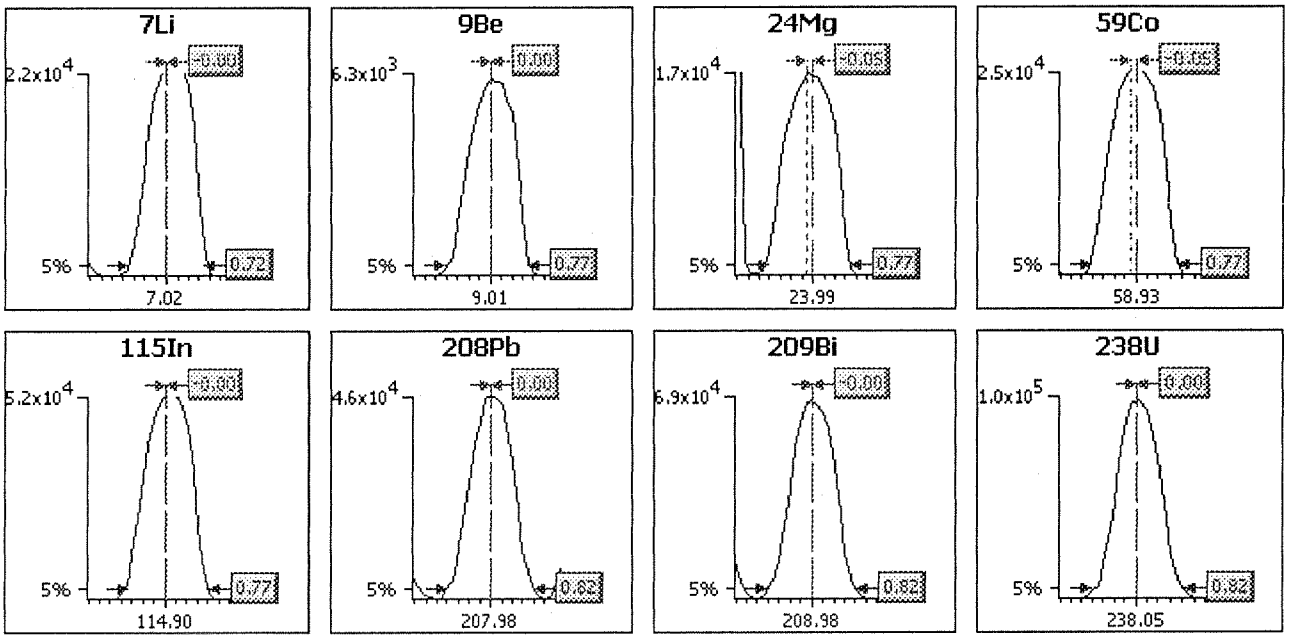
Primary Review by JDB Date 12/13/09
Secondary Review by ZC Date 12/14/09
R:\icp\misc\data review forms\icpms review form

Performance Report

Sample details
Acquired at : 12/11/2009 09:21:57 AM
Report name : Kelso Performance Report 2 [01/23/2008 04:49:11 PM]

Mass Calibration verification

Acquisition parameters
Sweeps : 100
Dwell : 1.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.72	-0.00
9Be	0.90	0.60	0.10	0.77	0.00
24Mg	0.90	0.60	0.10	0.77	-0.05
59Co	0.90	0.60	0.10	0.77	-0.05
115In	0.90	0.60	0.10	0.77	-0.00
208Pb	0.90	0.60	0.10	0.82	0.00
209Bi	0.90	0.60	0.10	0.82	-0.00
238U	0.90	0.60	0.10	0.82	0.00

Sample details
Acquired at : 12/11/2009 09:21:57 AM
Report name : Kelso Performance Report 2 [01/23/2008 04:49:11 PM]

Tune conditions

Major	
Extraction	-141
Lens 1	2.9
Focus	23.9
D1	-31.4
Pole Bias	-0.7
Hexapole Bias	1.1
Nebuliser	0.75
Sampling Depth	24

Minor	
Lens 2	-20.4
Lens 3	-176.5
Forward power	1247
Horizontal	103
Vertical	66
D2	-141
DA	-40.8
Cool	13.0
Auxiliary	0.87

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1500
PC Detector	3578

Add. Gases

Sensitivity and stability results

Acquisition parameters
Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	Countrate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	09:22:29 AM	0.250	22638.402	6118.058	17166.943	26182.650	52077.739	55506.689	950.550	47080.848
2	09:23:42 AM	0.250	23031.638	6181.101	17461.754	26261.878	52279.140	55750.423	925.547	47252.988
3	09:24:55 AM	0.500	22914.593	6218.126	17215.786	26215.745	52191.136	55579.632	957.550	47237.407
4	09:26:08 AM	0.000	23181.268	6277.166	17508.344	26385.736	52331.188	55697.853	947.549	47235.397
5	09:27:21 AM	0.250	23084.522	6223.880	17378.845	26102.670	52278.134	55861.854	953.550	47385.173
x		0.250	22970.085	6203.666	17346.334	26229.736	52231.468	55679.290	946.949	47238.363
σ		0.18	208.91	58.86	149.87	104.79	99.57	140.05	12.52	107.92
%RSD		70.711	0.909	0.949	0.864	0.400	0.191	0.252	1.322	0.228

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	Countrate	>1000	-	>1000
1	09:22:29 AM	69558.598	0.000	105621.78
2	09:23:42 AM	69767.439	0.000	105509.49
3	09:24:55 AM	69846.039	0.000	105709.80
4	09:26:08 AM	69657.098	0.000	105343.08
5	09:27:21 AM	69413.747	0.000	105266.70
x		69648.584	0.000	105490.17
σ		170.61	0.00	185.41
%RSD		0.245	0.000	0.176

Ratio results

Run	Time	156Ce O/140Ce
	Ratio limits	<0.0200
1	09:22:29 AM	0.017
2	09:23:42 AM	0.017
3	09:24:55 AM	0.017
4	09:26:08 AM	0.017
5	09:27:21 AM	0.017
x		0.0170
σ		0.00
%RSD		1.4138

Result : The performance report passed.

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	150
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	150
3	ICV1	Unknown	1.000	0	1	3	150
4	CCV1	Unknown	1.000	0	1	2	150
5	ICB1	Unknown	1.000	0	1	1	150
6	CCB1	Unknown	1.000	0	1	1	150
7	CRA	Unknown	1.000	0	1	4	150
8	ICSA	Unknown	1.000	0	1	5	150
9	ICSAB	Unknown	1.000	0	1	6	150
10	K0910666-MB	Unknown	1.000	1	1	1	150
11	LCSW K0910666	Unknown	1.000	1	1	2	150
12	K0910666-003	Unknown	1.000	1	1	3	150
13	K0910666-003D	Unknown	1.000	1	1	4	150
14	K0910666-003S	Unknown	1.000	1	1	5	150
15	K0910666-004	Unknown	1.000	1	1	6	150
16	K0910666-004 1/5L	Unknown	1.000	1	1	7	150
17	CCV2	Unknown	1.000	0	1	2	150
18	CCB2	Unknown	1.000	0	1	1	150
19	K0910666-004A	Unknown	1.000	1	1	8	150
20	K0910666-005	Unknown	1.000	1	1	9	150
21	K0910721-001	Unknown	1.000	1	1	10	150
22	K0910721-002	Unknown	1.000	1	1	11	150
23	K0910721-003	Unknown	1.000	1	1	12	150
24	K0910721-004	Unknown	1.000	1	2	1	150
25	K0910721-005	Unknown	1.000	1	2	2	150
26	K0910721-006	Unknown	1.000	1	2	3	150
27	K0910794-MB	Unknown	1.000	1	2	4	150
28	LCSW K0910794	Unknown	1.000	1	2	5	150
29	CCV3	Unknown	1.000	0	1	2	150
30	CCB3	Unknown	1.000	0	1	1	150
31	K0910794-001	Unknown	1.000	1	2	6	150
32	K0910794-001D	Unknown	1.000	1	2	7	150
33	K0910794-001 1/5L	Unknown	1.000	1	2	8	150
34	K0910794-001A	Unknown	1.000	1	2	9	150
35	K0910794-001S	Unknown	1.000	1	2	10	150
36	K0911120-MB	Unknown	1.000	1	2	11	150
37	LCSW K0911120	Unknown	1.000	1	2	12	150
38	K0911120-023	Unknown	1.000	1	3	1	150
39	K0911120-023 1/5L	Unknown	1.000	1	3	2	150
40	K0911120-023A	Unknown	1.000	1	3	3	150
41	CCV4	Unknown	1.000	0	1	2	150
42	CCB4	Unknown	1.000	0	1	1	150
43	K0911120-024	Unknown	1.000	1	3	4	150
44	K0911120-024D	Unknown	1.000	1	3	5	150
45	K0911120-024S	Unknown	1.000	1	3	6	150
46	K0911335-MB	Unknown	1.000	1	3	7	150
47	LCSW K0911335	Unknown	1.000	1	3	8	150
48	K0911335-001	Unknown	1.000	1	3	9	150
49	K0911335-001D	Unknown	1.000	1	3	10	150
50	K0911335-001 1/5L	Unknown	1.000	1	3	11	150
51	K0911335-001A	Unknown	1.000	1	3	12	150
52	K0911335-001S	Unknown	1.000	1	4	1	150
53	CCV5	Unknown	1.000	0	1	2	150
54	CCB5	Unknown	1.000	0	1	1	150
55	K0910945-MB	Unknown	1.000	1	4	2	150
56	LCSW K0910945	Unknown	1.000	1	4	3	150
57	K0910945-001	Unknown	1.000	1	4	4	150
58	K0910945-001D	Unknown	1.000	1	4	5	150
59	K0910945-001 1/5L	Unknown	1.000	1	4	6	150
60	K0910945-001A	Unknown	1.000	1	4	7	150
61	K0910945-001S	Unknown	1.000	1	4	8	150
62	K0910796-004	Unknown	1.000	1	4	9	150
63	K0910796-007	Unknown	1.000	1	4	10	150
64	K0910796-008	Unknown	1.000	1	4	11	150
65	CCV6	Unknown	1.000	0	1	2	150
66	CCB6	Unknown	1.000	0	1	3	150
67	K0910815-003	Unknown	1.000	1	4	12	150

NR Be on entire run out of Control.
JB
12/13/09

68	K0910815-007	Unknown	1.000	1	5	1	150
69	K0911408-MB	Unknown	1.000	1	5	2	150
70	LCSW K0911408	Unknown	1.000	1	5	3	150
71	DLCSW K0911408	Unknown	1.000	1	5	4	150
72	K0911408-017	Unknown	1.000	1	5	5	150
73	K0911408-017 1/5L	Unknown	1.000	1	5	6	150
74	K0911408-017A	Unknown	1.000	1	5	7	150
75	K0911203-MB	Unknown	1.000	1	5	8	150
76	LCSW K0911203	Unknown	1.000	1	5	9	150
77	CCV7	Unknown	1.000	0	1	2	150
78	CCB7	Unknown	1.000	0	1	3	150
79	K0911203-009	Unknown	1.000	1	5	10	150
80	K0911203-009D	Unknown	1.000	1	5	11	150
81	K0911203-009 1/5L	Unknown	1.000	1	5	12	150
82	K0911203-009A	Unknown	1.000	2	1	1	150
83	K0911203-009S	Unknown	1.000	2	1	2	150
84	K0910934-MB	Unknown	1.000	2	1	3	150
85	LCSW K0910934	Unknown	1.000	2	1	4	150
86	K0910934-001	Unknown	1.000	2	1	5	150
87	K0910934-001D	Unknown	1.000	2	1	6	150
88	K0910934-001 1/5L	Unknown	1.000	2	1	7	150
89	CCV8	Unknown	1.000	0	1	2	150
90	CCB8	Unknown	1.000	0	1	3	150
91	K0910934-001A	Unknown	1.000	2	1	8	150
92	K0910934-001S	Unknown	1.000	2	1	9	150
93	K0910934-002	Unknown	1.000	2	1	10	150
94	K0910934-001 DISS	Unknown	1.000	2	1	11	150
95	K0910934-002 DISS	Unknown	1.000	2	1	12	150
96	K0910934-003 DISS	Unknown	1.000	2	2	1	150
97	K091011642-MB	Unknown	1.000	2	2	2	150
98	LCSW K0911642	Unknown	1.000	2	2	3	150
99	K0911642-001	Unknown	1.000	2	2	4	150
100	CCV9	Unknown	1.000	0	1	4	150
101	CCB9	Unknown	1.000	0	1	3	150
102	K0911642-002	Unknown	1.000	2	2	5	150
103	K0911642-002D	Unknown	1.000	2	2	6	150
104	K0911642-002S	Unknown	1.000	2	2	7	150
105	K0911731-001	Unknown	1.000	2	2	8	150
106	K0911672-001	Unknown	1.000	2	2	9	150
107	K0911740-001	Unknown	1.000	2	2	10	150
108	K0911740-002	Unknown	1.000	2	2	11	150
109	K0911740-003	Unknown	1.000	2	2	12	150
110	K0911740-002 DISS	Unknown	1.000	2	3	1	150
111	K0911740-003 DISS	Unknown	1.000	2	3	2	150
112	CCV10	Unknown	1.000	0	1	4	150
113	CCB10	Unknown	1.000	0	1	3	150
114	K0911090-MB	Unknown	1.000	2	3	3	150
115	LCSW K0911090	Unknown	1.000	2	3	4	150
116	K0911090-001	Unknown	1.000	2	3	5	150
117	K0911090-001D	Unknown	1.000	2	3	6	150
118	K0911090-001S	Unknown	1.000	2	3	7	150
119	K0911461-MB	Unknown	1.000	2	3	8	150
120	LCSW K0911461	Unknown	1.000	2	3	9	150
121	K0911461-001	Unknown	1.000	2	3	10	150
122	K0911461-001D	Unknown	1.000	2	3	11	150
123	K0911461-001S	Unknown	1.000	2	3	12	150
124	K0911455-001	Unknown	1.000	2	4	1	150
125	CCV11	Unknown	1.000	0	1	4	150
126	CCB11	Unknown	1.000	0	1	3	150
127	K0911466-001	Unknown	1.000	2	4	3	150
128	K0911457-001	Unknown	1.000	2	4	2	150
129	K0911468-001	Unknown	1.000	2	4	4	150
130	K0911471-001	Unknown	1.000	2	4	5	150
131	K0911691-MB	Unknown	1.000	2	4	6	150
132	LCSW K0911691	Unknown	1.000	2	4	7	150
133	K0911691-001	Unknown	1.000	2	4	8	150
134	K0911691-001D	Unknown	1.000	2	4	9	150
135	K0911691-001S	Unknown	1.000	2	4	10	150
136	K0911691-003	Unknown	1.000	3	2	8	150
137	CCV12	Unknown	1.000	0	1	4	150

138	CCB12	Unknown	1.000	0	1	3	150
139	K0911830-MB	Unknown	1.000	2	4	11	150
140	LCSW K0911830	Unknown	1.000	2	4	12	150
141	K0911830-001	Unknown	1.000	2	5	1	150
142	K0911830-001D	Unknown	1.000	2	5	2	150
143	K0911830-001S	Unknown	1.000	2	5	3	150
144	K0911829-001	Unknown	1.000	2	5	4	150
145	K0911829-002	Unknown	1.000	2	5	5	150
146	K0911829-003	Unknown	1.000	2	5	6	150
147	K0911831-001	Unknown	1.000	2	5	7	150
148	K0911115-MB	Unknown	1.000	2	5	8	150
149	CCV13	Unknown	1.000	0	1	4	150
150	CCB13	Unknown	1.000	0	1	5	150
151	LCSW K0911115	Unknown	1.000	2	5	9	150
152	K0911115-001	Unknown	1.000	2	5	10	150
153	K0911115-001D	Unknown	1.000	2	5	11	150
154	K0911115-001S	Unknown	1.000	2	5	12	150
155	K0911115-002	Unknown	1.000	3	1	1	150
156	K0911840-MB	Unknown	1.000	3	1	2	150
157	LCSW K0911840	Unknown	1.000	3	1	3	150
158	K0911840-001	Unknown	1.000	3	1	4	150
159	K0911840-001D	Unknown	1.000	3	1	5	150
160	K0911840-001S	Unknown	1.000	3	1	6	150
161	CCV14	Unknown	1.000	0	1	4	150
162	CCB14	Unknown	1.000	0	1	5	150
163	K0911953-MB	Unknown	1.000	3	1	7	150
164	LCSW K0911953	Unknown	1.000	3	1	8	150
165	K0911953-001	Unknown	1.000	3	1	9	150
166	K0911953-001D	Unknown	1.000	3	1	10	150
167	K0911953-001S	Unknown	1.000	3	1	11	150
168	K0911701-001	Unknown	1.000	3	1	12	150
169	K0911701-002	Unknown	1.000	3	2	1	150
170	K0911701-003	Unknown	1.000	3	2	2	150
171	K0911617-001	Unknown	1.000	3	2	3	150
172	K0911617-002	Unknown	1.000	3	2	4	150
173	CCV15	Unknown	1.000	0	1	9	150
174	CCB15	Unknown	1.000	0	1	10	150
175	K0911617-003	Unknown	1.000	3	2	5	150
176	K0911617-004	Unknown	1.000	3	2	6	150
177	K0911617-005	Unknown	1.000	3	2	7	150
178	K0910666-003 1/100	Unknown	1.000	3	2	9	150
179	K0910666-003 1/100D	Unknown	1.000	3	2	10	150
180	K0910666-003 1/100S	Unknown	1.000	3	2	11	150
181	K0910666-005 1/100	Unknown	1.000	3	2	12	150
182	K0910945-001S	Unknown	1.000	3	3	1	150
183	K0910769-004 1/5	Unknown	1.000	3	3	2	150
184	K0910769-004 1/2	Unknown	1.000	3	3	3	150
185	CCV16	Unknown	1.000	0	1	9	150
186	CCB16	Unknown	1.000	0	1	10	150
187	K0910769-007	Unknown	1.000	3	3	4	150
188	K0910769-007 1/5L	Unknown	1.000	3	3	5	150
189	K0910769-007A	Unknown	1.000	3	3	6	150
190	K0911740-001 1/100	Unknown	1.000	3	3	7	150
191	K0911740-001 1/5	Unknown	1.000	3	3	8	150
192	K0911740-002 1/5	Unknown	1.000	3	3	9	150
193	K0911740-003 1/5	Unknown	1.000	3	3	10	150
194	K0911740-002 DISS 1/5	Unknown	1.000	3	3	11	150
195	K0911120-MB	Unknown	1.000	3	3	12	150
196	CCV17	Unknown	1.000	0	1	9	150
197	>CCV17	Unknown	1.000	0	1	9	150
198	CCB17	Unknown	1.000	0	1	10	150

Dilution Corrected Concentrations

Cal. Blk 12/11/2009 04:15:29 PM

User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:29	0.0003	-0.0067	102.86%	0.0015	0.0047	-0.0187	-0.0019	0.0016
2	16:16:26	-0.0001	0.0033	97.30%	0.0060	-0.0033	-0.0101	0.0010	-0.0010
3	16:17:23	-0.0002	0.0034	99.84%	-0.0074	-0.0014	0.0288	0.0009	-0.0006
x		-0.0000	0.0000	100.00%	-0.0000	0.0000	-0.0000	-0.0000	0.0000
σ		0.0003	0.0058	2.78%	0.0068	0.0042	0.0253	0.0016	0.0014
%RSD		0.0000	0.0000	2.78	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:29	-0.0038	0.3138	0.4545	0.0306	0.0040	-0.0257	-0.0288	-0.0184
2	16:16:26	0.0002	0.0688	0.0054	0.0154	-0.0020	0.0119	0.0005	0.0142
3	16:17:23	0.0037	-0.3826	-0.4600	-0.0460	-0.0021	0.0138	0.0283	0.0042
x		-0.0000	0.0000	-0.0000	0.0000	-0.0000	0.0000	-0.0000	0.0000
σ		0.0038	0.3533	0.4573	0.0406	0.0035	0.0223	0.0285	0.0167
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:29	100.70%	-0.0501	0.0369	-0.0845	-0.1360	-0.0021	-0.0050	0.0000
2	16:16:26	99.31%	-0.0054	0.0391	0.2447	0.0087	-0.0005	0.0026	0.0000
3	16:17:23	99.99%	0.0555	-0.0760	-0.1602	0.1273	0.0026	0.0024	-0.0000
x		100.00%	-0.0000	0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000
σ		0.69%	0.0530	0.0658	0.2153	0.1319	0.0024	0.0044	0.0000
%RSD		0.69	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:29	99.71%	-0.0004	-0.0003	-0.0007	-0.0007	-0.0008	98.71%	0.0002
2	16:16:26	99.39%	0.0000	-0.0003	0.0014	0.0014	0.0000	99.36%	-0.0005
3	16:17:23	100.89%	0.0004	0.0006	-0.0007	-0.0007	0.0008	101.94%	0.0002
x		100.00%	0.0000	-0.0000	-0.0000	0.0000	-0.0000	100.00%	-0.0000
σ		0.79%	0.0004	0.0005	0.0012	0.0012	0.0008	1.71%	0.0004
%RSD		0.79	0.0000	0.0000	0.0000	0.0000	0.0000	1.71	0.0000

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:29	0.0003	0.0011	0.0036	-0.0010	98.39%	-0.0001	-0.0001	-0.0011
2	16:16:26	0.0003	-0.0021	-0.0000	-0.0005	100.02%	-0.0001	0.0002	0.0001
3	16:17:23	-0.0006	0.0010	-0.0035	0.0016	101.60%	0.0002	-0.0000	0.0009
x		-0.0000	0.0000	0.0000	-0.0000	100.00%	-0.0000	-0.0000	-0.0000
σ		0.0005	0.0018	0.0035	0.0014	1.61%	0.0002	0.0001	0.0010
%RSD		0.0000	0.0000	0.0000	0.0000	1.61	0.0000	0.0000	0.0000

Run	Time	207Pb	208Pb
		ppb	ppb
1	16:15:29	-0.0014	-0.0012
2	16:16:26	0.0007	0.0009
3	16:17:23	0.0007	0.0003
x		-0.0000	-0.0000
σ		0.0012	0.0011
%RSD		0.0000	0.0000

Cal. Stn 12/11/2009 04:20:09 PM

User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:09	25.1970	24.9484	99.85%	24.7962	24.6616	24.6761	24.8545	24.5668
2	16:21:07	25.1183	25.1203	97.83%	24.8131	25.1382	25.3765	24.8810	25.0014
3	16:22:04	24.6847	24.9313	95.16%	25.3908	25.2002	24.9474	25.2645	25.4319
x		25.0000	25.0000	97.61%	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.2758	0.1045	2.35%	0.3385	0.2947	0.3531	0.2295	0.4326
%RSD		1.1034	0.4180	2.41	1.3540	1.1786	1.4125	0.9179	1.7302

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:09	24.4676	25.1536	25.3681	24.7067	24.3856	24.4911	24.9104	24.3400
2	16:21:07	25.2487	25.4469	24.7819	24.8268	25.2361	25.1641	25.0423	24.9614
3	16:22:04	25.2837	24.3995	24.8500	25.4665	25.3783	25.3449	25.0472	25.6986
x		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.4614	0.5404	0.3206	0.4085	0.5368	0.4499	0.0776	0.6801
%RSD		1.8456	2.1614	1.2823	1.6339	2.1472	1.7997	0.3105	2.7204

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:09	102.62%	24.3445	25.0260	23.8087	25.0121	24.1862	24.3537	24.4214
2	16:21:07	99.27%	25.0252	25.2856	25.3243	25.1189	25.2128	24.7952	25.2054
3	16:22:04	95.99%	25.6303	24.6884	25.8670	24.8690	25.6010	25.8511	25.3731
x		99.30%	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		3.32%	0.6433	0.2995	1.0668	0.1254	0.7310	0.7694	0.5080
%RSD		3.34	2.5730	1.1978	4.2672	0.5015	2.9240	3.0776	2.0321

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:09	100.56%	24.9638	24.7256	24.5447	24.7904	24.8942	100.34%	24.5174
2	16:21:07	99.15%	25.0595	25.2239	25.2318	25.1085	25.2308	98.66%	25.4074
3	16:22:04	97.62%	24.9768	25.0506	25.2236	25.1011	24.8750	98.78%	25.0752
x		99.11%	25.0000	25.0000	25.0000	25.0000	25.0000	99.26%	25.0000
σ		1.47%	0.0519	0.2530	0.3943	0.1815	0.2001	0.93%	0.4498
%RSD		1.48	0.2076	1.0119	1.5774	0.7261	0.8004	0.94	1.7990

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:09	24.6095	24.3039	24.6306	24.7350	98.25%	24.5614	24.7937	24.7861
2	16:21:07	25.1456	25.7706	25.1047	25.2209	99.01%	25.3422	25.0556	25.1221
3	16:22:04	25.2449	24.9255	25.2647	25.0441	99.08%	25.0964	25.1507	25.0918
x		25.0000	25.0000	25.0000	25.0000	98.78%	25.0000	25.0000	25.0000
σ		0.3419	0.7362	0.3298	0.2459	0.46%	0.3993	0.1849	0.1858
%RSD		1.3674	2.9449	1.3190	0.9837	0.47	1.5971	0.7395	0.7433

Run	Time	207Pb	208Pb
		ppb	ppb
1	16:20:09	24.7175	24.6983
2	16:21:07	24.9970	25.1236
3	16:22:04	25.2855	25.1782
x		25.0000	25.0000
σ		0.2840	0.2627
%RSD		1.1359	1.0509

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:07	2.8859	105.8576	102.00%	27.9862	10.9687	11.0678	27.4966	27.2526
2	16:36:04	2.6525	96.2398	101.91%	26.2612	10.4103	10.0697	26.0192	25.8685
3	16:37:01	2.6610	97.9261	98.09%	26.2947	10.4554	10.4668	26.4994	26.5032
x		2.7332	100.0078	100.67%	26.8474	10.6115	10.5348	26.6717	26.5415
σ		0.1323	5.1357	2.23%	0.9864	0.3102	0.5025	0.7536	0.6928
%RSD		4.8418	5.1353	2.22	3.6741	2.9233	4.7700	2.8256	2.6103

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:07	27.5545	28.6993	35.7158	14.7834	14.2228	27.8103	31.2692	31.3120
2	16:36:04	25.8065	25.1043	30.5536	13.6734	13.1886	25.2879	28.7854	28.5621
3	16:37:01	26.7403	25.4555	30.2016	13.8909	13.5255	26.7015	29.6503	29.7581
x		26.7004	26.4197	32.1570	14.1159	13.6456	26.5999	29.9016	29.8774
σ		0.8747	1.9820	3.0870	0.5882	0.5274	1.2643	1.2608	1.3788
%RSD		3.2759	7.5019	9.5998	4.1670	3.8652	4.7529	4.2166	4.6150

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:07	100.15%	27.2291	26.7566	27.8244	28.9027	26.4138	26.3944	26.5878
2	16:36:04	101.60%	24.6556	26.3736	26.1197	27.0408	25.4239	25.8112	25.8100
3	16:37:01	98.34%	25.1911	27.6352	26.2200	26.5379	26.4240	26.3976	26.2931
x		100.03%	25.6919	26.9218	26.7214	27.4938	26.0872	26.2011	26.2303
σ		1.63%	1.3579	0.6468	0.9566	1.2458	0.5745	0.3376	0.3927
%RSD		1.63	5.2853	2.4025	3.5798	4.5312	2.2022	1.2887	1.4970

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:07	97.31%	13.7969	14.1185	13.4570	12.8565	13.0337	95.61%	26.0183
2	16:36:04	100.16%	13.1412	12.9174	12.4362	12.0434	12.2874	100.36%	24.7276
3	16:37:01	97.72%	13.3375	13.2928	12.7048	12.4621	12.5732	97.57%	25.6836
x		98.40%	13.4252	13.4429	12.8660	12.4540	12.6314	97.84%	25.4765
σ		1.54%	0.3365	0.6145	0.5291	0.4066	0.3766	2.39%	0.6698
%RSD		1.57	2.5065	4.5710	4.1125	3.2649	2.9811	2.44	2.6291

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:07	25.5037	114.3276	113.8835	114.6937	93.74%	26.8668	27.0379	25.0869
2	16:36:04	24.0441	105.9222	104.9842	106.9622	99.85%	25.5680	25.7201	23.8270
3	16:37:01	25.4321	108.8022	109.1785	110.6830	98.43%	26.1555	26.4878	24.3187
x		24.9933	109.6840	109.3487	110.7797	97.34%	26.1967	26.4153	24.4109
σ		0.8228	4.2715	4.4521	3.8666	3.20%	0.6504	0.6619	0.6350
%RSD		3.2923	3.8944	4.0715	3.4904	3.28	2.4827	2.5057	2.6013

Run	Time	207Pb	208Pb
		ppb	ppb
1	16:35:07	27.9781	26.6911
2	16:36:04	26.5081	25.2999
3	16:37:01	27.1094	25.9248
x		27.1985	25.9719
σ		0.7391	0.6968
%RSD		2.7173	2.6830

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:25	27.0815	25.7738	98.30%	25.5261	26.2190	26.1280	26.1909	26.1180
2	16:40:22	23.7850	23.1098	100.22%	23.3467	23.7395	24.1200	23.8716	23.2011
3	16:41:20	25.2514	24.6982	92.87%	25.0802	25.7477	26.4673	25.4900	25.4576
x		25.3727	24.5273	97.13%	24.6510	25.2354	25.5718	25.1842	24.9256
σ		1.6516	1.3402	3.81%	1.1513	1.3167	1.2687	1.1895	1.5295
%RSD		6.5092	5.4640	3.92	4.6705	5.2178	4.9613	4.7232	6.1362

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:25	26.0486	26.2262	26.3267	26.2594	27.1284	26.2293	25.0521	27.2199
2	16:40:22	23.4284	23.8217	22.6578	23.5536	23.5530	22.8902	23.2751	24.2096
3	16:41:20	25.8946	25.5158	23.7816	25.5081	24.9839	25.9705	25.5436	25.7934
x		25.1239	25.1879	24.2554	25.1070	25.2218	25.0300	24.6236	25.7410
σ		1.4703	1.2354	1.8797	1.3968	1.7996	1.8576	1.1934	1.5058
%RSD		5.8523	4.9046	7.7498	5.5633	7.1350	7.4216	4.8467	5.8499

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:25	97.20%	26.2285	26.9196	26.6939	26.0521	27.0849	27.1430	26.7056
2	16:40:22	102.32%	23.8563	23.5129	22.7462	24.6274	24.8467	24.2695	24.4934
3	16:41:20	93.16%	25.9189	24.0480	25.7701	26.9246	26.9074	26.9199	26.7297
x		97.56%	25.3346	24.8268	25.0701	25.8680	26.2796	26.1108	25.9763
σ		4.59%	1.2895	1.8321	2.0649	1.1596	1.2442	1.5985	1.2842
%RSD		4.70	5.0899	7.3793	8.2364	4.4828	4.7343	6.1219	4.9439

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:25	96.34%	25.9257	26.0495	25.5221	26.1298	26.1416	96.52%	26.0558
2	16:40:22	99.20%	23.7633	23.8365	23.6839	23.5229	23.7654	101.22%	23.4459
3	16:41:20	94.22%	25.4193	25.2950	25.4085	25.5559	25.3297	95.34%	25.7154
x		96.59%	25.0361	25.0603	24.8715	25.0695	25.0789	97.69%	25.0724
σ		2.50%	1.1310	1.1250	1.0300	1.3698	1.2078	3.11%	1.4188
%RSD		2.59	4.5174	4.4892	4.1414	5.4639	4.8159	3.18	5.6589

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:25	25.5900	25.3550	25.7353	26.1674	94.09%	26.2892	26.3048	26.1763
2	16:40:22	23.3914	23.5039	23.3223	23.6795	100.68%	23.9008	24.0047	23.8775
3	16:41:20	25.6184	25.3648	25.5784	25.5211	96.75%	25.5142	25.6837	25.6981
x		24.8666	24.7412	24.8787	25.1227	97.17%	25.2347	25.3310	25.2506
σ		1.2777	1.0715	1.3502	1.2909	3.32%	1.2185	1.1899	1.2130
%RSD		5.1380	4.3310	5.4270	5.1385	3.42	4.8286	4.6975	4.8038

Run	Time	207Pb	208Pb
		ppb	ppb
1	16:39:25	26.3327	26.2003
2	16:40:22	23.8573	23.7838
3	16:41:20	25.7956	25.7863
x		25.3286	25.2568
σ		1.3021	1.2923
%RSD		5.1409	5.1167

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:44	0.0028	-0.0112	99.94%	-0.0107	-0.0020	-0.0038	-0.0027	-0.0006
2	17:03:41	0.0013	-0.0086	100.51%	-0.0321	-0.0354	0.0121	-0.0019	-0.0010
3	17:04:39	0.0035	-0.0001	96.24%	-0.0220	0.0160	0.0333	0.0006	0.0010
x		0.0026	-0.0066	98.90%	-0.0216	-0.0072	0.0139	-0.0014	-0.0002
σ		0.0011	0.0058	2.32%	0.0107	0.0261	0.0186	0.0017	0.0011
%RSD		43.5092	87.3531	2.34	49.4803	364.6312	134.1848	127.6350	517.0719

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:44	-0.0056	-0.4649	0.1871	0.0279	0.0089	0.0300	-0.0001	-0.0085
2	17:03:41	-0.0020	-0.1622	-0.6596	-0.0187	0.0087	0.0406	0.0553	0.0192
3	17:04:39	-0.0073	-0.3213	-0.9394	-0.0538	0.0061	0.0220	0.0012	0.0216
x		-0.0049	-0.3161	-0.4706	-0.0149	0.0079	0.0309	0.0188	0.0107
σ		0.0027	0.1514	0.5865	0.0410	0.0016	0.0093	0.0316	0.0167
%RSD		55.1430	47.9027	124.6317	275.4718	19.6855	30.1932	167.8561	155.9453

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:44	99.90%	0.1097	0.0006	0.2131	0.4234	0.0302	0.0437	0.0305
2	17:03:41	101.36%	0.0183	-0.0391	-0.0038	0.0691	0.0345	0.0429	0.0388
3	17:04:39	97.98%	0.0731	0.0029	-0.3319	0.2765	0.0433	0.0437	0.0365
x		99.75%	0.0670	-0.0119	-0.0409	0.2563	0.0360	0.0434	0.0353
σ		1.69%	0.0460	0.0236	0.2744	0.1780	0.0066	0.0005	0.0043
%RSD		1.70	68.6389	198.4288	671.3020	69.4402	18.4672	1.0619	12.0570

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:44	98.26%	0.0019	0.0007	-0.0007	-0.0027	0.0027	96.61%	0.0045
2	17:03:41	99.69%	0.0018	0.0016	-0.0007	-0.0017	0.0000	98.64%	0.0072
3	17:04:39	98.58%	0.0009	0.0030	-0.0007	0.0004	0.0018	97.90%	0.0080
x		98.84%	0.0016	0.0018	-0.0007	-0.0013	0.0015	97.72%	0.0066
σ		0.75%	0.0005	0.0012	0.0000	0.0016	0.0013	1.02%	0.0018
%RSD		0.76	34.1693	67.8355	0.0000	120.1472	90.2252	1.05	27.4982

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:44	0.0021	0.0043	-0.0017	-0.0007	96.00%	-0.0001	0.0018	0.0020
2	17:03:41	0.0038	0.0011	0.0036	0.0009	98.52%	0.0006	0.0012	0.0019
3	17:04:39	0.0039	0.0042	0.0018	0.0014	98.85%	0.0025	0.0020	0.0019
x		0.0033	0.0032	0.0012	0.0005	97.79%	0.0010	0.0017	0.0019
σ		0.0010	0.0019	0.0027	0.0011	1.56%	0.0013	0.0004	0.0001
%RSD		30.4243	57.6690	221.5048	214.9427	1.59	128.4101	23.1686	4.2573

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:02:44	-0.0019	0.0011
2	17:03:41	0.0014	0.0014
3	17:04:39	0.0013	0.0040
x		0.0003	0.0022
σ		0.0019	0.0016
%RSD		727.8918	73.9366

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:08	0.0019	-0.0066	99.12%	-0.0149	0.0093	-0.0171	0.0036	-0.0018
2	17:08:05	0.0004	0.0025	95.44%	0.0006	0.0120	-0.0546	0.0028	0.0007
3	17:09:02	-0.0002	0.0046	98.13%	-0.0002	-0.0128	-0.0971	0.0017	-0.0002
x		0.0007	0.0002	97.56%	-0.0048	0.0028	-0.0563	0.0027	-0.0004
σ		0.0010	0.0060	1.90%	0.0087	0.0136	0.0400	0.0009	0.0012
%RSD		149.3816	3674.7450	1.95	180.7485	484.6035	71.1281	34.9030	276.4698

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:08	-0.0036	-0.6305	0.0477	0.0244	0.0029	0.0031	0.0596	-0.0076
2	17:08:05	-0.0073	0.3873	-0.9094	-0.0500	0.0127	0.0035	-0.0275	0.0223
3	17:09:02	-0.0018	-0.4637	-1.1532	-0.0417	-0.0021	0.0596	0.1125	0.0101
x		-0.0042	-0.2357	-0.6717	-0.0224	0.0045	0.0221	0.0482	0.0083
σ		0.0028	0.5459	0.6348	0.0408	0.0075	0.0325	0.0707	0.0150
%RSD		65.5566	231.6418	94.5091	181.5716	166.8806	147.4126	146.6775	181.0956

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:08	97.15%	-0.1847	-0.1126	0.0372	-0.8131	0.0260	0.0160	0.0201
2	17:08:05	96.93%	0.0978	0.0047	-0.2363	0.3689	0.0390	0.0445	0.0350
3	17:09:02	100.98%	-0.0182	-0.0386	-0.2670	-0.0778	0.0348	0.0382	0.0411
x		98.36%	-0.0350	-0.0489	-0.1554	-0.1740	0.0332	0.0329	0.0321
σ		2.28%	0.1420	0.0593	0.1675	0.5968	0.0066	0.0150	0.0108
%RSD		2.32	405.4341	121.3672	107.7985	342.9640	19.9741	45.5008	33.5623

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:08	96.66%	0.0005	0.0002	-0.0007	-0.0038	0.0010	95.70%	0.0017
2	17:08:05	97.18%	0.0024	0.0021	0.0014	0.0026	-0.0017	96.68%	0.0066
3	17:09:02	98.91%	0.0019	0.0021	0.0014	-0.0007	-0.0008	98.60%	0.0051
x		97.58%	0.0016	0.0015	0.0007	-0.0006	-0.0005	96.99%	0.0045
σ		1.18%	0.0010	0.0011	0.0012	0.0032	0.0013	1.47%	0.0025
%RSD		1.21	60.9399	74.9276	170.4745	523.5754	262.7889	1.52	56.4478

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:08	0.0003	0.0012	0.0038	-0.0013	95.22%	0.0023	0.0018	0.0003
2	17:08:05	0.0039	-0.0021	-0.0017	-0.0005	97.69%	0.0010	0.0019	0.0019
3	17:09:02	0.0021	0.0042	0.0018	0.0003	99.45%	0.0010	0.0017	0.0031
x		0.0021	0.0011	0.0013	-0.0005	97.46%	0.0014	0.0018	0.0018
σ		0.0018	0.0031	0.0028	0.0008	2.12%	0.0007	0.0001	0.0014
%RSD		85.4669	282.8113	219.2646	166.8016	2.18	50.2723	5.9150	78.3714

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:07:08	0.0021	-0.0001
2	17:08:05	0.0014	0.0020
3	17:09:02	0.0046	0.0039
x		0.0027	0.0019
σ		0.0017	0.0020
%RSD		62.2909	101.0220

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:48	0.0178	1.8348	102.84%	0.1609	0.2149	0.1832	0.0521	0.0207
2	17:12:45	0.0207	1.7994	100.92%	0.1870	0.2126	0.1610	0.0494	0.0231
3	17:13:43	0.0222	1.8377	94.34%	0.2177	0.1795	0.1480	0.0520	0.0201
x		0.0202	1.8239	99.37%	0.1885	0.2024	0.1641	0.0512	0.0213
σ		0.0022	0.0213	4.46%	0.0284	0.0198	0.0178	0.0015	0.0016
%RSD		10.8558	1.1694	4.49	15.0877	9.7916	10.8480	2.9823	7.5267

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:48	0.1829	-0.1216	0.5231	0.1305	0.1150	0.5448	0.3718	0.4058
2	17:12:45	0.1999	0.2207	-0.4127	0.0724	0.1193	0.5485	0.4522	0.4795
3	17:13:43	0.2468	-0.0285	-0.8445	0.0641	0.0998	0.5950	0.4751	0.5161
x		0.2099	0.0235	-0.2447	0.0890	0.1114	0.5628	0.4330	0.4671
σ		0.0331	0.1770	0.6991	0.0362	0.0102	0.0280	0.0542	0.0561
%RSD		15.7733	752.0599	285.6672	40.6158	9.2001	4.9705	12.5273	12.0187

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:48	102.57%	0.7207	1.0364	0.5951	1.9481	0.0485	0.0752	0.0559
2	17:12:45	100.24%	0.6071	0.9076	0.4823	1.2716	0.0616	0.0429	0.0611
3	17:13:43	99.52%	0.7653	0.6917	0.3869	1.7702	0.0735	0.0473	0.0813
x		100.78%	0.6977	0.8786	0.4881	1.6633	0.0612	0.0551	0.0661
σ		1.59%	0.0816	0.1742	0.1042	0.3507	0.0125	0.0175	0.0134
%RSD		1.58	11.6930	19.8224	21.3483	21.0830	20.4839	31.8167	20.3001

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:48	100.13%	0.0202	0.0245	0.0205	0.0194	0.0200	97.07%	0.0561
2	17:12:45	99.98%	0.0128	0.0139	0.0203	0.0223	0.0274	98.54%	0.0574
3	17:13:43	96.18%	0.0254	0.0182	0.0122	0.0239	0.0174	97.07%	0.0632
x		98.76%	0.0195	0.0188	0.0177	0.0219	0.0216	97.56%	0.0589
σ		2.23%	0.0064	0.0053	0.0047	0.0023	0.0052	0.85%	0.0038
%RSD		2.26	32.6732	28.2440	26.8347	10.4041	23.8912	0.87	6.3678

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:48	0.0489	0.0297	0.0433	0.0558	97.04%	0.0225	0.0200	0.0147
2	17:12:45	0.0411	0.0230	0.0568	0.0451	98.19%	0.0192	0.0193	0.0237
3	17:13:43	0.0399	0.0424	0.0396	0.0490	97.60%	0.0212	0.0224	0.0251
x		0.0433	0.0317	0.0465	0.0499	97.61%	0.0210	0.0206	0.0212
σ		0.0049	0.0098	0.0091	0.0054	0.57%	0.0016	0.0016	0.0057
%RSD		11.3198	30.9689	19.5094	10.8262	0.59	7.8221	7.7641	26.7624

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:11:48	0.0188	0.0180
2	17:12:45	0.0269	0.0220
3	17:13:43	0.0248	0.0228
x		0.0235	0.0209
σ		0.0042	0.0026
%RSD		17.8066	12.2853

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:16:36	0.0011	19393.0560	86.04%	-0.0885	0.2876	2.5720	1.7771	0.7727
2	17:17:33	0.0018	19300.4410	81.58%	-0.1224	0.2727	2.6937	1.7707	0.8186
3	17:18:31	0.0025	19234.8850	78.34%	-0.1466	0.2597	2.7708	1.7907	0.8069
x		0.0018	19309.4610	81.99%	-0.1192	0.2733	2.6788	1.7795	0.7994
σ		0.0007	79.4707	3.87%	0.0292	0.0140	0.1002	0.0102	0.0238
%RSD		40.2272	0.4116	4.72	24.4668	5.1041	3.7412	0.5751	2.9794

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:16:36	1.2361	26.1455	5.5724	0.7031	0.4977	1.2669	1.5382	1.0545
2	17:17:33	1.2766	26.7388	6.0432	0.7313	0.5564	1.2828	1.4787	1.0576
3	17:18:31	1.1027	26.5281	6.9654	0.7991	0.5034	1.4072	1.5617	1.0203
x		1.2051	26.4708	6.1937	0.7445	0.5192	1.3190	1.5262	1.0441
σ		0.0910	0.3008	0.7086	0.0494	0.0323	0.0768	0.0428	0.0207
%RSD		7.5510	1.1363	11.4404	6.6290	6.2286	5.8247	2.8026	1.9849

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:16:36	87.38%	-0.0876	0.9855	-0.0375	-0.5265	53.3858	53.9172	53.6879
2	17:17:33	83.45%	-0.0488	0.9008	-0.4510	-0.5577	55.1175	55.4212	55.9961
3	17:18:31	82.13%	0.0468	0.6832	0.0607	-0.4219	56.0955	57.0011	56.6796
x		84.32%	-0.0299	0.8565	-0.1426	-0.5020	54.8663	55.4465	55.4545
σ		2.73%	0.0692	0.1559	0.2716	0.0711	1.3722	1.5421	1.5677
%RSD		3.24	231.4672	18.2069	190.4511	14.1694	2.5010	2.7812	2.8270

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:16:36	83.72%	0.0426	0.0479	0.0529	0.0348	0.0425	86.09%	0.0552
2	17:17:33	80.29%	0.0464	0.0507	0.0445	0.0422	0.0416	83.99%	0.0296
3	17:18:31	80.03%	0.0461	0.0417	0.0322	0.0362	0.0419	83.40%	0.0347
x		81.35%	0.0450	0.0468	0.0432	0.0377	0.0420	84.50%	0.0399
σ		2.06%	0.0021	0.0046	0.0104	0.0039	0.0004	1.42%	0.0135
%RSD		2.53	4.7105	9.7688	24.1762	10.3565	1.0169	1.67	33.9572

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:16:36	0.0398	0.1543	0.1171	0.1188	88.26%	0.0650	0.0679	0.1332
2	17:17:33	0.0325	0.1534	0.1027	0.1229	88.24%	0.0518	0.0558	0.1229
3	17:18:31	0.0431	0.1033	0.1053	0.1290	88.12%	0.0527	0.0572	0.1250
x		0.0385	0.1370	0.1084	0.1236	88.21%	0.0565	0.0603	0.1270
σ		0.0054	0.0292	0.0077	0.0051	0.08%	0.0074	0.0066	0.0054
%RSD		14.1331	21.3013	7.0849	4.1205	0.09	13.0775	10.9548	4.2676

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:16:36	0.1493	0.1436
2	17:17:33	0.1438	0.1333
3	17:18:31	0.1471	0.1322
x		0.1467	0.1364
σ		0.0028	0.0063
%RSD		1.8912	4.6373

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:44	0.0185	20298.3610	83.70%	57.6978	57.7271	59.0687	57.6692	55.6532
2	17:26:42	0.0136	20188.1320	80.57%	56.9786	56.9250	59.0570	58.1709	56.2360
3	17:27:39	0.0133	20211.9370	78.64%	57.7467	57.7949	59.9045	58.8579	56.6675
x		0.0152	20232.8100	80.97%	57.4744	57.4823	59.3434	58.2327	56.1856
σ		0.0029	58.0035	2.55%	0.4300	0.4838	0.4860	0.5968	0.5091
%RSD		19.0489	0.2867	3.15	0.7482	0.8417	0.8189	1.0248	0.9060

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:44	53.9244	89.0567	69.5914	54.5472	53.4739	27.6106	26.9418	27.3421
2	17:26:42	55.3320	81.7991	66.0673	54.9589	54.6682	28.9810	27.2407	27.6195
3	17:27:39	55.7235	74.9025	66.2157	55.1398	53.9779	29.0493	27.5037	27.4751
x		54.9933	81.9194	67.2914	54.8820	54.0400	28.5470	27.2287	27.4789
σ		0.9462	7.0778	1.9932	0.3037	0.5996	0.8116	0.2812	0.1387
%RSD		1.7205	8.6400	2.9620	0.5534	1.1095	2.8431	1.0326	0.5049

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:44	84.85%	28.5951	26.9015	28.4224	28.9087	57.7497	57.4058	58.1617
2	17:26:42	81.19%	28.4792	29.3223	27.8801	28.9932	59.6386	59.6142	59.4766
3	17:27:39	80.26%	28.3742	27.3320	28.5307	28.6741	61.2911	60.8327	60.3073
x		82.10%	28.4828	27.8519	28.2777	28.8587	59.5598	59.2842	59.3152
σ		2.43%	0.1105	1.2914	0.3486	0.1653	1.7720	1.7371	1.0819
%RSD		2.95	0.3880	4.6367	1.2328	0.5728	2.9752	2.9301	1.8240

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:44	80.18%	10.8707	10.8567	27.4308	26.2589	26.4017	82.12%	0.0454
2	17:26:42	78.36%	11.0074	10.9648	27.6745	26.3336	26.4483	81.43%	0.0382
3	17:27:39	76.77%	11.0556	11.2353	27.7502	27.0761	27.1339	79.69%	0.0484
x		78.44%	10.9779	11.0189	27.6185	26.5562	26.6613	81.08%	0.0440
σ		1.71%	0.0959	0.1950	0.1669	0.4518	0.4100	1.26%	0.0053
%RSD		2.18	0.8736	1.7700	0.6043	1.7011	1.5377	1.55	12.0006

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:44	0.0471	0.1059	0.1060	0.0956	84.32%	0.0659	0.0665	0.1258
2	17:26:42	0.0463	0.0801	0.1125	0.0876	85.19%	0.0580	0.0642	0.1323
3	17:27:39	0.0343	0.1047	0.1150	0.0919	83.46%	0.0680	0.0673	0.1331
x		0.0425	0.0969	0.1112	0.0917	84.32%	0.0640	0.0660	0.1304
σ		0.0072	0.0146	0.0047	0.0040	0.86%	0.0053	0.0016	0.0040
%RSD		16.8995	15.0603	4.1880	4.3699	1.02	8.2501	2.4685	3.0461

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:25:44	0.1455	0.1362
2	17:26:42	0.1465	0.1411
3	17:27:39	0.1626	0.1479
x		0.1515	0.1417
σ		0.0096	0.0059
%RSD		6.3582	4.1709

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:49	0.0019	0.2417	98.29%	0.0135	0.0251	0.1714	0.0191	-0.0018
2	17:35:48	-0.0001	0.5809	96.70%	0.0046	0.0059	0.2354	0.0129	-0.0005
3	17:36:45	0.0009	0.4407	95.04%	-0.0051	0.0176	0.2834	0.0112	-0.0009
x		0.0009	0.4211	96.68%	0.0043	0.0162	0.2301	0.0144	-0.0011
σ		0.0010	0.1705	1.62%	0.0093	0.0097	0.0562	0.0041	0.0006
%RSD		114.6666	40.4808	1.68	215.2668	59.7082	24.4142	28.6848	57.7696

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:49	0.0002	0.3903	10.2279	0.6172	0.0270	0.0245	0.0743	0.0023
2	17:35:48	0.0004	-0.0008	6.5044	0.3243	0.0225	0.0636	0.0315	0.0391
3	17:36:45	0.0024	0.1526	4.5139	0.2465	0.0178	0.0328	0.1061	0.0362
x		0.0010	0.1807	7.0821	0.3960	0.0224	0.0403	0.0706	0.0259
σ		0.0012	0.1970	2.9005	0.1955	0.0046	0.0206	0.0374	0.0205
%RSD		120.0492	109.0412	40.9551	49.3562	20.4246	51.0584	52.9868	79.1977

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:49	97.20%	-0.0616	-0.1123	0.1697	-0.3974	0.1259	0.1225	0.1199
2	17:35:48	96.28%	0.1658	0.0856	-0.1364	0.7108	0.1345	0.1555	0.1532
3	17:36:45	95.93%	-0.2868	-0.0327	-0.1261	-1.1708	0.1906	0.1667	0.1824
x		96.47%	-0.0608	-0.0198	-0.0309	-0.2858	0.1503	0.1482	0.1518
σ		0.66%	0.2263	0.0996	0.1738	0.9458	0.0351	0.0230	0.0312
%RSD		0.68	371.9328	502.9101	561.7600	330.8937	23.3808	15.4864	20.5742

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:49	92.39%	0.0001	-0.0003	-0.0007	-0.0038	0.0011	91.66%	0.0025
2	17:35:48	94.08%	0.0005	-0.0003	-0.0007	0.0051	0.0028	93.15%	-0.0005
3	17:36:45	93.85%	0.0001	-0.0003	0.0015	0.0017	0.0001	93.51%	0.0003
x		93.44%	0.0002	-0.0003	0.0000	0.0010	0.0013	92.77%	0.0008
σ		0.92%	0.0003	0.0000	0.0013	0.0045	0.0014	0.98%	0.0016
%RSD		0.98	119.2805	1.8683	2994.9423	448.3296	102.2257	1.06	198.4254

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:49	0.0023	-0.0021	0.0022	0.0012	89.26%	0.0029	0.0013	0.0005
2	17:35:48	0.0013	0.0079	-0.0017	0.0008	93.67%	0.0008	0.0015	0.0048
3	17:36:45	0.0022	0.0045	0.0020	0.0022	94.56%	-0.0008	0.0010	0.0038
x		0.0019	0.0034	0.0009	0.0014	92.50%	0.0010	0.0013	0.0030
σ		0.0006	0.0050	0.0022	0.0007	2.84%	0.0019	0.0003	0.0022
%RSD		28.8256	146.4960	250.7454	53.5155	3.07	195.7031	19.5061	72.7971

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:34:49	0.0007	0.0010
2	17:35:48	0.0039	0.0041
3	17:36:45	0.0010	0.0036
x		0.0019	0.0029
σ		0.0018	0.0016
%RSD		97.2753	56.4652

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:59	20.7682	19.1798	97.81%	19.3377	19.9323	20.2408	19.6943	19.3746
2	17:40:56	20.0374	18.5145	93.64%	19.4110	19.8500	20.3153	19.6437	19.4651
3	17:41:54	20.1788	18.7346	91.30%	19.1609	19.8192	20.4211	20.1895	19.8157
x		20.3281	18.8096	94.25%	19.3032	19.8672	20.3257	19.8425	19.5518
σ		0.3876	0.3389	3.30%	0.1286	0.0585	0.0906	0.3016	0.2330
%RSD		1.9069	1.8019	3.50	0.6662	0.2944	0.4458	1.5200	1.1917

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:59	19.5330	21.0786	23.8497	20.3521	19.6199	19.8656	18.9110	19.4902
2	17:40:56	19.4002	18.5193	21.6494	20.0123	19.6098	19.5039	19.1713	19.7254
3	17:41:54	19.5335	18.9429	21.0232	19.8696	19.4905	19.9529	20.1573	19.8784
x		19.4889	19.5136	22.1741	20.0780	19.5734	19.7741	19.4132	19.6980
σ		0.0768	1.3718	1.4845	0.2478	0.0720	0.2381	0.6574	0.1955
%RSD		0.3941	7.0299	6.6949	1.2343	0.3678	1.2040	3.3865	0.9926

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:59	98.56%	20.0367	18.8733	19.4729	20.0245	19.7440	19.3284	19.8049
2	17:40:56	96.10%	20.0047	18.7129	19.4156	20.5414	20.0920	20.4005	20.0304
3	17:41:54	93.91%	19.3825	18.2257	20.1299	19.5458	20.4187	20.3664	20.4093
x		96.19%	19.8080	18.6040	19.6728	20.0372	20.0849	20.0317	20.0815
σ		2.33%	0.3688	0.3373	0.3969	0.4979	0.3374	0.6094	0.3054
%RSD		2.42	1.8620	1.8129	2.0176	2.4850	1.6801	3.0420	1.5209

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:59	93.79%	20.6165	20.7318	19.9523	19.1759	19.5422	92.78%	20.0069
2	17:40:56	93.75%	20.1630	20.3554	19.9563	19.2011	19.5688	93.69%	19.9659
3	17:41:54	93.60%	19.8891	19.9889	19.8397	19.0466	19.3895	94.09%	19.9596
x		93.72%	20.2229	20.3587	19.9161	19.1412	19.5002	93.52%	19.9775
σ		0.10%	0.3674	0.3715	0.0662	0.0829	0.0968	0.67%	0.0257
%RSD		0.11	1.8166	1.8246	0.3322	0.4331	0.4963	0.72	0.1284

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:59	19.7833	19.8967	19.7216	19.9736	93.13%	19.7787	19.8770	19.5291
2	17:40:56	19.8092	20.0933	19.8128	19.9033	95.00%	19.9247	19.8991	19.8000
3	17:41:54	19.6324	19.4558	19.6550	19.9030	94.59%	19.8826	20.0049	20.1296
x		19.7416	19.8153	19.7298	19.9267	94.24%	19.8620	19.9270	19.8196
σ		0.0955	0.3265	0.0792	0.0407	0.98%	0.0751	0.0684	0.3007
%RSD		0.4838	1.6477	0.4014	0.2041	1.04	0.3783	0.3431	1.5172

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:39:59	19.8251	19.7806
2	17:40:56	20.0899	19.8672
3	17:41:54	20.1485	20.0850
x		20.0212	19.9110
σ		0.1723	0.1568
%RSD		0.8605	0.7877

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:49:05	0.0222	115.3472	111.85%	24.0163	34.4167	35.0198	1826.2216	5.9598
2	17:50:02	0.0171	116.9960	104.10%	23.5496	35.0827	37.0815	1843.9818	5.7813
3	17:51:00	0.0222	115.6255	100.91%	23.8387	35.1389	37.0889	1874.0319	5.8712
x		0.0205	115.9895	105.62%	23.8015	34.8794	36.3967	1848.0784	5.8708
σ		0.0029	0.8827	5.63%	0.2355	0.4017	1.1925	24.1670	0.0892
%RSD		14.1772	0.7610	5.33	0.9895	1.1517	3.2763	1.3077	1.5200

JB 12/13/09

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:49:05	34.3159	64.7540	41.5851	2.5976	1.5550	13.6681	24.7985	22.6350
2	17:50:02	34.4467	69.2011	42.3229	2.4568	1.5826	13.8010	25.6493	22.7230
3	17:51:00	34.9607	67.1008	43.9033	2.6104	1.5839	14.3168	25.2097	23.0244
x		34.5745	67.0186	42.6037	2.5549	1.5738	13.9287	25.2192	22.7941
σ		0.3408	2.2247	1.1843	0.0852	0.0163	0.3427	0.4255	0.2042
%RSD		0.9858	3.3195	2.7799	3.3360	1.0368	2.4600	1.6872	0.8958

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:49:05	92.14%	25.5875	1.0564	0.8992	3.7453	2.1400	2.0149	2.0794
2	17:50:02	90.37%	25.5054	0.9105	0.8169	4.2838	2.1645	2.2050	2.1653
3	17:51:00	87.40%	25.4982	0.8161	0.8595	4.5030	2.1800	2.2189	2.1393
x		89.97%	25.5304	0.9277	0.8585	4.1774	2.1615	2.1463	2.1280
σ		2.40%	0.0496	0.1211	0.0411	0.3899	0.0202	0.1140	0.0441
%RSD		2.66	0.1944	13.0500	4.7896	9.3329	0.9328	5.3106	2.0703

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:49:05	86.34%	0.0179	0.0089	0.0517	0.4447	0.2771	87.78%	1.4446
2	17:50:02	84.54%	0.0214	0.0113	0.0476	0.4747	0.2716	86.83%	1.5137
3	17:51:00	81.23%	0.0227	0.0094	0.0562	0.4867	0.2984	85.44%	1.5562
x		84.04%	0.0207	0.0099	0.0519	0.4687	0.2824	86.68%	1.5048
σ		2.59%	0.0025	0.0012	0.0043	0.0216	0.0142	1.17%	0.0563
%RSD		3.08	12.0380	12.6690	8.3068	4.6155	5.0136	1.36	3.7431

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:49:05	1.3971	309.0843	306.8553	317.7589	91.01%	0.0068	0.0053	0.6411
2	17:50:02	1.4779	314.8131	311.9308	321.6693	92.25%	0.0032	0.0055	0.6503
3	17:51:00	1.4832	316.9577	314.1254	324.2499	90.99%	0.0032	0.0041	0.6331
x		1.4527	313.6184	310.9705	321.2260	91.42%	0.0044	0.0050	0.6415
σ		0.0482	4.0704	3.7290	3.2681	0.72%	0.0021	0.0007	0.0086
%RSD		3.3195	1.2979	1.1991	1.0174	0.79	47.6277	15.0477	1.3407

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:49:05	0.6655	0.6543
2	17:50:02	0.7084	0.6828
3	17:51:00	0.7357	0.6861
x		0.7032	0.6744
σ		0.0354	0.0175
%RSD		5.0290	2.5931

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:55	0.0287	123.5184	105.61%	26.1992	38.3334	40.5977	2016.2735	6.6240
2	17:55:52	0.0297	120.7342	100.72%	25.9275	37.6499	39.5113	2002.2964	6.5342
3	17:56:50	0.0228	119.9461	100.11%	25.7533	37.0332	38.1955	1959.7742	6.2991
x		0.0271	121.3995	102.15%	25.9600	37.6722	39.4348	1992.7814	6.4857
σ		0.0037	1.8768	3.02%	0.2247	0.6504	1.2029	29.4270	0.1678
%RSD		13.6516	1.5460	2.95	0.8657	1.7265	3.0505	1.4767	2.5868

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:55	37.8563	73.6949	53.3863	3.1807	1.7535	15.1599	28.8626	24.6887
2	17:55:52	38.0664	72.0768	54.1268	3.2862	1.7895	15.2007	28.3864	24.9295
3	17:56:50	35.9317	69.5918	54.7151	3.1395	1.7368	14.4550	26.4352	24.3402
x		37.2848	71.7878	54.0761	3.2021	1.7599	14.9385	27.8947	24.6528
σ		1.1765	2.0668	0.6659	0.0756	0.0270	0.4193	1.2862	0.2963
%RSD		3.1554	2.8790	1.2313	2.3616	1.5321	2.8065	4.6109	1.2019

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:55	87.69%	28.6298	1.7370	0.9534	5.5036	2.3192	2.2403	2.3169
2	17:55:52	83.89%	28.0008	1.2615	1.0313	5.1402	2.3944	2.2896	2.2096
3	17:56:50	85.80%	27.7340	0.9702	1.2011	4.9835	2.3877	2.3471	2.2661
x		85.79%	28.1215	1.3229	1.0619	5.2091	2.3671	2.2923	2.2642
σ		1.90%	0.4600	0.3871	0.1266	0.2668	0.0416	0.0534	0.0537
%RSD		2.21	1.6356	29.2606	11.9252	5.1218	1.7585	2.3307	2.3703

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:55	80.78%	0.0225	0.0107	0.0374	0.4969	0.3526	82.43%	1.7282
2	17:55:52	80.09%	0.0159	0.0079	0.0322	0.4697	0.3257	83.15%	1.6317
3	17:56:50	79.14%	0.0133	0.0085	0.0557	0.4771	0.3155	82.07%	1.6744
x		80.00%	0.0172	0.0090	0.0418	0.4812	0.3313	82.55%	1.6781
σ		0.82%	0.0048	0.0015	0.0123	0.0141	0.0192	0.55%	0.0483
%RSD		1.03	27.7473	16.6056	29.5568	2.9211	5.7851	0.66	2.8803

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:55	1.7351	347.5280	342.8833	356.3632	86.01%	0.0031	0.0037	0.6719
2	17:55:52	1.5716	335.7908	333.4118	344.7177	88.26%	0.0021	0.0022	0.6528
3	17:56:50	1.5749	342.5515	339.2913	349.1764	87.76%	0.0030	0.0022	0.6800
x		1.6272	341.9568	338.5288	350.0858	87.34%	0.0027	0.0027	0.6682
σ		0.0935	5.8912	4.7816	5.8758	1.18%	0.0005	0.0009	0.0140
%RSD		5.7434	1.7228	1.4125	1.6784	1.35	19.0210	31.3547	2.0915

Run	Time	207Pb	208Pb
		ppb	ppb
1	17:54:55	0.7968	0.7342
2	17:55:52	0.7431	0.7064
3	17:56:50	0.7337	0.7258
x		0.7579	0.7221
σ		0.0341	0.0143
%RSD		4.4928	1.9755

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:18	18.9201	137.9228	105.72%	45.1573	56.0925	55.8407	1989.0581	25.1256
2	18:01:16	17.6132	135.2073	99.92%	44.2711	56.0460	57.8578	1991.7252	24.7726
3	18:02:14	17.6575	131.0367	102.00%	42.8665	54.5310	56.2100	1951.7955	24.4646
x		18.0636	134.7223	102.55%	44.0983	55.5565	56.6362	1977.5263	24.7876
σ		0.7421	3.4686	2.94%	1.1552	0.8884	1.0740	22.3233	0.3308
%RSD		4.1082	2.5746	2.87	2.6196	1.5991	1.8963	1.1289	1.3344

JB 12/13/09

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:18	55.4889	97.3319	74.4767	21.7326	20.1268	32.5606	46.7307	42.9942
2	18:01:16	54.3190	91.4798	73.2463	21.5598	19.8111	32.2933	45.0015	42.2755
3	18:02:14	53.8159	88.4321	74.2581	21.0662	19.8947	31.8249	44.0846	42.5311
x		54.5412	92.4146	73.9937	21.4529	19.9442	32.2263	45.2723	42.6003
σ		0.8584	4.5230	0.6564	0.3458	0.1635	0.3724	1.3437	0.3643
%RSD		1.5738	4.8942	0.8872	1.6121	0.8200	1.1555	2.9679	0.8552

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:18	87.52%	48.9998	19.5230	21.2460	25.2175	23.1846	23.1912	23.3169
2	18:01:16	86.12%	47.4429	19.3685	19.8352	25.9529	22.9138	22.8541	23.0382
3	18:02:14	86.17%	46.9873	18.3016	19.9194	22.5092	22.5525	23.0102	22.7884
x		86.60%	47.8100	19.0644	20.3335	24.5598	22.8836	23.0185	23.0478
σ		0.79%	1.0553	0.6651	0.7913	1.8136	0.3171	0.1687	0.2643
%RSD		0.91	2.2073	3.4886	3.8917	7.3844	1.3859	0.7329	1.1469

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:18	79.68%	19.6052	19.5372	19.6932	18.9674	19.2653	82.04%	20.8290
2	18:01:16	78.89%	19.3228	19.2543	18.8373	18.6641	18.7373	82.60%	20.4976
3	18:02:14	80.49%	19.0385	18.9066	18.6806	18.3437	18.4644	83.18%	20.0743
x		79.69%	19.3222	19.2327	19.0704	18.6584	18.8223	82.61%	20.4670
σ		0.80%	0.2834	0.3158	0.5451	0.3119	0.4072	0.57%	0.3783
%RSD		1.00	1.4666	1.6421	2.8583	1.6716	2.1633	0.69	1.8482

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:18	20.0978	357.9036	354.4772	368.8864	84.15%	19.2387	19.1320	19.3316
2	18:01:16	19.7584	349.8699	347.5647	362.7326	86.51%	18.8332	18.7800	19.0221
3	18:02:14	19.9333	347.3419	345.2406	355.5482	86.93%	18.6746	18.7882	18.8992
x		19.9298	351.7051	349.0942	362.3891	85.87%	18.9155	18.9001	19.0843
σ		0.1697	5.5148	4.8045	6.6758	1.50%	0.2909	0.2009	0.2228
%RSD		0.8516	1.5680	1.3763	1.8422	1.74	1.5379	1.0629	1.1677

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:00:18	19.8121	19.5594
2	18:01:16	19.0790	19.0049
3	18:02:14	19.0158	18.8893
x		19.3023	19.1512
σ		0.4426	0.3582
%RSD		2.2932	1.8704

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:25	-0.0007	8.0301	103.53%	7.7122	0.6283	1.4081	2.0197	0.3336
2	18:10:22	0.0014	7.6229	98.65%	7.6515	0.5643	1.2839	2.0344	0.3367
3	18:11:20	0.0014	7.6788	95.66%	7.6728	0.5800	1.3732	2.0497	0.3267
x		0.0007	7.7773	99.28%	7.6788	0.5909	1.3551	2.0346	0.3323
σ		0.0012	0.2207	3.98%	0.0308	0.0334	0.0641	0.0150	0.0051
%RSD		167.3972	2.8383	4.00	0.4007	5.6481	4.7280	0.7371	1.5492

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:25	3.3982	23.1628	21.1482	2.4600	1.3237	1.5921	2.4805	1.9299
2	18:10:22	3.2301	20.2206	16.7772	1.9306	1.3033	1.6486	1.9715	2.2505
3	18:11:20	3.3222	19.9606	14.1761	1.8651	1.3128	2.0192	2.3416	1.9736
x		3.3168	21.1147	17.3672	2.0852	1.3133	1.7533	2.2645	2.0513
σ		0.0842	1.7785	3.5233	0.3262	0.0102	0.2320	0.2631	0.1739
%RSD		2.5389	8.4230	20.2871	15.6436	0.7760	13.2333	11.6188	8.4755

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:25	89.84%	1.6010	0.6571	1.0541	1.8853	1.5672	1.5569	1.6582
2	18:10:22	88.06%	1.3831	0.8431	1.3964	2.0421	1.6638	1.6752	1.5187
3	18:11:20	86.22%	1.3978	1.1710	0.6491	1.9381	1.6675	1.7412	1.6596
x		88.04%	1.4607	0.8904	1.0332	1.9552	1.6328	1.6578	1.6122
σ		1.81%	0.1218	0.2602	0.3741	0.0798	0.0569	0.0934	0.0810
%RSD		2.05	8.3388	29.2170	36.2045	4.0818	3.4837	5.6327	5.0212

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:25	85.76%	0.0044	0.0047	0.0066	0.0046	0.0072	85.56%	0.0845
2	18:10:22	85.86%	0.0017	0.0030	0.0017	0.0022	0.0109	87.01%	0.0767
3	18:11:20	84.94%	0.0017	0.0014	0.0065	0.0046	0.0022	87.15%	0.0892
x		85.52%	0.0026	0.0030	0.0049	0.0038	0.0068	86.57%	0.0834
σ		0.51%	0.0015	0.0016	0.0028	0.0014	0.0044	0.88%	0.0063
%RSD		0.59	58.5205	54.1781	56.7379	37.2123	64.6786	1.02	7.5493

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:25	0.0799	10.1220	9.8980	9.9577	86.63%	0.0035	0.0039	0.0192
2	18:10:22	0.0904	9.4971	9.4855	9.5899	89.12%	0.0037	0.0027	0.0204
3	18:11:20	0.0753	9.6934	9.8627	9.7421	89.03%	0.0029	0.0041	0.0195
x		0.0819	9.7709	9.7487	9.7633	88.26%	0.0034	0.0035	0.0197
σ		0.0077	0.3196	0.2287	0.1848	1.41%	0.0004	0.0007	0.0006
%RSD		9.4614	3.2709	2.3455	1.8932	1.60	12.2699	20.7151	3.2189

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:09:25	0.0215	0.0234
2	18:10:22	0.0214	0.0226
3	18:11:20	0.0221	0.0251
x		0.0217	0.0237
σ		0.0003	0.0012
%RSD		1.5886	5.2210

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:51	0.0019	1.7515	97.95%	1.5719	0.1406	0.6703	0.4144	0.0703
2	18:15:48	0.0009	1.6432	97.44%	1.5647	0.1132	0.5952	0.3983	0.0576
3	18:16:46	0.0009	1.7218	94.92%	1.5696	0.1111	0.4860	0.4154	0.0582
x		0.0012	1.7055	96.77%	1.5687	0.1216	0.5838	0.4094	0.0621
σ		0.0006	0.0560	1.62%	0.0037	0.0164	0.0927	0.0096	0.0071
%RSD		46.6757	3.2819	1.68	0.2346	13.5146	15.8754	2.3401	11.4978

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:51	0.6585	4.0950	10.3346	0.7956	0.2909	0.8625	0.8958	0.9355
2	18:15:48	0.6344	3.6752	7.4792	0.6533	0.2546	0.8647	1.1971	0.8897
3	18:16:46	0.6620	3.8565	6.8742	0.5800	0.2791	0.9429	0.8526	1.0092
x		0.6516	3.8756	8.2293	0.6763	0.2749	0.8900	0.9818	0.9448
σ		0.0150	0.2105	1.8482	0.1096	0.0186	0.0458	0.1877	0.0603
%RSD		2.3013	5.4323	22.4581	16.2113	6.7499	5.1488	19.1149	6.3823

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:51	94.85%	0.3682	0.4113	0.6642	0.8776	0.2926	0.3070	0.3344
2	18:15:48	95.95%	0.3292	0.3252	0.3384	0.7455	0.3551	0.3164	0.3321
3	18:16:46	95.21%	0.3980	0.0885	0.3772	0.5315	0.3849	0.3728	0.3604
x		95.34%	0.3651	0.2750	0.4599	0.7182	0.3442	0.3321	0.3423
σ		0.56%	0.0345	0.1671	0.1779	0.1746	0.0471	0.0356	0.0157
%RSD		0.59	9.4501	60.7754	38.6896	24.3147	13.6831	10.7279	4.5891

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:51	91.78%	-0.0009	0.0003	0.0016	-0.0027	0.0002	90.53%	0.0155
2	18:15:48	93.00%	0.0006	0.0002	-0.0007	-0.0016	0.0010	92.82%	0.0210
3	18:16:46	92.42%	0.0006	0.0007	-0.0007	-0.0016	0.0010	92.85%	0.0173
x		92.40%	0.0001	0.0004	0.0001	-0.0019	0.0008	92.07%	0.0179
σ		0.61%	0.0008	0.0003	0.0013	0.0006	0.0005	1.33%	0.0028
%RSD		0.66	1150.8312	70.6450	2041.9547	32.5873	65.7672	1.45	15.6817

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:51	0.0207	1.9463	1.8878	1.9382	89.72%	0.0037	0.0023	0.0033
2	18:15:48	0.0154	1.9487	1.8912	1.8768	92.85%	0.0012	0.0033	0.0048
3	18:16:46	0.0154	1.7913	1.8616	1.9239	93.50%	0.0023	0.0028	0.0061
x		0.0171	1.8954	1.8802	1.9130	92.02%	0.0024	0.0028	0.0047
σ		0.0030	0.0902	0.0162	0.0321	2.03%	0.0013	0.0005	0.0014
%RSD		17.7219	4.7597	0.8630	1.6801	2.20	52.9037	17.7939	29.8295

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:14:51	0.0049	0.0056
2	18:15:48	0.0005	0.0044
3	18:16:46	0.0045	0.0047
x		0.0033	0.0049
σ		0.0024	0.0007
%RSD		74.0276	13.5092

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:45	26.9408	25.4190	99.72%	25.0535	25.3378	25.9247	25.2934	25.5684
2	18:20:42	25.9657	24.9752	97.48%	25.0763	25.3606	25.0755	25.2095	24.9817
3	18:21:40	24.4351	23.4109	100.48%	24.0610	24.2510	24.0684	23.7169	23.9606
x		25.7805	24.6017	99.23%	24.7302	24.9831	25.0229	24.7399	24.8369
σ		1.2631	1.0548	1.56%	0.5797	0.6342	0.9293	0.8870	0.8137
%RSD		4.8994	4.2876	1.57	2.3442	2.5383	3.7136	3.5851	3.2760

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:45	25.8108	26.0128	30.7656	26.5407	26.0112	25.8251	25.3800	25.4764
2	18:20:42	25.0412	25.8267	28.2697	26.0457	25.4777	25.1173	24.4096	24.8087
3	18:21:40	24.0643	25.2267	25.4957	24.4873	24.6724	23.9635	23.4822	24.0188
x		24.9721	25.6887	28.1770	25.6913	25.3871	24.9686	24.4240	24.7680
σ		0.8753	0.4108	2.6362	1.0716	0.6739	0.9397	0.9490	0.7296
%RSD		3.5051	1.5992	9.3558	4.1711	2.6547	3.7635	3.8855	2.9459

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:45	97.05%	26.4787	26.9122	26.1111	26.7304	25.6766	25.2777	25.4382
2	18:20:42	96.88%	25.9677	26.7752	26.9707	27.1535	26.0646	25.5802	25.3599
3	18:21:40	100.56%	23.4891	24.3641	25.1484	22.9334	24.9897	24.9452	24.8078
x		98.16%	25.3118	26.0172	26.0767	25.6058	25.5770	25.2677	25.2020
σ		2.08%	1.5991	1.4332	0.9116	2.3240	0.5444	0.3176	0.3436
%RSD		2.12	6.3176	5.5088	3.4959	9.0761	2.1283	1.2570	1.3633

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:45	94.92%	25.5664	25.7885	25.4908	25.5237	25.5972	93.80%	25.5114
2	18:20:42	95.28%	25.2482	25.5397	24.7689	25.3392	25.1188	95.33%	25.1534
3	18:21:40	97.07%	24.5503	24.5539	24.3149	24.5307	24.3226	97.88%	24.3820
x		95.76%	25.1216	25.2940	24.8582	25.1312	25.0129	95.67%	25.0156
σ		1.15%	0.5198	0.6529	0.5930	0.5282	0.6439	2.06%	0.5772
%RSD		1.20	2.0689	2.5813	2.3854	2.1017	2.5743	2.16	2.3074

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:45	25.6797	25.4298	25.2959	25.7031	91.51%	25.5769	25.6318	25.5221
2	18:20:42	24.9704	25.4542	25.4675	25.3306	94.72%	25.2250	25.2756	24.8529
3	18:21:40	24.4077	24.5062	24.2356	24.3919	97.26%	24.3668	24.4381	24.2029
x		25.0193	25.1301	24.9997	25.1419	94.50%	25.0562	25.1152	24.8593
σ		0.6374	0.5404	0.6672	0.6756	2.88%	0.6224	0.6128	0.6596
%RSD		2.5476	2.1504	2.6689	2.6873	3.05	2.4842	2.4401	2.6534

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:19:45	25.5745	25.5490
2	18:20:42	25.3082	25.1372
3	18:21:40	24.3428	24.3163
x		25.0751	25.0008
σ		0.6480	0.6276
%RSD		2.5844	2.5102

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:17	0.0012	-0.0079	105.15%	-0.0307	0.0213	0.3072	0.0064	-0.0018
2	18:39:15	0.0023	0.0059	102.69%	0.0226	0.0206	0.1617	0.0029	-0.0011
3	18:40:12	0.0029	0.0136	97.63%	-0.0295	0.0195	0.2899	-0.0004	-0.0010
x		0.0021	0.0039	101.82%	-0.0125	0.0205	0.2529	0.0030	-0.0013
σ		0.0008	0.0109	3.84%	0.0304	0.0009	0.0795	0.0034	0.0005
%RSD		39.6063	281.8505	3.77	242.3245	4.3495	31.4223	114.9484	36.3606

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:17	-0.0040	0.0479	1.5670	0.0727	0.0204	0.0390	0.0529	-0.0037
2	18:39:15	-0.0021	-0.1496	1.0029	0.0363	0.0131	0.0514	0.0544	0.0219
3	18:40:12	0.0001	-0.0583	0.6240	0.0467	0.0154	0.0400	0.0865	0.0111
x		-0.0020	-0.0533	1.0646	0.0519	0.0163	0.0434	0.0646	0.0098
σ		0.0021	0.0988	0.4745	0.0187	0.0037	0.0069	0.0190	0.0128
%RSD		104.9482	185.2512	44.5699	36.0836	22.6837	15.8105	29.3738	131.2488

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:17	103.09%	0.1023	-0.0404	0.2973	0.3599	0.0411	0.0357	0.0333
2	18:39:15	101.85%	0.2120	-0.0768	-0.0800	0.7115	0.0396	0.0459	0.0382
3	18:40:12	99.19%	-0.1047	0.0784	-0.1919	-0.2905	0.0419	0.0493	0.0368
x		101.38%	0.0698	-0.0129	0.0085	0.2603	0.0409	0.0436	0.0361
σ		1.99%	0.1608	0.0811	0.2563	0.5084	0.0012	0.0071	0.0025
%RSD		1.96	230.2310	627.1484	3029.0740	195.2793	2.8971	16.2361	6.9901

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:17	98.42%	0.0019	-0.0003	0.0015	0.0016	0.0018	95.90%	0.0003
2	18:39:15	98.61%	0.0014	0.0016	-0.0007	-0.0006	0.0027	96.90%	0.0017
3	18:40:12	97.45%	0.0028	0.0021	-0.0007	0.0005	0.0001	97.11%	0.0024
x		98.16%	0.0020	0.0011	0.0000	0.0005	0.0015	96.64%	0.0014
σ		0.63%	0.0007	0.0013	0.0012	0.0011	0.0013	0.65%	0.0011
%RSD		0.64	35.2989	110.9392	6498.2204	230.6640	87.7224	0.67	74.8772

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:38:17	-0.0006	0.0045	-0.0017	0.0002	92.04%	0.0052	0.0024	0.0013
2	18:39:15	-0.0006	0.0076	-0.0035	-0.0004	94.89%	0.0023	0.0032	-0.0010
3	18:40:12	-0.0006	0.0011	-0.0035	0.0007	95.84%	0.0003	0.0026	-0.0006
x		-0.0006	0.0044	-0.0029	0.0001	94.26%	0.0026	0.0027	-0.0001
σ		0.0000	0.0032	0.0011	0.0006	1.98%	0.0024	0.0004	0.0012
%RSD		0.0000	73.2016	36.6297	449.9812	2.10	94.2001	16.2077	1691.4437

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:38:17	-0.0007	0.0005
2	18:39:15	0.0004	0.0005
3	18:40:12	0.0004	0.0010
x		0.0000	0.0007
σ		0.0006	0.0002
%RSD		1897.0901	36.7961

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:03	19.7630	25.2481	103.16%	27.1988	19.6655	20.4483	21.0777	19.6201
2	18:44:00	18.5696	24.0760	101.77%	26.0940	18.7334	18.9924	19.9481	18.4346
3	18:44:58	18.0836	24.1293	99.63%	26.3496	19.1405	19.3494	20.4749	18.8472
x		18.8054	24.4845	101.52%	26.5475	19.1798	19.5967	20.5002	18.9673
σ		0.8642	0.6618	1.78%	0.5784	0.4673	0.7588	0.5652	0.6018
%RSD		4.5953	2.7030	1.75	2.1786	2.4363	3.8722	2.7570	3.1729

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:03	22.9366	43.7253	23.8710	21.0610	21.4197	20.8887	21.5403	21.6157
2	18:44:00	21.4326	38.0539	22.4261	19.6296	19.5689	20.2911	21.2483	21.0274
3	18:44:58	21.5915	38.0961	22.6159	20.0459	20.4595	20.7454	20.9018	20.9137
x		21.9869	39.9584	22.9710	20.2455	20.4827	20.6417	21.2301	21.1856
σ		0.8263	3.2623	0.7852	0.7363	0.9256	0.3120	0.3196	0.3768
%RSD		3.7580	8.1642	3.4182	3.6369	4.5192	1.5115	1.5055	1.7785

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:03	91.40%	22.5176	22.4061	23.1047	23.9982	23.0658	22.8240	22.6025
2	18:44:00	91.23%	21.0488	20.1210	20.7765	20.3437	21.7621	21.9878	21.7835
3	18:44:58	89.58%	21.3987	20.9705	21.3888	21.0834	22.1795	22.3869	22.5926
x		90.74%	21.6550	21.1659	21.7567	21.8084	22.3358	22.3996	22.3262
σ		1.01%	0.7672	1.1550	1.2069	1.9321	0.6657	0.4182	0.4700
%RSD		1.11	3.5429	5.4570	5.5472	8.8594	2.9806	1.8671	2.1053

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:03	86.35%	9.9445	10.0339	20.4742	20.6514	20.5302	86.84%	21.0173
2	18:44:00	88.41%	9.3419	9.4630	18.9420	19.3880	19.1451	90.46%	19.5197
3	18:44:58	87.57%	9.4185	9.5157	19.2990	19.7525	19.5817	89.14%	20.3495
x		87.44%	9.5683	9.6709	19.5717	19.9306	19.7524	88.81%	20.2955
σ		1.04%	0.3280	0.3155	0.8016	0.6503	0.7082	1.83%	0.7503
%RSD		1.19	3.4283	3.2624	4.0959	3.2626	3.5852	2.06	3.6967

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:03	20.8573	30.5899	30.1599	30.7655	88.40%	20.0503	20.0682	19.9445
2	18:44:00	19.6023	28.2685	28.3850	28.7218	92.27%	19.1594	19.2209	18.9494
3	18:44:58	19.8495	29.7089	29.2342	29.6863	91.73%	19.7326	19.6964	19.5011
x		20.1030	29.5224	29.2597	29.7245	90.80%	19.6474	19.6618	19.4650
σ		0.6648	1.1719	0.8877	1.0224	2.10%	0.4515	0.4247	0.4985
%RSD		3.3069	3.9695	3.0339	3.4395	2.31	2.2980	2.1600	2.5611

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:43:03	20.1605	20.0099
2	18:44:00	19.1576	19.0585
3	18:44:58	19.4693	19.5666
x		19.5958	19.5450
σ		0.5133	0.4761
%RSD		2.6194	2.4357

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:11	0.0148	53.3388	116.24%	14.7451	16.9030	18.3425	5820.7624	13.9339
2	18:53:08	0.0180	51.6274	109.91%	14.4638	16.5535	18.5693	5882.7237	13.8274
3	18:54:06	0.0216	54.8905	105.67%	15.2111	17.4589	19.6893	6080.1494	14.5529
x		0.0182	53.2856	110.61%	14.8066	16.9718	18.8670	5927.8785	14.1047
σ		0.0034	1.6322	5.32%	0.3774	0.4566	0.7210	135.4608	0.3917
%RSD		18.6376	3.0631	4.81	2.5489	2.6905	3.8217	2.2851	2.7773

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Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:11	56.8952	139.2199	63.7289	8.9743	8.0643	14.6657	22.1930	20.3189
2	18:53:08	56.0393	133.3276	61.8790	8.7082	7.8139	14.2797	20.8658	20.1039
3	18:54:06	57.5776	137.1132	66.6664	9.2325	8.1586	14.8402	21.6039	20.7711
x		56.8373	136.5536	64.0914	8.9717	8.0123	14.5952	21.5542	20.3979
σ		0.7708	2.9858	2.4142	0.2622	0.1781	0.2868	0.6650	0.3405
%RSD		1.3561	2.1865	3.7668	2.9224	2.2233	1.9652	3.0852	1.6695

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:11	85.04%	14.4333	2.1644	0.5698	9.1287	1.2824	1.1073	0.9815
2	18:53:08	84.50%	13.7312	2.2206	0.8642	7.4710	1.1044	1.1156	1.0951
3	18:54:06	81.24%	14.1628	1.6036	0.5371	7.5012	1.1669	1.1398	1.0059
x		83.60%	14.1091	1.9962	0.6570	8.0336	1.1846	1.1209	1.0275
σ		2.06%	0.3541	0.3412	0.1801	0.9485	0.0903	0.0169	0.0598
%RSD		2.46	2.5098	17.0901	27.4170	11.8062	7.6236	1.5063	5.8162

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:11	77.26%	0.0170	0.0105	0.0411	0.1331	0.0831	80.84%	0.6632
2	18:53:08	77.47%	0.0199	0.0069	0.0306	0.1147	0.1069	81.05%	0.6922
3	18:54:06	74.56%	0.0194	0.0115	0.0343	0.1582	0.0907	78.80%	0.7159
x		76.43%	0.0188	0.0096	0.0353	0.1353	0.0936	80.23%	0.6904
σ		1.62%	0.0015	0.0024	0.0053	0.0219	0.0121	1.24%	0.0264
%RSD		2.12	8.1185	24.8753	15.1330	16.1496	12.9808	1.54	3.8290

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:11	0.6884	210.3605	208.8237	214.8844	84.78%	0.0092	0.0073	0.7269
2	18:53:08	0.6337	207.6316	207.1522	210.3878	86.70%	0.0098	0.0103	0.6960
3	18:54:06	0.7502	217.1963	216.2338	218.5709	84.66%	0.0036	0.0072	0.8262
x		0.6908	211.7295	210.7366	214.6143	85.38%	0.0075	0.0083	0.7497
σ		0.0583	4.9271	4.8335	4.0982	1.15%	0.0034	0.0017	0.0681
%RSD		8.4373	2.3271	2.2936	1.9096	1.34	45.4027	21.0765	9.0774

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:52:11	0.8630	0.8032
2	18:53:08	0.8312	0.7802
3	18:54:06	0.8237	0.8437
x		0.8393	0.8090
σ		0.0209	0.0321
%RSD		2.4874	3.9709

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:42	0.0164	338.1228	114.37%	7.1857	1.0125	1.8451	33.5221	0.3675
2	18:58:40	0.0146	327.0963	111.47%	7.0213	1.0283	1.8870	33.6431	0.3866
3	18:59:37	0.0145	323.8730	109.27%	7.2324	1.0805	1.7803	33.6476	0.3722
x		0.0152	329.6974	111.70%	7.1465	1.0404	1.8375	33.6042	0.3754
σ		0.0011	7.4725	2.56%	0.1109	0.0355	0.0538	0.0712	0.0099
%RSD		7.1662	2.2665	2.29	1.5519	3.4164	2.9277	0.2118	2.6462

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:42	1.7019	15.9864	10.5339	14.6389	14.1907	101.0204	95.5646	101.3182
2	18:58:40	1.4884	12.3687	8.1554	13.9459	14.0837	98.8716	93.2964	96.2174
3	18:59:37	1.6245	12.0097	6.6643	14.1021	13.7486	98.4963	89.1014	97.8841
x		1.6049	13.4549	8.4512	14.2290	14.0077	99.4628	92.6542	98.4732
σ		0.1081	2.1996	1.9517	0.3635	0.2307	1.3619	3.2791	2.6009
%RSD		6.7355	16.3482	23.0934	2.5545	1.6466	1.3693	3.5391	2.6413

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:42	92.23%	0.4431	0.3058	0.0245	0.3523	0.4907	0.4993	0.5076
2	18:58:40	92.80%	0.3086	0.1373	0.2648	-0.2630	0.5065	0.5417	0.5201
3	18:59:37	91.60%	0.2315	0.1828	0.1880	0.0260	0.5237	0.6204	0.5398
x		92.21%	0.3277	0.2086	0.1591	0.0384	0.5070	0.5538	0.5225
σ		0.60%	0.1071	0.0872	0.1227	0.3079	0.0165	0.0614	0.0162
%RSD		0.65	32.6736	41.7954	77.1540	801.2934	3.2557	11.0943	3.1025

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:42	86.71%	0.0043	0.0052	0.0138	0.0154	0.0150	85.98%	0.0626
2	18:58:40	87.85%	0.0048	0.0056	0.0064	0.0138	0.0117	88.14%	0.0680
3	18:59:37	86.81%	0.0080	0.0068	0.0088	0.0163	0.0166	87.43%	0.0560
x		87.12%	0.0057	0.0059	0.0097	0.0152	0.0144	87.19%	0.0622
σ		0.63%	0.0020	0.0008	0.0038	0.0013	0.0025	1.10%	0.0060
%RSD		0.72	34.7303	13.7954	38.9093	8.4171	17.3743	1.26	9.6657

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:42	0.0603	2.8664	2.9420	2.8643	86.48%	0.0026	0.0065	1.7658
2	18:58:40	0.0528	2.7872	2.6762	2.7481	89.19%	0.0054	0.0056	1.7094
3	18:59:37	0.0791	2.7905	2.9526	2.8814	88.63%	0.0042	0.0085	1.7481
x		0.0641	2.8147	2.8569	2.8313	88.10%	0.0041	0.0068	1.7411
σ		0.0136	0.0448	0.1566	0.0726	1.43%	0.0014	0.0015	0.0288
%RSD		21.1778	1.5920	5.4820	2.5625	1.62	33.7331	21.9051	1.6568

Run	Time	207Pb	208Pb
		ppb	ppb
1	18:57:42	1.9877	1.9028
2	18:58:40	1.9395	1.8445
3	18:59:37	2.0015	1.8896
x		1.9763	1.8789
σ		0.0325	0.0306
%RSD		1.6469	1.6272

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:37	0.0012	17.4094	110.05%	7.4885	0.1353	0.4317	507.7659	0.5823
2	19:03:34	0.0007	17.2425	107.74%	7.2079	0.1391	0.3776	499.8635	0.5800
3	19:04:32	0.0003	17.0373	103.57%	7.3508	0.1620	0.5401	513.4054	0.6061
x		0.0007	17.2297	107.12%	7.3490	0.1455	0.4498	507.0116	0.5895
σ		0.0004	0.1864	3.28%	0.1403	0.0144	0.0828	6.8024	0.0144
%RSD		58.3907	1.0816	3.07	1.9092	9.9304	18.4018	1.3417	2.4469

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:37	1.8804	36.1341	5.9637	1.2049	1.0705	5.4388	4.7642	5.3113
2	19:03:34	1.8129	31.7506	4.7988	1.0708	1.0170	5.5286	5.2955	5.3614
3	19:04:32	2.0007	30.4944	4.7712	1.0335	1.0235	5.1660	4.8261	5.4163
x		1.8980	32.7930	5.1779	1.1030	1.0370	5.3778	4.9620	5.3630
σ		0.0951	2.9608	0.6807	0.0901	0.0292	0.1888	0.2906	0.0525
%RSD		5.0121	9.0288	13.1460	8.1702	2.8147	3.5109	5.8557	0.9793

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:37	91.44%	1.0485	0.4358	0.0666	1.1755	0.3018	0.3271	0.3215
2	19:03:34	90.20%	0.5536	0.5714	0.4522	-0.7430	0.3226	0.3758	0.3439
3	19:04:32	87.99%	0.6699	0.4566	0.0116	0.2585	0.2887	0.4301	0.3265
x		89.88%	0.7573	0.4879	0.1768	0.2304	0.3044	0.3777	0.3306
σ		1.75%	0.2587	0.0731	0.2401	0.9595	0.0171	0.0515	0.0118
%RSD		1.94	34.1633	14.9749	135.8000	416.5526	5.6177	13.6455	3.5680

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:37	85.84%	0.0012	0.0009	-0.0007	0.0070	0.0042	86.32%	0.0234
2	19:03:34	84.70%	0.0018	0.0003	0.0017	0.0034	0.0022	87.01%	0.0294
3	19:04:32	84.17%	0.0018	-0.0002	0.0066	0.0035	0.0013	85.78%	0.0219
x		84.90%	0.0016	0.0003	0.0025	0.0046	0.0026	86.37%	0.0249
σ		0.85%	0.0003	0.0005	0.0037	0.0021	0.0015	0.62%	0.0040
%RSD		1.00	20.3803	171.4451	146.4943	44.6839	58.1414	0.71	16.0696

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:37	0.0166	7.5425	7.4980	7.5168	86.35%	0.0014	0.0030	0.0107
2	19:03:34	0.0234	7.0414	7.1307	7.2926	89.51%	0.0017	0.0039	0.0111
3	19:04:32	0.0217	7.2774	7.2754	7.4510	88.93%	0.0013	0.0024	0.0135
x		0.0206	7.2871	7.3014	7.4201	88.26%	0.0015	0.0031	0.0118
σ		0.0035	0.2507	0.1850	0.1152	1.68%	0.0002	0.0007	0.0015
%RSD		17.1958	3.4398	2.5340	1.5527	1.90	14.0810	24.2814	13.0037

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:02:37	0.0077	0.0110
2	19:03:34	0.0122	0.0116
3	19:04:32	0.0105	0.0133
x		0.0101	0.0120
σ		0.0023	0.0012
%RSD		22.2234	9.6154

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:07:21	0.0059	9.4825	106.91%	6.7895	1.9738	3.2237	15.8614	4.4531
2	19:08:19	0.0037	8.9579	103.56%	6.6445	1.8665	3.4609	15.6129	4.2009
3	19:09:16	0.0027	9.0554	103.68%	6.7648	1.9534	3.3998	15.7608	4.4017
x		0.0041	9.1653	104.72%	6.7329	1.9312	3.3615	15.7450	4.3519
σ		0.0016	0.2790	1.90%	0.0776	0.0570	0.1232	0.1250	0.1332
%RSD		39.6987	3.0440	1.82	1.1520	2.9512	3.6640	0.7940	3.0617

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:07:21	30.4791	90.0533	31.1841	13.9168	13.7047	4.2069	4.4026	4.5285
2	19:08:19	28.2292	78.1868	28.4467	12.7331	12.6866	3.8449	4.0504	4.1822
3	19:09:16	29.0273	76.1247	28.8216	13.2427	13.3166	4.0099	4.6499	4.2666
x		29.2452	81.4549	29.4841	13.2976	13.2360	4.0205	4.3676	4.3258
σ		1.1407	7.5174	1.4841	0.5937	0.5138	0.1812	0.3013	0.1806
%RSD		3.9003	9.2289	5.0335	4.4649	3.8817	4.5071	6.8980	4.1751

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:07:21	87.53%	2.1506	0.9438	0.8846	4.4091	0.7040	0.6811	0.7495
2	19:08:19	89.26%	1.8895	1.2681	0.4388	4.2687	0.6973	0.7757	0.6698
3	19:09:16	86.34%	2.2076	0.7338	0.7827	4.4766	0.7181	0.7539	0.7130
x		87.71%	2.0826	0.9819	0.7020	4.3848	0.7064	0.7369	0.7108
σ		1.47%	0.1696	0.2691	0.2336	0.1061	0.0106	0.0496	0.0399
%RSD		1.67	8.1448	27.4103	33.2720	2.4186	1.5016	6.7261	5.6096

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:07:21	82.33%	0.0024	0.0009	0.0388	0.0353	0.0439	85.22%	0.1774
2	19:08:19	83.44%	0.0018	0.0009	0.0385	0.0362	0.0427	85.61%	0.1816
3	19:09:16	82.57%	0.0029	0.0026	0.0463	0.0537	0.0351	84.90%	0.1815
x		82.78%	0.0024	0.0015	0.0412	0.0418	0.0406	85.24%	0.1802
σ		0.58%	0.0006	0.0010	0.0044	0.0104	0.0048	0.35%	0.0024
%RSD		0.70	23.6906	66.8752	10.6920	24.8643	11.7504	0.42	1.3505

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:07:21	0.1763	12.6701	12.2886	12.2562	86.26%	0.0035	0.0023	0.0441
2	19:08:19	0.1749	11.8057	11.8005	11.8295	89.24%	0.0021	0.0061	0.0476
3	19:09:16	0.1773	11.8791	12.1525	12.2387	88.75%	0.0079	0.0048	0.0475
x		0.1762	12.1183	12.0805	12.1081	88.08%	0.0045	0.0044	0.0464
σ		0.0012	0.4793	0.2519	0.2415	1.60%	0.0030	0.0019	0.0020
%RSD		0.6929	3.9549	2.0854	1.9944	1.81	67.1046	43.5603	4.2439

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:07:21	0.0532	0.0497
2	19:08:19	0.0561	0.0547
3	19:09:16	0.0503	0.0499
x		0.0532	0.0514
σ		0.0029	0.0028
%RSD		5.4518	5.5350

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:12:14	0.0082	2.1559	95.92%	0.0475	0.4381	6.8352	5.3805	3.1683
2	19:13:12	0.0038	2.1358	90.23%	-0.0165	0.3744	6.7842	5.4027	3.0810
3	19:14:09	0.0073	2.2284	87.72%	0.0253	0.4145	6.8354	5.4940	3.0977
x		0.0064	2.1734	91.29%	0.0188	0.4090	6.8183	5.4257	3.1157
σ		0.0023	0.0487	4.20%	0.0325	0.0322	0.0295	0.0602	0.0463
%RSD		36.4564	2.2407	4.60	173.1737	7.8728	0.4327	1.1087	1.4875

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:12:14	14.6703	221.2948	14.8284	1.6914	1.0325	0.1839	1.6795	0.9754
2	19:13:12	14.6873	200.6070	14.9947	1.6079	0.9731	0.1841	1.3255	0.9178
3	19:14:09	14.1419	210.9992	15.4765	1.7675	0.9684	0.1355	1.4009	0.9896
x		14.4999	210.9670	15.0999	1.6889	0.9913	0.1678	1.4686	0.9609
σ		0.3101	10.3439	0.3366	0.0799	0.0358	0.0280	0.1864	0.0381
%RSD		2.1386	4.9031	2.2293	4.7290	3.6074	16.6690	12.6946	3.9601

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:12:14	82.33%	2.6863	6.9838	0.3373	11.2263	0.6725	0.6633	0.5889
2	19:13:12	80.79%	2.6291	6.5143	0.7023	10.3544	0.6903	0.6880	0.6280
3	19:14:09	78.52%	2.7017	7.1382	0.4310	10.7774	0.6875	0.7995	0.6753
x		80.55%	2.6724	6.8788	0.4902	10.7860	0.6835	0.7169	0.6307
σ		1.92%	0.0382	0.3250	0.1896	0.4360	0.0096	0.0726	0.0432
%RSD		2.38	1.4305	4.7244	38.6706	4.0426	1.3994	10.1201	6.8549

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:12:14	77.01%	0.0008	0.0016	0.0046	0.0092	-0.0006	80.15%	0.0842
2	19:13:12	74.88%	0.0039	0.0004	-0.0007	0.0068	0.0015	79.48%	0.0676
3	19:14:09	73.27%	0.0003	-0.0002	-0.0007	0.0043	0.0048	78.12%	0.0451
x		75.05%	0.0017	0.0006	0.0011	0.0067	0.0019	79.25%	0.0656
σ		1.88%	0.0019	0.0009	0.0030	0.0025	0.0027	1.03%	0.0196
%RSD		2.50	114.6403	142.5717	287.6577	36.6767	143.8758	1.30	29.9368

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:12:14	0.0853	28.2017	27.8285	28.2713	81.47%	0.0029	0.0034	0.0009
2	19:13:12	0.0596	28.4601	28.3883	28.2731	81.81%	0.0024	0.0034	0.0029
3	19:14:09	0.0428	28.3948	28.1098	28.5470	81.20%	0.0029	0.0038	-0.0001
x		0.0625	28.3522	28.1089	28.3638	81.49%	0.0028	0.0036	0.0012
σ		0.0214	0.1344	0.2799	0.1587	0.30%	0.0003	0.0002	0.0015
%RSD		34.2223	0.4740	0.9959	0.5594	0.37	9.9117	6.4177	124.1873

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:12:14	0.0017	0.0024
2	19:13:12	0.0044	0.0029
3	19:14:09	0.0004	0.0010
x		0.0022	0.0021
σ		0.0020	0.0010
%RSD		93.1355	45.9442

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:05	0.0080	24.8137	81.05%	0.2153	0.5818	20.3014	7.2776	4.0505
2	19:18:03	0.0053	26.1745	74.99%	0.0231	0.4790	21.1021	7.7166	3.9024
3	19:19:00	0.0110	25.9616	73.05%	-0.0662	0.5273	22.1877	7.8525	3.7391
x		0.0081	25.6499	76.36%	0.0574	0.5294	21.1970	7.6156	3.8973
σ		0.0028	0.7320	4.18%	0.1438	0.0514	0.9467	0.3005	0.1558
%RSD		34.8332	2.8538	5.47	250.5990	9.7136	4.4663	3.9460	3.9968

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:05	21.6861	1166.2532	9.0230	4.4562	5.0700	0.3660	3.8754	2.3442
2	19:18:03	21.8501	1186.7744	10.7040	5.2055	5.2114	0.4864	3.2545	2.1842
3	19:19:00	21.3580	1111.1935	9.5774	4.9063	4.9780	0.4180	4.0069	2.4335
x		21.6314	1154.7404	9.7681	4.8560	5.0865	0.4234	3.7123	2.3206
σ		0.2506	39.0836	0.8565	0.3771	0.1176	0.0604	0.4018	0.1263
%RSD		1.1585	3.3846	8.7686	7.7666	2.3110	14.2632	10.8238	5.4442

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:05	70.34%	10.5566	56.7399	1.3767	40.9695	0.6326	0.6869	0.5817
2	19:18:03	67.50%	10.8601	56.8013	1.8604	41.6889	0.7690	0.7928	0.5462
3	19:19:00	65.65%	9.6631	67.1208	1.4102	41.9666	0.6656	0.8083	0.5406
x		67.83%	10.3599	60.2206	1.5491	41.5417	0.6891	0.7627	0.5562
σ		2.37%	0.6223	5.9758	0.2701	0.5146	0.0711	0.0661	0.0223
%RSD		3.49	6.0066	9.9231	17.4388	1.2387	10.3252	8.6606	4.0120

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:05	62.38%	0.0076	0.0035	-0.0007	0.4492	0.0108	68.33%	0.0510
2	19:18:03	60.03%	0.0160	-0.0000	0.0026	0.4691	0.0099	65.96%	0.0497
3	19:19:00	57.54%	0.0105	0.0008	-0.0007	0.4524	0.0076	63.93%	0.0673
x		59.98%	0.0114	0.0014	0.0004	0.4569	0.0094	66.07%	0.0560
σ		2.42%	0.0043	0.0019	0.0019	0.0107	0.0016	2.21%	0.0098
%RSD		4.03	37.4751	131.2996	484.6181	2.3391	17.0998	3.34	17.5799

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:05	0.0970	97.0218	95.7178	96.8511	66.00%	0.0034	0.0055	0.1473
2	19:18:03	0.0792	99.1985	99.3501	101.2897	63.73%	0.0053	0.0050	0.1650
3	19:19:00	0.0911	100.3071	100.9986	101.7257	62.70%	0.0025	0.0046	0.1519
x		0.0891	98.8425	98.6888	99.9555	64.14%	0.0037	0.0051	0.1547
σ		0.0091	1.6713	2.7017	2.6973	1.69%	0.0014	0.0004	0.0092
%RSD		10.1653	1.6909	2.7376	2.6985	2.64	38.3029	8.3229	5.9160

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:17:05	0.1605	0.1560
2	19:18:03	0.1860	0.1744
3	19:19:00	0.1787	0.1660
x		0.1750	0.1655
σ		0.0131	0.0092
%RSD		7.5042	5.5490

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:53	0.0016	51.0474	89.39%	8.3228	2.4362	14.5563	0.4459	1.4723
2	19:22:50	0.0029	52.8225	84.99%	8.9716	2.5850	13.8398	0.4776	1.4686
3	19:23:47	0.0042	53.4512	82.19%	8.7469	2.4962	13.9194	0.4885	1.4436
x		0.0029	52.4403	85.53%	8.6804	2.5058	14.1052	0.4706	1.4615
σ		0.0013	1.2466	3.63%	0.3295	0.0749	0.3928	0.0221	0.0156
%RSD		45.6137	2.3773	4.24	3.7955	2.9887	2.7845	4.6985	1.0691

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:53	8.9103	438.1571	6.2251	3.2769	2.8468	1.5828	6.2768	4.7959
2	19:22:50	8.3184	417.2417	5.8894	3.2799	2.8033	1.5064	6.0173	5.1299
3	19:23:47	8.6611	427.0721	4.9311	3.0932	2.8991	1.6972	6.3390	5.0298
x		8.6300	427.4903	5.6819	3.2167	2.8497	1.5955	6.2110	4.9852
σ		0.2972	10.4640	0.6715	0.1069	0.0480	0.0961	0.1706	0.1714
%RSD		3.4439	2.4478	11.8182	3.3237	1.6831	6.0211	2.7471	3.4383

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:53	75.18%	7.4234	18.9853	0.9343	17.4235	1.5572	1.6879	1.5207
2	19:22:50	72.88%	7.9078	18.5963	0.6318	18.1365	1.6319	1.7882	1.7031
3	19:23:47	71.53%	8.0399	18.2066	0.6073	18.4107	1.7950	1.8858	1.7000
x		73.19%	7.7904	18.5961	0.7245	17.9902	1.6613	1.7873	1.6412
σ		1.84%	0.3246	0.3894	0.1822	0.5096	0.1216	0.0990	0.1044
%RSD		2.52	4.1666	2.0938	25.1419	2.8328	7.3205	5.5367	6.3637

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:53	67.86%	0.0090	0.0080	0.0497	0.0548	0.0375	71.28%	1.5896
2	19:22:50	63.73%	0.0129	0.0049	0.0332	0.0721	0.0521	69.48%	1.6224
3	19:23:47	63.15%	0.0146	0.0078	0.0370	0.0629	0.0384	67.71%	1.6141
x		64.91%	0.0122	0.0069	0.0400	0.0633	0.0427	69.49%	1.6087
σ		2.57%	0.0029	0.0018	0.0086	0.0087	0.0082	1.79%	0.0171
%RSD		3.96	23.6548	25.5275	21.6122	13.6732	19.1738	2.57	1.0609

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:53	1.5669	133.5785	133.7094	135.0639	70.53%	0.0010	0.0014	0.0413
2	19:22:50	1.6170	138.6170	139.3931	141.1734	68.54%	0.0027	0.0033	0.0473
3	19:23:47	1.6100	141.4524	139.1021	142.2871	68.49%	0.0022	0.0050	0.0558
x		1.5980	137.8826	137.4015	139.5081	69.18%	0.0019	0.0032	0.0481
σ		0.0271	3.9880	3.2008	3.8889	1.16%	0.0009	0.0018	0.0073
%RSD		1.6984	2.8923	2.3295	2.7876	1.68	43.9229	55.6753	15.1891

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:21:53	0.0612	0.0534
2	19:22:50	0.0559	0.0520
3	19:23:47	0.0623	0.0589
x		0.0598	0.0548
σ		0.0034	0.0036
%RSD		5.7124	6.6504

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:01	0.0012	0.2904	107.85%	0.0085	0.0998	4.4934	0.0019	-0.0015
2	19:27:59	-0.0002	0.3225	101.66%	-0.0751	0.0970	4.0779	0.0094	-0.0010
3	19:28:56	0.0008	0.2923	101.56%	0.0756	0.0845	3.3369	0.0168	-0.0010
x		0.0006	0.3017	103.69%	0.0030	0.0937	3.9694	0.0093	-0.0012
σ		0.0007	0.0180	3.60%	0.0755	0.0081	0.5859	0.0075	0.0003
%RSD		114.9343	5.9715	3.47	2511.3903	8.6896	14.7592	80.0605	22.0919

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:01	0.0102	0.1712	0.6386	0.0287	0.0145	0.0216	0.3317	0.0031
2	19:27:59	0.0091	0.5877	0.8232	0.0214	0.0073	0.0483	0.2972	0.0073
3	19:28:56	0.0056	0.4636	0.8974	0.0390	0.0107	0.0731	0.2169	0.0341
x		0.0083	0.4075	0.7864	0.0297	0.0108	0.0477	0.2819	0.0148
σ		0.0024	0.2139	0.1333	0.0089	0.0036	0.0258	0.0589	0.0168
%RSD		28.8620	52.4823	16.9499	29.7894	33.4710	54.0694	20.8814	113.4145

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:01	101.30%	-0.0862	0.8347	-0.1210	-0.1407	0.0279	0.0190	0.0205
2	19:27:59	99.92%	0.1374	0.4654	0.1915	0.3993	0.0355	0.0251	0.0294
3	19:28:56	97.92%	0.0417	0.2793	-0.0597	-0.0891	0.0442	0.0225	0.0253
x		99.71%	0.0310	0.5265	0.0036	0.0565	0.0359	0.0222	0.0251
σ		1.70%	0.1122	0.2827	0.1656	0.2980	0.0081	0.0031	0.0045
%RSD		1.70	362.3401	53.6915	4589.6881	527.3704	22.7179	13.9482	17.8910

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:01	94.35%	0.0001	0.0007	-0.0007	0.0018	0.0011	91.06%	0.0056
2	19:27:59	91.75%	0.0006	-0.0003	-0.0007	-0.0015	0.0011	90.34%	0.0041
3	19:28:56	91.97%	-0.0004	-0.0003	-0.0007	0.0019	0.0011	90.44%	0.0026
x		92.69%	0.0001	0.0001	-0.0007	0.0007	0.0011	90.61%	0.0041
σ		1.45%	0.0005	0.0006	0.0000	0.0019	0.0000	0.39%	0.0015
%RSD		1.56	605.4454	806.4554	0.0000	264.6349	1.3090	0.43	36.7853

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:27:01	0.0014	0.0362	0.0301	0.0316	84.06%	0.0019	0.0010	-0.0012
2	19:27:59	0.0033	0.0538	0.0539	0.0519	84.67%	-0.0003	-0.0005	-0.0012
3	19:28:56	0.0033	0.0465	0.0378	0.0341	85.97%	-0.0003	0.0004	0.0016
x		0.0027	0.0455	0.0406	0.0392	84.90%	0.0004	0.0003	-0.0002
σ		0.0011	0.0088	0.0122	0.0111	0.98%	0.0013	0.0007	0.0016
%RSD		42.5238	19.3768	29.9683	28.2106	1.15	291.6776	239.9847	659.6999

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:27:01	-0.0017	-0.0015
2	19:27:59	0.0002	0.0002
3	19:28:56	0.0008	0.0004
x		-0.0002	-0.0003
σ		0.0013	0.0011
%RSD		629.5559	349.9458

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:46	23.1808	19.8053	110.41%	20.0955	19.8539	21.8172	18.8884	20.0675
2	19:32:43	22.1380	18.9715	103.46%	19.4565	19.6252	21.4955	18.7334	19.3964
3	19:33:40	22.3606	19.2833	100.14%	19.6133	20.0287	22.0742	19.4432	19.9380
x		22.5598	19.3534	104.67%	19.7218	19.8359	21.7957	19.0217	19.8006
σ		0.5492	0.4213	5.24%	0.3330	0.2024	0.2899	0.3732	0.3560
%RSD		2.4344	2.1768	5.01	1.6887	1.0204	1.3302	1.9618	1.7981

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:46	20.5427	19.4016	19.4859	20.5783	20.6096	19.6949	20.6744	20.2927
2	19:32:43	19.6269	19.9567	19.1166	20.1240	19.8280	19.4551	20.3333	19.6800
3	19:33:40	20.0783	19.1558	18.9140	20.0194	20.2676	19.7660	20.1603	19.8059
x		20.0826	19.5047	19.1722	20.2406	20.2350	19.6386	20.3893	19.9262
σ		0.4579	0.4103	0.2900	0.2972	0.3918	0.1629	0.2616	0.3236
%RSD		2.2803	2.1036	1.5124	1.4682	1.9362	0.8295	1.2831	1.6238

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:46	99.88%	21.2273	20.1479	19.9057	22.7156	20.3157	20.0767	19.9520
2	19:32:43	97.45%	20.5046	19.0765	19.3719	20.0104	19.7940	19.5672	19.7486
3	19:33:40	96.77%	20.2014	19.8699	19.5168	20.3111	20.5770	20.4802	20.6172
x		98.03%	20.6444	19.6981	19.5981	21.0124	20.2289	20.0414	20.1059
σ		1.63%	0.5271	0.5560	0.2760	1.4827	0.3986	0.4576	0.4543
%RSD		1.66	2.5530	2.8227	1.4084	7.0563	1.9705	2.2831	2.2594

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:46	93.41%	20.0764	20.0422	19.9752	18.6540	19.4985	89.93%	19.8669
2	19:32:43	93.08%	19.5859	19.6266	19.6882	18.6616	19.0192	90.45%	19.7593
3	19:33:40	89.98%	19.9944	20.3800	19.7910	19.2975	19.5069	88.43%	20.2002
x		92.16%	19.8856	20.0163	19.8181	18.8710	19.3415	89.61%	19.9421
σ		1.89%	0.2627	0.3773	0.1454	0.3694	0.2792	1.05%	0.2299
%RSD		2.05	1.3211	1.8852	0.7336	1.9574	1.4436	1.17	1.1527

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:46	19.7708	20.3663	20.2066	20.3750	83.45%	19.9719	19.8205	19.5808
2	19:32:43	19.1656	20.1231	19.7503	20.0978	85.16%	19.5695	19.4846	19.4325
3	19:33:40	19.7956	20.3429	20.3709	20.2735	84.88%	19.9898	19.8661	19.8511
x		19.5773	20.2775	20.1093	20.2487	84.50%	19.8438	19.7238	19.6215
σ		0.3568	0.1342	0.3216	0.1403	0.92%	0.2377	0.2084	0.2123
%RSD		1.8226	0.6616	1.5991	0.6926	1.08	1.1976	1.0564	1.0818

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:31:46	19.8033	19.7418
2	19:32:43	19.4808	19.3908
3	19:33:40	19.8919	19.7268
x		19.7253	19.6198
σ		0.2164	0.1985
%RSD		1.0970	1.0116

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:28	29.8577	26.7858	105.95%	26.0786	26.2898	27.8058	25.0404	25.7897
2	19:41:26	28.5675	25.2437	100.85%	25.3080	25.3694	26.3197	24.2267	24.7183
3	19:42:23	28.6452	25.6785	97.93%	25.3883	25.2625	26.3980	24.3318	25.1233
x		29.0235	25.9027	101.57%	25.5916	25.6406	26.8412	24.5330	25.2104
σ		0.7235	0.7951	4.06%	0.4237	0.5648	0.8363	0.4426	0.5410
%RSD		2.4929	3.0696	4.00	1.6555	2.2027	3.1159	1.8039	2.1459

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:28	26.5961	27.7589	23.8071	26.6776	26.7824	25.4434	25.4899	25.7685
2	19:41:26	25.3873	25.9158	23.1418	25.2421	25.4079	24.4914	24.4717	24.6408
3	19:42:23	25.4295	27.8430	22.5467	25.6370	26.1049	24.1528	25.0482	25.2299
x		25.8043	27.1726	23.1652	25.8522	26.0984	24.6959	25.0033	25.2131
σ		0.6861	1.0892	0.6306	0.7415	0.6873	0.6692	0.5106	0.5640
%RSD		2.6587	4.0083	2.7220	2.8684	2.6334	2.7096	2.0423	2.2370

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:28	96.66%	26.6603	26.9045	26.7747	25.8354	26.5189	26.2356	26.2015
2	19:41:26	97.84%	26.2438	23.2002	25.0112	26.2591	25.4497	25.6886	25.2976
3	19:42:23	95.43%	25.7866	24.4239	24.4179	25.8282	25.8028	25.7931	26.0380
x		96.64%	26.2302	24.8429	25.4013	25.9742	25.9238	25.9058	25.8457
σ		1.20%	0.4370	1.8873	1.2259	0.2467	0.5448	0.2904	0.4817
%RSD		1.25	1.6659	7.5971	4.8262	0.9499	2.1014	1.1208	1.8636

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:28	90.37%	26.0052	26.3507	25.9106	25.4256	25.9875	88.42%	26.1565
2	19:41:26	91.53%	25.1049	25.4899	25.3385	25.0567	24.6312	89.20%	25.1102
3	19:42:23	89.45%	25.6813	25.6692	25.0780	25.0073	25.2129	87.98%	25.5426
x		90.45%	25.5971	25.8366	25.4424	25.1632	25.2772	88.53%	25.6031
σ		1.04%	0.4560	0.4541	0.4259	0.2286	0.6804	0.62%	0.5257
%RSD		1.15	1.7815	1.7576	1.6741	0.9084	2.6918	0.70	2.0534

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:28	25.8059	25.9515	26.2253	26.5275	80.52%	25.8692	25.8031	25.7857
2	19:41:26	25.1001	25.6011	25.0385	25.4830	83.53%	25.2930	25.2610	25.2634
3	19:42:23	25.3569	26.0121	25.5823	25.7719	82.79%	25.6653	25.7342	25.5921
x		25.4210	25.8549	25.6154	25.9275	82.28%	25.6092	25.5994	25.5471
σ		0.3572	0.2219	0.5941	0.5393	1.57%	0.2922	0.2951	0.2640
%RSD		1.4053	0.8582	2.3192	2.0802	1.91	1.1409	1.1528	1.0335

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:40:28	25.8063	25.7805
2	19:41:26	24.9712	25.1571
3	19:42:23	25.7436	25.6472
x		25.5070	25.5283
σ		0.4651	0.3282
%RSD		1.8234	1.2858

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:03	0.0003	0.0060	103.53%	0.0126	0.0379	1.0896	0.0073	0.0009
2	20:00:01	0.0008	0.0031	101.72%	0.0241	0.0342	1.0780	0.0058	-0.0002
3	20:00:59	0.0008	0.0072	100.80%	-0.0397	0.0517	1.0818	0.0050	-0.0014
x		0.0006	0.0055	102.02%	-0.0010	0.0413	1.0831	0.0060	-0.0002
σ		0.0003	0.0021	1.39%	0.0340	0.0092	0.0059	0.0012	0.0011
%RSD		45.9929	38.5998	1.36	3402.7482	22.2612	0.5441	19.2601	480.0781

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:03	-0.0056	-0.1455	-2.1866	-0.1433	0.0058	0.0280	0.1290	0.0143
2	20:00:01	-0.0036	0.2359	-2.0949	-0.1361	0.0173	0.0458	0.1034	0.0089
3	20:00:59	-0.0092	-0.3485	-2.2493	-0.1193	0.0045	0.0551	0.2775	0.0283
x		-0.0061	-0.0860	-2.1769	-0.1329	0.0092	0.0430	0.1700	0.0171
σ		0.0028	0.2967	0.0777	0.0123	0.0070	0.0138	0.0940	0.0100
%RSD		46.2738	345.0120	3.5678	9.2750	76.6325	32.0600	55.3006	58.5095

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:03	98.47%	-0.0236	0.1605	0.2162	0.0036	0.0339	0.0279	0.0472
2	20:00:01	96.65%	0.0834	0.2039	-0.3400	0.3730	0.0575	0.0330	0.0448
3	20:00:59	97.04%	0.0365	0.2034	-0.1909	0.1260	0.0579	0.0442	0.0410
x		97.39%	0.0321	0.1893	-0.1049	0.1676	0.0498	0.0350	0.0443
σ		0.96%	0.0536	0.0250	0.2879	0.1882	0.0137	0.0083	0.0032
%RSD		0.99	166.9330	13.1841	274.4858	112.2926	27.5697	23.7659	7.1467

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:03	91.81%	-0.0004	0.0003	-0.0007	-0.0026	0.0021	89.62%	0.0003
2	20:00:01	92.95%	0.0015	0.0028	-0.0007	0.0041	0.0002	91.74%	0.0056
3	20:00:59	92.09%	0.0011	0.0013	-0.0007	0.0007	0.0002	90.69%	0.0018
x		92.28%	0.0007	0.0014	-0.0007	0.0007	0.0008	90.68%	0.0026
σ		0.59%	0.0010	0.0013	0.0000	0.0034	0.0011	1.06%	0.0027
%RSD		0.64	137.9748	88.2759	0.0000	465.2366	136.9376	1.17	105.2266

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:03	0.0004	0.0015	0.0005	-0.0012	84.12%	0.0049	0.0069	0.0008
2	20:00:01	0.0013	0.0014	0.0023	-0.0006	86.83%	0.0072	0.0061	-0.0022
3	20:00:59	0.0033	-0.0021	-0.0035	-0.0009	86.40%	0.0056	0.0068	0.0016
x		0.0017	0.0003	-0.0003	-0.0009	85.78%	0.0059	0.0066	0.0001
σ		0.0015	0.0020	0.0030	0.0003	1.46%	0.0012	0.0004	0.0020
%RSD		88.3545	766.2597	1157.7452	31.7390	1.70	20.1343	6.6100	3145.1899

Run	Time	207Pb	208Pb
		ppb	ppb
1	19:59:03	0.0009	0.0017
2	20:00:01	0.0014	0.0006
3	20:00:59	0.0021	0.0029
x		0.0015	0.0017
σ		0.0006	0.0011
%RSD		39.3452	64.5247

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:03:45	0.0019	1.1344	116.96%	1.1109	0.0658	1.6950	31.3921	0.1196
2	20:04:43	0.0002	1.1685	109.66%	1.1106	0.0570	1.6015	31.8564	0.0975
3	20:05:40	0.0002	1.1590	110.49%	1.0396	0.0440	1.6387	31.4593	0.0870
x		0.0008	1.1540	112.37%	1.0870	0.0556	1.6451	31.5693	0.1014
σ		0.0010	0.0176	4.00%	0.0411	0.0109	0.0471	0.2509	0.0167
%RSD		119.7920	1.5240	3.56	3.7786	19.6523	2.8626	0.7949	16.4564

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:03:45	0.6395	27.6025	-1.9518	0.2068	0.3986	225.7522	208.7433	224.3447
2	20:04:43	0.6042	23.2026	-1.9189	0.1653	0.3609	227.3560	211.3495	224.2067
3	20:05:40	0.5771	24.3224	-1.9528	0.1537	0.3644	220.3680	205.5221	220.4238
x		0.6069	25.0425	-1.9412	0.1753	0.3747	224.4920	208.5383	222.9917
σ		0.0313	2.2866	0.0193	0.0279	0.0209	3.6605	2.9191	2.2250
%RSD		5.1510	9.1310	0.9925	15.9190	5.5655	1.6306	1.3998	0.9978

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:03:45	89.29%	0.0852	0.4507	-0.3344	0.0888	0.4385	0.4775	0.4415
2	20:04:43	86.55%	0.0629	0.3344	-0.2597	-0.0844	0.5155	0.4202	0.4575
3	20:05:40	88.86%	0.0600	0.4972	-0.5269	0.0211	0.4626	0.5023	0.4542
x		88.23%	0.0694	0.4274	-0.3737	0.0085	0.4722	0.4667	0.4511
σ		1.47%	0.0138	0.0839	0.1379	0.0873	0.0394	0.0421	0.0084
%RSD		1.67	19.8777	19.6187	36.8957	1026.7526	8.3368	9.0208	1.8707

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:03:45	83.31%	0.0002	-0.0002	0.0068	0.0074	0.0034	82.65%	0.0029
2	20:04:43	82.57%	0.0008	0.0009	0.0044	0.0025	0.0045	81.48%	0.0071
3	20:05:40	82.64%	-0.0004	0.0004	0.0044	0.0025	0.0106	82.14%	0.0062
x		82.84%	0.0002	0.0004	0.0052	0.0041	0.0062	82.09%	0.0054
σ		0.41%	0.0006	0.0006	0.0014	0.0028	0.0039	0.59%	0.0022
%RSD		0.50	284.0196	158.7216	27.3699	68.5800	62.7515	0.72	41.4279

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:03:45	0.0037	0.9881	0.9949	0.9638	80.56%	0.0002	0.0033	0.0347
2	20:04:43	0.0026	0.8314	0.9811	0.9515	81.33%	0.0029	0.0018	0.0455
3	20:05:40	0.0058	0.9591	0.9828	0.9657	83.19%	0.0037	0.0019	0.0404
x		0.0040	0.9262	0.9862	0.9603	81.70%	0.0023	0.0023	0.0402
σ		0.0016	0.0833	0.0075	0.0077	1.35%	0.0018	0.0008	0.0054
%RSD		39.9896	8.9988	0.7615	0.8057	1.65	79.6173	36.3753	13.4226

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:03:45	0.0396	0.0418
2	20:04:43	0.0459	0.0441
3	20:05:40	0.0559	0.0478
x		0.0471	0.0446
σ		0.0082	0.0030
%RSD		17.4375	6.7668

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:33	0.0019	1.9237	117.31%	1.1502	0.0765	1.3313	31.3040	0.1140
2	20:09:31	0.0015	1.8840	113.90%	1.1216	0.0810	1.2702	30.9987	0.0996
3	20:10:28	0.0011	1.8633	110.49%	1.0529	0.0686	1.5563	30.9525	0.0865
x		0.0015	1.8903	113.90%	1.1082	0.0754	1.3859	31.0851	0.1000
σ		0.0004	0.0307	3.41%	0.0500	0.0063	0.1507	0.1910	0.0138
%RSD		24.5031	1.6248	2.99	4.5137	8.2979	10.8721	0.6144	13.7753

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:33	0.6003	28.7097	-2.0576	0.1742	0.3992	222.3008	208.7570	222.0023
2	20:09:31	0.5863	22.8910	-2.0904	0.2111	0.3767	221.2542	206.3625	216.8780
3	20:10:28	0.5697	25.6325	-2.1469	0.1480	0.3864	223.3738	207.9383	220.2826
x		0.5854	25.7444	-2.0983	0.1778	0.3874	222.3096	207.6859	219.7210
σ		0.0153	2.9110	0.0452	0.0317	0.0113	1.0598	1.2170	2.6079
%RSD		2.6166	11.3072	2.1547	17.8409	2.9059	0.4767	0.5860	1.1869

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:33	90.87%	0.1944	0.3977	0.3070	0.3219	0.4302	0.4301	0.4399
2	20:09:31	90.92%	0.0665	0.6511	-0.4666	0.5546	0.4158	0.4806	0.4098
3	20:10:28	88.35%	0.0099	0.5432	0.2074	-0.0477	0.4203	0.4320	0.4265
x		90.05%	0.0903	0.5307	0.0159	0.2763	0.4221	0.4476	0.4254
σ		1.47%	0.0945	0.1272	0.4208	0.3037	0.0073	0.0286	0.0150
%RSD		1.63	104.6688	23.9687	2643.3922	109.9443	1.7397	6.3858	3.5358

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:33	84.95%	-0.0004	0.0003	-0.0007	0.0011	-0.0007	83.17%	0.0103
2	20:09:31	84.82%	-0.0004	-0.0002	0.0042	0.0023	0.0073	84.46%	0.0036
3	20:10:28	82.95%	0.0013	0.0003	0.0018	0.0036	0.0023	83.81%	0.0077
x		84.24%	0.0002	0.0002	0.0018	0.0024	0.0030	83.81%	0.0072
σ		1.12%	0.0009	0.0003	0.0025	0.0012	0.0040	0.65%	0.0034
%RSD		1.33	527.3867	211.9159	138.7972	52.3426	134.3235	0.77	46.7346

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:33	0.0068	1.0152	0.9162	0.9495	81.16%	0.0007	0.0011	0.0405
2	20:09:31	0.0025	0.9238	0.9081	0.9598	82.99%	0.0037	0.0023	0.0316
3	20:10:28	0.0005	0.9681	1.0096	0.9612	83.27%	0.0024	0.0026	0.0379
x		0.0033	0.9690	0.9447	0.9568	82.47%	0.0022	0.0020	0.0367
σ		0.0032	0.0457	0.0564	0.0064	1.15%	0.0015	0.0008	0.0046
%RSD		99.2154	4.7181	5.9723	0.6660	1.39	67.6570	41.4197	12.4932

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:08:33	0.0426	0.0437
2	20:09:31	0.0397	0.0413
3	20:10:28	0.0578	0.0448
x		0.0467	0.0432
σ		0.0097	0.0018
%RSD		20.8413	4.1188

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:24	-0.0002	0.3654	108.26%	0.2693	0.0321	1.3656	6.7697	0.0145
2	20:14:21	0.0013	0.3715	104.30%	0.2379	-0.0157	1.4799	6.6092	0.0184
3	20:15:19	-0.0007	0.3690	102.04%	0.1554	0.0121	1.6227	6.7974	0.0202
x		0.0001	0.3686	104.86%	0.2208	0.0095	1.4894	6.7255	0.0177
σ		0.0010	0.0030	3.15%	0.0588	0.0240	0.1288	0.1016	0.0029
%RSD		764.8110	0.8261	3.00	26.6328	252.8643	8.6471	1.5109	16.3622

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:24	0.1169	6.1030	-2.2190	-0.0529	0.1216	49.3479	46.1590	47.8494
2	20:14:21	0.1197	5.7404	-2.2368	-0.0656	0.0980	48.6262	44.8090	47.9614
3	20:15:19	0.1095	4.5792	-2.2892	-0.0509	0.1018	49.4337	45.4840	48.2827
x		0.1154	5.4742	-2.2483	-0.0565	0.1071	49.1359	45.4840	48.0312
σ		0.0053	0.7960	0.0365	0.0080	0.0127	0.4435	0.6750	0.2249
%RSD		4.5550	14.5409	1.6240	14.1629	11.8292	0.9026	1.4841	0.4682

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:24	96.04%	0.2857	0.3674	0.0377	1.2507	0.0832	0.1114	0.0842
2	20:14:21	94.95%	-0.0154	0.3714	-0.0430	0.0002	0.0882	0.0751	0.0753
3	20:15:19	94.99%	-0.0827	0.2096	-0.2181	-0.2815	0.1012	0.0935	0.0977
x		95.33%	0.0625	0.3161	-0.0745	0.3231	0.0909	0.0933	0.0857
σ		0.62%	0.1962	0.0922	0.1308	0.8155	0.0093	0.0181	0.0113
%RSD		0.65	313.6217	29.1807	175.5754	252.3824	10.2100	19.4235	13.1572

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:24	90.44%	0.0001	-0.0003	-0.0007	0.0009	0.0002	88.45%	0.0011
2	20:14:21	91.14%	0.0006	-0.0003	0.0016	-0.0003	-0.0007	89.56%	0.0011
3	20:15:19	92.05%	0.0016	-0.0008	-0.0007	-0.0004	0.0002	89.76%	0.0034
x		91.21%	0.0008	-0.0004	0.0001	0.0000	-0.0001	89.26%	0.0019
σ		0.81%	0.0008	0.0003	0.0013	0.0007	0.0005	0.71%	0.0013
%RSD		0.88	98.6026	70.1372	1853.1339	1448.4108	519.5775	0.79	71.2245

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:24	0.0004	0.2666	0.2209	0.2275	85.02%	0.0014	0.0009	0.0099
2	20:14:21	0.0004	0.2033	0.2292	0.2168	86.89%	0.0009	0.0002	0.0082
3	20:15:19	0.0043	0.1993	0.2089	0.2226	87.16%	0.0009	0.0024	0.0063
x		0.0017	0.2230	0.2197	0.2223	86.36%	0.0011	0.0012	0.0082
σ		0.0022	0.0378	0.0102	0.0054	1.17%	0.0003	0.0011	0.0018
%RSD		132.5834	16.9343	4.6407	2.4090	1.35	25.6651	95.1465	22.2667

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:13:24	0.0130	0.0107
2	20:14:21	0.0089	0.0098
3	20:15:19	0.0101	0.0087
x		0.0107	0.0097
σ		0.0021	0.0010
%RSD		19.7982	10.3481

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:07	19.2563	17.6805	118.07%	19.7251	18.3547	19.0893	48.3637	18.6515
2	20:19:05	19.4336	17.6506	109.20%	19.6054	18.5812	19.8478	49.2112	18.7357
3	20:20:02	19.0890	17.7447	107.46%	19.7559	18.5173	20.1799	50.4340	19.3537
x		19.2597	17.6919	111.58%	19.6954	18.4844	19.7056	49.3363	18.9136
σ		0.1723	0.0481	5.69%	0.0795	0.1168	0.5590	1.0408	0.3834
%RSD		0.8947	0.2716	5.10	0.4036	0.6319	2.8368	2.1096	2.0273

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:07	19.3663	43.6348	16.0888	19.9809	20.5893	239.3113	225.4300	238.8523
2	20:19:05	19.7592	43.0430	15.9066	20.3357	20.4026	241.8337	223.4489	240.3734
3	20:20:02	20.3759	43.6574	16.2656	19.8922	20.5332	241.4202	228.1308	239.6828
x		19.8338	43.4451	16.0870	20.0696	20.5083	240.8551	225.6699	239.6362
σ		0.5089	0.3484	0.1795	0.2347	0.0958	1.3528	2.3502	0.7616
%RSD		2.5660	0.8020	1.1157	1.1693	0.4669	0.5617	1.0414	0.3178

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:07	91.83%	21.7802	22.4247	20.9307	23.2975	21.6403	21.0730	21.3739
2	20:19:05	88.53%	20.9963	21.6583	20.4879	20.9253	21.9711	21.9721	22.0814
3	20:20:02	87.85%	22.3404	21.3764	20.6512	22.8719	21.8438	22.3246	22.7603
x		89.40%	21.7056	21.8198	20.6899	22.3649	21.8184	21.7899	22.0719
σ		2.13%	0.6751	0.5425	0.2239	1.2648	0.1669	0.6454	0.6932
%RSD		2.38	3.1104	2.4862	1.0821	5.6551	0.7647	2.9619	3.1408

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:07	86.78%	9.6426	9.6517	20.2425	20.0360	20.3275	86.34%	20.7133
2	20:19:05	84.63%	9.7050	9.7026	19.9624	20.3001	20.2578	84.57%	21.0911
3	20:20:02	83.43%	9.7045	9.7956	20.4431	20.3941	20.4390	84.36%	21.4039
x		84.95%	9.6840	9.7166	20.2160	20.2434	20.3414	85.09%	21.0694
σ		1.69%	0.0359	0.0730	0.2414	0.1856	0.0914	1.09%	0.3458
%RSD		1.99	0.3706	0.7512	1.1942	0.9169	0.4494	1.28	1.6411

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:07	20.4898	21.5170	21.5210	21.5655	83.83%	20.0288	20.0046	19.8028
2	20:19:05	20.7091	21.7214	21.6230	21.7151	83.71%	20.4010	20.2341	20.0714
3	20:20:02	21.0306	22.0153	21.7465	21.8562	83.95%	20.5621	20.4710	20.3272
x		20.7432	21.7512	21.6302	21.7123	83.83%	20.3307	20.2365	20.0671
σ		0.2720	0.2505	0.1129	0.1454	0.12%	0.2735	0.2332	0.2622
%RSD		1.3113	1.1516	0.5220	0.6697	0.14	1.3453	1.1524	1.3068

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:18:07	19.8485	19.7888
2	20:19:05	20.3490	20.1515
3	20:20:02	20.5389	20.4073
x		20.2455	20.1159
σ		0.3567	0.3108
%RSD		1.7617	1.5451

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:15	18.2253	16.5884	119.80%	18.3586	17.1380	18.1043	46.8245	17.7789
2	20:28:12	17.9912	16.2067	112.75%	17.7654	16.6598	18.1404	45.9934	17.4042
3	20:29:10	17.4094	16.2812	111.57%	17.4985	16.3994	17.6952	45.6973	17.0351
x		17.8753	16.3588	114.71%	17.8741	16.7324	17.9799	46.1717	17.4061
σ		0.4201	0.2024	4.45%	0.4403	0.3746	0.2473	0.5844	0.3719
%RSD		2.3503	1.2370	3.88	2.4632	2.2387	1.3754	1.2656	2.1368

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:15	18.2637	46.5324	15.5787	18.7571	19.0352	234.2950	217.7279	233.1866
2	20:28:12	17.5830	39.3785	14.5450	17.5441	18.0293	224.8488	211.5385	225.3287
3	20:29:10	17.7477	36.4551	14.3302	17.8459	17.8193	223.5060	209.2408	220.7598
x		17.8648	40.7887	14.8180	18.0491	18.2946	227.5499	212.8357	226.4250
σ		0.3552	5.1845	0.6675	0.6315	0.6499	5.8798	4.3897	6.2856
%RSD		1.9880	12.7107	4.5049	3.4987	3.5525	2.5840	2.0625	2.7760

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:15	90.68%	21.2524	19.2045	21.3928	20.7681	20.7873	20.1686	20.3338
2	20:28:12	90.20%	20.2121	18.6833	19.7383	20.2536	19.9197	20.6971	19.8518
3	20:29:10	90.85%	18.6883	19.6511	19.1046	18.6328	19.9471	20.4840	20.4651
x		90.58%	20.0509	19.1796	20.0786	19.8848	20.2180	20.4499	20.2169
σ		0.34%	1.2896	0.4844	1.1814	1.1144	0.4932	0.2659	0.3229
%RSD		0.38	6.4316	2.5256	5.8840	5.6041	2.4395	1.3004	1.5973

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:15	86.61%	18.9267	18.8481	18.8981	18.1068	18.3982	86.27%	19.3235
2	20:28:12	86.91%	18.3201	18.3377	18.4549	17.5517	17.9514	86.14%	18.9787
3	20:29:10	85.39%	18.3025	18.4794	17.9974	17.6765	17.9579	86.48%	18.8626
x		86.30%	18.5164	18.5551	18.4502	17.7784	18.1025	86.30%	19.0549
σ		0.80%	0.3554	0.2635	0.4504	0.2912	0.2561	0.17%	0.2398
%RSD		0.93	1.9196	1.4201	2.4410	1.6381	1.4148	0.20	1.2582

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:15	19.0598	20.6226	20.6140	20.6061	83.38%	18.9031	19.0491	18.8383
2	20:28:12	18.9146	19.8755	19.3898	19.9860	85.70%	18.4041	18.3303	18.2343
3	20:29:10	18.2590	20.0270	20.0403	19.9841	86.26%	18.4974	18.7243	18.3146
x		18.7445	20.1750	20.0147	20.1920	85.11%	18.6015	18.7012	18.4624
σ		0.4267	0.3950	0.6125	0.3586	1.52%	0.2653	0.3599	0.3280
%RSD		2.2763	1.9578	3.0603	1.7757	1.79	1.4263	1.9247	1.7765

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:27:15	18.7208	18.6398
2	20:28:12	18.3988	18.2396
3	20:29:10	18.3603	18.3642
x		18.4933	18.4145
σ		0.1980	0.2048
%RSD		1.0704	1.1121

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:23	0.0009	4.9245	125.34%	0.0135	0.0448	0.8008	0.0135	-0.0006
2	20:37:21	0.0029	5.2511	111.21%	-0.0231	0.0701	1.0540	0.0191	0.0010
3	20:38:18	0.0003	5.0624	108.62%	0.0222	0.0708	0.8733	0.0162	0.0004
x		0.0014	5.0794	115.06%	0.0042	0.0619	0.9093	0.0163	0.0002
σ		0.0014	0.1640	9.00%	0.0241	0.0148	0.1304	0.0028	0.0008
%RSD		101.1905	3.2281	7.82	575.6242	23.9375	14.3421	17.3552	341.0339

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Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:23	-0.0016	-0.0566	-2.4009	-0.1397	0.0136	0.1060	0.1946	0.0807
2	20:37:21	0.0095	0.0013	-2.3106	-0.1312	0.0167	0.1746	0.1845	0.1942
3	20:38:18	-0.0005	0.1916	-2.2440	-0.1294	0.0264	0.1356	0.1361	0.1391
x		0.0025	0.0454	-2.3185	-0.1334	0.0189	0.1388	0.1717	0.1380
σ		0.0061	0.1298	0.0787	0.0055	0.0067	0.0344	0.0313	0.0568
%RSD		248.3807	285.6933	3.3962	4.1580	35.3244	24.7958	18.2067	41.1472

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:23	110.82%	0.0398	0.2298	-0.2488	0.2385	0.0554	0.0479	0.0631
2	20:37:21	104.91%	-0.1092	-0.0058	0.2615	-0.4981	0.0939	0.1150	0.0741
3	20:38:18	101.97%	-0.0456	0.1483	0.0580	-0.1070	0.0772	0.0618	0.0959
x		105.90%	-0.0384	0.1241	0.0236	-0.1222	0.0755	0.0749	0.0777
σ		4.51%	0.0748	0.1197	0.2569	0.3686	0.0193	0.0354	0.0167
%RSD		4.26	194.9964	96.4390	1089.9922	301.6175	25.5570	47.2769	21.5029

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:23	103.17%	0.0018	-0.0003	-0.0007	0.0014	0.0017	99.50%	0.0023
2	20:37:21	100.03%	0.0023	0.0059	-0.0007	0.0037	0.0036	95.90%	0.0082
3	20:38:18	97.43%	0.0043	0.0012	-0.0007	0.0027	0.0010	94.59%	0.0032
x		100.21%	0.0028	0.0023	-0.0007	0.0026	0.0021	96.66%	0.0046
σ		2.87%	0.0013	0.0033	0.0000	0.0012	0.0013	2.54%	0.0032
%RSD		2.87	47.2491	144.0186	0.0000	45.1698	64.0040	2.63	69.2732

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:23	-0.0006	0.0044	0.0001	0.0032	90.31%	0.0025	0.0033	-0.0009
2	20:37:21	0.0049	0.0045	0.0002	0.0057	89.15%	0.0025	0.0039	0.0047
3	20:38:18	0.0031	0.0046	0.0021	0.0037	89.84%	0.0070	0.0050	0.0024
x		0.0025	0.0045	0.0008	0.0042	89.77%	0.0040	0.0041	0.0021
σ		0.0028	0.0001	0.0011	0.0013	0.59%	0.0026	0.0009	0.0028
%RSD		112.9627	2.6841	138.9682	31.1859	0.65	64.8301	21.2777	135.5205

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:36:23	0.0012	0.0020
2	20:37:21	0.0019	0.0037
3	20:38:18	0.0043	0.0027
x		0.0024	0.0028
σ		0.0016	0.0009
%RSD		65.6025	30.4821

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	23.7347	20.3838	108.30%	21.0954	20.9586	21.3706	19.8219	20.3528
2	20:42:06	22.1449	19.4665	104.79%	19.9351	20.2112	21.4275	19.3254	19.5006
3	20:43:03	22.8147	20.1350	99.42%	20.5471	20.7257	20.9344	20.1009	20.6951
x		22.8981	19.9951	104.17%	20.5258	20.6318	21.2442	19.7494	20.1828
σ		0.7982	0.4744	4.47%	0.5804	0.3824	0.2697	0.3928	0.6152
%RSD		3.4857	2.3724	4.29	2.8278	1.8536	1.2697	1.9890	3.0479

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	20.6726	21.6900	17.4242	20.8862	21.0342	20.1436	20.6041	20.3743
2	20:42:06	19.8582	21.9147	16.6691	20.4899	20.3800	19.8490	20.1906	20.2044
3	20:43:03	20.6899	20.9308	16.9676	20.8271	20.9508	20.4640	20.1646	20.6918
x		20.4069	21.5118	17.0203	20.7344	20.7883	20.1522	20.3197	20.4235
σ		0.4753	0.5156	0.3803	0.2138	0.3561	0.3076	0.2466	0.2474
%RSD		2.3291	2.3969	2.2341	1.0310	1.7128	1.5265	1.2135	1.2113

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	101.39%	22.1601	17.0933	20.4580	21.8750	20.5825	21.0479	20.7016
2	20:42:06	100.57%	19.8642	18.2943	19.5576	19.4623	20.0857	19.8048	20.2219
3	20:43:03	96.87%	21.2260	19.6746	21.3004	21.9488	20.7478	20.8798	20.7953
x		99.61%	21.0834	18.3541	20.4386	21.0954	20.4720	20.5775	20.5730
σ		2.41%	1.1546	1.2917	0.8716	1.4148	0.3446	0.6744	0.3076
%RSD		2.42	5.4763	7.0377	4.2644	6.7065	1.6835	3.2775	1.4952

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	94.45%	20.7272	20.6921	20.4955	20.8229	20.5356	92.69%	20.5649
2	20:42:06	95.95%	19.9086	19.9202	19.6029	19.9386	19.8703	94.86%	19.7328
3	20:43:03	93.25%	20.6123	20.3514	20.2038	20.6581	20.5612	92.27%	20.3261
x		94.55%	20.4161	20.3212	20.1007	20.4732	20.3224	93.27%	20.2080
σ		1.35%	0.4432	0.3869	0.4552	0.4702	0.3917	1.39%	0.4285
%RSD		1.43	2.1709	1.9037	2.2644	2.2968	1.9276	1.49	2.1203

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	20.5764	21.3468	21.0414	21.1573	87.03%	20.6086	20.5979	20.5642
2	20:42:06	19.6809	20.4217	19.9253	20.0492	89.58%	19.9619	20.0661	20.0128
3	20:43:03	20.3060	21.0755	20.9206	20.7617	88.14%	20.6516	20.6736	20.5839
x		20.1877	20.9480	20.6291	20.6560	88.25%	20.4074	20.4458	20.3870
σ		0.4593	0.4755	0.6125	0.5615	1.28%	0.3864	0.3311	0.3242
%RSD		2.2752	2.2700	2.9691	2.7185	1.45	1.8933	1.6192	1.5901

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:41:08	20.4248	20.3764
2	20:42:06	19.8779	19.9994
3	20:43:03	20.6750	20.5398
x		20.3259	20.3052
σ		0.4076	0.2772
%RSD		2.0054	1.3651

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:03	0.0002	1.4435	110.04%	-0.0266	0.1827	1.0699	0.1090	0.0014
2	20:51:01	0.0017	1.3593	108.07%	-0.0331	0.1494	1.0857	0.1141	0.0048
3	20:51:58	0.0026	1.4038	106.26%	-0.0189	0.1698	1.0209	0.1170	0.0030
x		0.0015	1.4022	108.12%	-0.0262	0.1673	1.0588	0.1134	0.0031
σ		0.0012	0.0421	1.89%	0.0071	0.0168	0.0338	0.0041	0.0017
%RSD		79.4078	3.0039	1.75	27.1940	10.0303	3.1912	3.5753	54.5625

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:03	0.0466	0.4841	-2.3652	-0.0175	0.1028	0.8928	0.8752	0.8682
2	20:51:01	0.0506	0.3878	-2.4173	-0.0404	0.1214	0.9008	0.8782	0.9478
3	20:51:58	0.0707	-0.1846	-2.3554	-0.0684	0.1191	0.8993	0.8553	0.8716
x		0.0559	0.2291	-2.3793	-0.0421	0.1144	0.8976	0.8695	0.8959
σ		0.0129	0.3615	0.0333	0.0255	0.0101	0.0043	0.0125	0.0450
%RSD		23.0568	157.7955	1.3980	60.5139	8.8689	0.4744	1.4325	5.0200

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:03	102.41%	-0.0717	0.1856	-0.0137	-0.1368	0.0584	0.0705	0.0711
2	20:51:01	102.34%	0.0505	0.2232	-0.0131	0.2450	0.0829	0.0704	0.0830
3	20:51:58	102.04%	0.2539	-0.0017	-0.3159	0.9187	0.0756	0.1056	0.0999
x		102.26%	0.0776	0.1357	-0.1142	0.3423	0.0723	0.0822	0.0847
σ		0.20%	0.1645	0.1205	0.1747	0.5344	0.0126	0.0203	0.0145
%RSD		0.19	211.9881	88.8051	152.9054	156.1237	17.3586	24.6859	17.0870

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:03	95.94%	0.0001	0.0002	-0.0007	0.0006	0.0019	93.21%	0.0040
2	20:51:01	96.06%	0.0015	0.0022	0.0059	0.0027	0.0019	94.74%	0.0090
3	20:51:58	97.33%	0.0010	0.0027	0.0015	0.0060	0.0037	94.34%	0.0112
x		96.45%	0.0008	0.0017	0.0022	0.0031	0.0025	94.10%	0.0081
σ		0.77%	0.0007	0.0013	0.0033	0.0027	0.0010	0.79%	0.0037
%RSD		0.80	86.4896	76.8517	150.7237	87.1676	40.9004	0.84	45.9187

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:03	0.0051	0.0352	0.0349	0.0324	87.04%	0.0014	0.0019	0.0163
2	20:51:01	0.0078	0.0377	0.0209	0.0258	89.98%	0.0033	0.0062	0.0156
3	20:51:58	0.0115	0.0311	0.0303	0.0328	90.24%	0.0045	0.0038	0.0137
x		0.0081	0.0347	0.0287	0.0304	89.09%	0.0030	0.0040	0.0152
σ		0.0032	0.0033	0.0071	0.0039	1.78%	0.0016	0.0021	0.0013
%RSD		39.7672	9.5583	24.8924	12.9947	1.99	51.9204	53.4802	8.5949

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:50:03	0.0145	0.0164
2	20:51:01	0.0133	0.0160
3	20:51:58	0.0163	0.0149
x		0.0147	0.0158
σ		0.0015	0.0008
%RSD		10.1518	5.1577

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:46	0.0012	0.3622	106.31%	0.0397	0.0649	0.7546	0.0238	-0.0014
2	20:55:44	0.0022	0.3776	104.84%	0.0150	0.0476	0.7824	0.0334	0.0004
3	20:56:41	0.0017	0.3379	104.20%	0.0188	0.0517	0.7491	0.0296	-0.0003
x		0.0017	0.3592	105.12%	0.0245	0.0547	0.7620	0.0289	-0.0004
σ		0.0005	0.0200	1.08%	0.0133	0.0090	0.0178	0.0049	0.0009
%RSD		28.5407	5.5640	1.03	54.2653	16.4873	2.3385	16.7732	214.5340

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:46	0.0160	-0.1394	-2.4637	-0.0851	0.0398	0.6128	0.5098	0.5996
2	20:55:44	0.0139	-0.0511	-2.4834	-0.1162	0.0572	0.5679	0.8436	0.5004
3	20:56:41	0.0107	0.4369	-2.5216	-0.1059	0.0645	0.5676	0.8467	0.5682
x		0.0135	0.0821	-2.4896	-0.1024	0.0538	0.5828	0.7334	0.5561
σ		0.0027	0.3104	0.0295	0.0158	0.0127	0.0260	0.1936	0.0507
%RSD		19.8655	377.9197	1.1833	15.4491	23.5843	4.4683	26.3998	9.1208

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:46	99.10%	-0.0095	0.0412	-0.0351	-0.0539	0.0246	0.0295	0.0205
2	20:55:44	101.99%	0.1252	-0.0761	-0.2404	0.2755	0.0464	0.0430	0.0247
3	20:56:41	99.85%	0.0469	0.0392	-0.3869	0.1569	0.0420	0.0391	0.0260
x		100.31%	0.0542	0.0014	-0.2208	0.1262	0.0377	0.0372	0.0237
σ		1.50%	0.0677	0.0672	0.1767	0.1668	0.0115	0.0069	0.0029
%RSD		1.49	124.8658	4669.2398	80.0336	132.2237	30.5532	18.6451	12.1906

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:46	94.76%	0.0020	0.0002	-0.0007	-0.0005	0.0001	92.44%	0.0040
2	20:55:44	93.59%	0.0010	-0.0003	0.0038	-0.0005	0.0001	92.98%	0.0077
3	20:56:41	96.85%	0.0000	0.0007	-0.0007	-0.0038	0.0019	94.12%	0.0032
x		95.07%	0.0010	0.0002	0.0008	-0.0016	0.0007	93.18%	0.0050
σ		1.65%	0.0010	0.0005	0.0026	0.0019	0.0010	0.86%	0.0024
%RSD		1.73	95.2605	225.2423	326.1099	122.2366	140.0952	0.92	48.0519

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:46	0.0013	0.0082	0.0120	0.0138	86.65%	0.0026	0.0018	0.0049
2	20:55:44	0.0041	0.0215	0.0136	0.0141	89.35%	0.0025	0.0013	0.0061
3	20:56:41	0.0022	0.0079	0.0153	0.0101	90.44%	0.0008	0.0013	0.0037
x		0.0026	0.0125	0.0136	0.0127	88.81%	0.0020	0.0015	0.0049
σ		0.0014	0.0078	0.0017	0.0022	1.95%	0.0010	0.0003	0.0012
%RSD		56.3226	61.9457	12.2799	17.4683	2.20	50.1422	17.5661	24.4009

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:54:46	0.0077	0.0061
2	20:55:44	0.0031	0.0053
3	20:56:41	0.0054	0.0069
x		0.0054	0.0061
σ		0.0023	0.0008
%RSD		42.6917	13.3929

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:59:42	48.5804	42.1369	106.28%	41.7470	42.1675	43.3236	41.0145	41.5583
2	21:00:40	45.9689	41.7749	102.99%	41.2825	41.0187	42.0479	40.6808	40.8818
3	21:01:37	45.3921	40.4499	101.34%	41.9850	41.8804	42.3895	40.9283	41.6717
x		46.6472	41.4539	103.53%	41.6715	41.6889	42.5870	40.8745	41.3706
σ		1.6989	0.8881	2.51%	0.3573	0.5979	0.6603	0.1732	0.4271
%RSD		3.6420	2.1424	2.43	0.8575	1.4341	1.5506	0.4238	1.0324

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:59:42	42.7044	43.5200	38.5474	44.3585	44.7889	41.6770	42.0553	42.5505
2	21:00:40	42.3663	38.2235	36.5208	43.1220	43.5676	41.3429	42.3938	42.5999
3	21:01:37	42.7649	44.5068	36.8432	42.9188	43.4205	42.0053	43.1358	41.7486
x		42.6119	42.0834	37.3038	43.4664	43.9257	41.6750	42.5283	42.2997
σ		0.2148	3.3790	1.0890	0.7792	0.7512	0.3312	0.5526	0.4778
%RSD		0.5042	8.0293	2.9192	1.7926	1.7102	0.7947	1.2994	1.1297

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:59:42	98.68%	44.2525	40.6065	43.0423	44.7497	42.0493	42.2250	41.7651
2	21:00:40	97.55%	42.5773	43.4360	41.2711	43.9767	42.1881	41.6020	41.8370
3	21:01:37	95.40%	41.8530	41.1356	41.2158	43.1810	42.0385	42.8153	42.2273
x		97.21%	42.8943	41.7260	41.8431	43.9691	42.0920	42.2141	41.9431
σ		1.67%	1.2307	1.5043	1.0389	0.7844	0.0834	0.6067	0.2487
%RSD		1.72	2.8692	3.6053	2.4829	1.7839	0.1982	1.4372	0.5930

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:59:42	94.84%	10.0400	10.0530	41.4528	41.7402	41.7066	92.91%	42.1445
2	21:00:40	93.25%	9.7630	9.8953	41.1306	41.1336	40.8764	92.51%	41.0790
3	21:01:37	93.48%	9.8325	9.8510	40.2949	40.9740	41.1740	91.59%	41.4711
x		93.86%	9.8785	9.9331	40.9594	41.2826	41.2523	92.34%	41.5649
σ		0.86%	0.1441	0.1062	0.5976	0.4043	0.4206	0.68%	0.5389
%RSD		0.92	1.4586	1.0688	1.4591	0.9793	1.0195	0.73	1.2965

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:59:42	40.9914	42.3207	41.6915	42.3716	86.90%	42.1585	41.9805	41.9987
2	21:00:40	40.4997	41.2614	41.0699	41.5500	87.64%	41.6772	41.9169	41.7109
3	21:01:37	40.7211	41.3775	41.1037	41.5613	88.29%	41.6960	41.8883	41.6126
x		40.7374	41.6532	41.2884	41.8276	87.61%	41.8439	41.9286	41.7741
σ		0.2463	0.5810	0.3495	0.4711	0.69%	0.2726	0.0472	0.2006
%RSD		0.6046	1.3949	0.8466	1.1263	0.79	0.6515	0.1125	0.4803

Run	Time	207Pb	208Pb
		ppb	ppb
1	20:59:42	41.9305	42.0095
2	21:00:40	41.7295	41.7085
3	21:01:37	42.0058	41.8011
x		41.8886	41.8397
σ		0.1429	0.1542
%RSD		0.3410	0.3685

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:48	29.4796	26.5984	108.33%	25.9411	26.1605	26.3210	24.7904	25.6407
2	21:09:46	28.5871	25.8714	102.04%	25.4140	25.5543	25.9134	24.7341	25.2668
3	21:10:43	28.3284	25.6290	99.92%	25.3331	25.2982	26.4269	24.4296	25.0341
x		28.7984	26.0329	103.43%	25.5627	25.6710	26.2204	24.6514	25.3139
σ		0.6040	0.5045	4.37%	0.3302	0.4428	0.2711	0.1941	0.3060
%RSD		2.0972	1.9379	4.23	1.2916	1.7250	1.0340	0.7873	1.2090

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:48	25.9142	27.3132	21.6401	26.0259	26.4011	25.1910	25.4669	25.5564
2	21:09:46	25.4282	26.8171	21.2868	25.4905	25.4140	24.6640	24.8254	24.7095
3	21:10:43	25.3858	25.9072	21.1088	25.4226	25.6838	25.4484	24.7594	25.1619
x		25.5761	26.6792	21.3452	25.6463	25.8330	25.1011	25.0173	25.1426
σ		0.2936	0.7131	0.2704	0.3305	0.5102	0.3999	0.3908	0.4238
%RSD		1.1480	2.6727	1.2669	1.2886	1.9750	1.5930	1.5622	1.6856

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:48	99.98%	26.9890	26.8848	25.7532	26.5247	25.5094	26.0165	25.8138
2	21:09:46	99.00%	25.8590	25.6287	26.3952	25.5665	25.6119	26.2390	25.8466
3	21:10:43	96.59%	26.7199	23.0207	24.7047	26.2203	26.4313	26.3300	25.8322
x		98.53%	26.5226	25.1781	25.6177	26.1038	25.8509	26.1952	25.8308
σ		1.74%	0.5903	1.9711	0.8533	0.4896	0.5053	0.1613	0.0164
%RSD		1.77	2.2255	7.8285	3.3311	1.8755	1.9546	0.6157	0.0637

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:48	94.90%	25.6664	26.0148	25.3848	25.9079	25.5000	92.65%	25.5370
2	21:09:46	92.83%	25.3586	25.6359	25.0570	25.3287	25.1612	92.17%	25.3764
3	21:10:43	92.83%	25.5175	25.4290	24.9145	24.9421	24.9871	92.29%	25.0945
x		93.52%	25.5141	25.6932	25.1188	25.3929	25.2161	92.37%	25.3360
σ		1.19%	0.1539	0.2971	0.2411	0.4861	0.2609	0.25%	0.2240
%RSD		1.28	0.6032	1.1564	0.9600	1.9144	1.0345	0.27	0.8841

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:48	24.9915	25.5198	26.0960	25.9853	86.03%	25.8623	25.8682	25.8276
2	21:09:46	25.1782	25.1239	25.0216	25.6308	88.66%	25.5799	25.4382	25.0888
3	21:10:43	24.6784	25.3849	25.3908	25.4030	89.17%	25.5537	25.2387	25.1671
x		24.9493	25.3428	25.5028	25.6730	87.95%	25.6653	25.5150	25.3612
σ		0.2525	0.2013	0.5459	0.2935	1.69%	0.1711	0.3217	0.4058
%RSD		1.0121	0.7943	2.1406	1.1430	1.92	0.6667	1.2610	1.6001

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:08:48	25.8040	25.8731
2	21:09:46	25.2834	25.2096
3	21:10:43	25.0218	25.1720
x		25.3697	25.4182
σ		0.3982	0.3944
%RSD		1.5695	1.5515

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:26	0.0011	-0.0022	111.02%	0.0588	0.0209	0.3803	0.0062	0.0014
2	21:28:24	0.0007	0.0094	107.52%	0.0121	0.0263	0.4832	0.0010	0.0004
3	21:29:21	-0.0002	0.0072	104.40%	-0.0160	0.0248	0.6201	0.0014	-0.0010
x		0.0006	0.0048	107.65%	0.0183	0.0240	0.4946	0.0028	0.0002
σ		0.0007	0.0062	3.31%	0.0378	0.0028	0.1203	0.0029	0.0012
%RSD		120.3541	129.2935	3.08	206.5811	11.6680	24.3195	102.2789	505.6344

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:26	-0.0059	-0.3466	-2.7486	-0.1657	0.0049	0.0044	0.0636	-0.0167
2	21:28:24	-0.0022	-0.2246	-2.7899	-0.1661	0.0145	0.0374	0.0819	0.0094
3	21:29:21	-0.0019	0.2627	-2.7649	-0.1606	0.0074	0.0677	0.0864	0.0498
x		-0.0034	-0.1028	-2.7678	-0.1641	0.0089	0.0365	0.0773	0.0142
σ		0.0022	0.3224	0.0208	0.0031	0.0050	0.0317	0.0121	0.0335
%RSD		66.6374	313.5405	0.7513	1.8732	55.8174	86.7965	15.5933	236.5630

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:26	105.12%	0.1587	0.0310	-0.2808	0.5866	0.0346	0.0356	0.0362
2	21:28:24	101.34%	0.0199	0.0371	0.0562	0.0095	0.0502	0.0443	0.0559
3	21:29:21	98.15%	-0.0218	0.0814	-0.0649	-0.0853	0.0645	0.0532	0.0700
x		101.54%	0.0523	0.0498	-0.0965	0.1703	0.0497	0.0444	0.0540
σ		3.49%	0.0945	0.0275	0.1707	0.3637	0.0149	0.0088	0.0170
%RSD		3.44	180.7847	55.1917	176.8957	213.6059	30.0296	19.7995	31.4867

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:26	98.20%	0.0024	0.0012	-0.0007	-0.0016	0.0010	94.00%	0.0017
2	21:28:24	96.52%	0.0034	0.0041	-0.0007	0.0016	0.0001	94.79%	0.0017
3	21:29:21	95.22%	0.0005	0.0022	-0.0007	-0.0005	0.0055	93.72%	0.0025
x		96.65%	0.0021	0.0025	-0.0007	-0.0002	0.0022	94.17%	0.0020
σ		1.50%	0.0014	0.0015	0.0000	0.0016	0.0029	0.56%	0.0004
%RSD		1.55	68.6051	59.8899	0.0000	1020.8150	131.5340	0.59	21.7499

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:26	0.0013	0.0013	0.0003	0.0002	89.15%	0.0021	0.0025	0.0001
2	21:28:24	0.0031	-0.0021	0.0002	0.0005	90.39%	0.0017	0.0025	0.0005
3	21:29:21	0.0069	-0.0021	-0.0016	0.0026	90.35%	0.0025	0.0028	0.0005
x		0.0038	-0.0009	-0.0004	0.0011	89.96%	0.0021	0.0026	0.0004
σ		0.0029	0.0019	0.0011	0.0013	0.70%	0.0004	0.0002	0.0002
%RSD		76.0184	205.4149	280.1052	117.2623	0.78	19.5801	6.9054	65.8391

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:27:26	0.0019	0.0010
2	21:28:24	-0.0006	0.0017
3	21:29:21	-0.0000	0.0009
x		0.0004	0.0012
σ		0.0013	0.0005
%RSD		306.5891	38.0778

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:08	0.0011	1.5173	111.74%	0.0227	0.1553	0.6029	0.0318	0.0018
2	21:33:05	0.0012	1.4714	108.50%	-0.0090	0.1596	0.6686	0.0352	0.0011
3	21:34:03	0.0013	1.4712	104.67%	-0.0037	0.1429	0.6009	0.0483	0.0012
x		0.0012	1.4867	108.30%	0.0034	0.1526	0.6241	0.0384	0.0014
σ		0.0001	0.0266	3.54%	0.0170	0.0087	0.0386	0.0087	0.0003
%RSD		5.1051	1.7860	3.27	505.8480	5.6803	6.1770	22.6557	24.5826

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:08	0.0219	-0.1603	-2.8293	-0.0837	0.0933	0.5381	0.5441	0.5091
2	21:33:05	0.0102	0.4871	-2.7124	-0.0932	0.0967	0.5278	0.5682	0.5371
3	21:34:03	0.0218	-0.1980	-2.7413	-0.0767	0.0808	0.5758	0.5423	0.5687
x		0.0179	0.0429	-2.7610	-0.0845	0.0903	0.5472	0.5515	0.5383
σ		0.0067	0.3851	0.0609	0.0083	0.0083	0.0253	0.0145	0.0298
%RSD		37.4915	896.7491	2.2044	9.7886	9.2433	4.6170	2.6229	5.5330

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:08	102.58%	0.2097	0.1464	-0.1300	0.8259	0.0204	0.0231	0.0265
2	21:33:05	101.07%	0.1041	0.0375	0.2335	0.3936	0.0176	0.0340	0.0260
3	21:34:03	98.56%	0.1519	-0.0742	0.1037	0.4291	0.0414	0.0243	0.0439
x		100.74%	0.1553	0.0366	0.0691	0.5496	0.0264	0.0271	0.0322
σ		2.03%	0.0529	0.1103	0.1842	0.2400	0.0130	0.0060	0.0102
%RSD		2.02	34.0662	301.4292	266.6765	43.6719	49.1999	22.1191	31.6903

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:08	98.19%	0.0005	0.0007	-0.0007	0.0006	0.0037	93.33%	0.0010
2	21:33:05	96.42%	0.0015	0.0012	0.0015	0.0072	0.0028	92.88%	0.0025
3	21:34:03	94.63%	0.0001	0.0002	0.0038	0.0018	0.0074	92.28%	0.0033
x		96.41%	0.0007	0.0007	0.0015	0.0032	0.0047	92.83%	0.0023
σ		1.78%	0.0007	0.0005	0.0022	0.0035	0.0024	0.53%	0.0011
%RSD		1.85	106.1810	69.1327	146.1169	111.0337	52.2412	0.57	50.5199

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:32:08	0.0041	0.0417	0.0309	0.0384	88.27%	0.0034	0.0029	0.0085
2	21:33:05	0.0051	0.0382	0.0288	0.0426	90.05%	0.0033	0.0042	0.0106
3	21:34:03	0.0061	0.0353	0.0196	0.0402	88.30%	0.0017	0.0046	0.0099
x		0.0051	0.0384	0.0264	0.0404	88.87%	0.0028	0.0039	0.0097
σ		0.0010	0.0032	0.0060	0.0021	1.02%	0.0009	0.0009	0.0010
%RSD		19.1450	8.4265	22.8024	5.2385	1.15	33.1887	22.6632	10.8557

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:32:08	0.0075	0.0094
2	21:33:05	0.0145	0.0111
3	21:34:03	0.0136	0.0127
x		0.0119	0.0111
σ		0.0038	0.0016
%RSD		32.2703	14.8593

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:50	0.0003	1.5195	109.07%	-0.0392	0.1887	0.7508	0.0393	0.0004
2	21:37:48	0.0003	1.5328	103.33%	-0.0046	0.1733	0.7025	0.0431	0.0016
3	21:38:45	0.0013	1.4873	103.96%	0.0720	0.1678	0.5113	0.0367	0.0001
x		0.0006	1.5132	105.45%	0.0094	0.1766	0.6548	0.0397	0.0007
σ		0.0006	0.0234	3.15%	0.0569	0.0108	0.1267	0.0032	0.0008
%RSD		93.4291	1.5454	2.99	604.3597	6.1162	19.3420	8.0802	117.3287

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:50	0.0242	0.0798	-2.7986	-0.0892	0.0872	0.8168	0.8157	0.8592
2	21:37:48	0.0218	0.5363	-2.7765	-0.0890	0.0758	0.8316	0.6240	0.7589
3	21:38:45	0.0289	-0.4135	-2.8101	-0.0864	0.0802	0.8172	0.8056	0.8516
x		0.0250	0.0675	-2.7950	-0.0882	0.0811	0.8218	0.7484	0.8232
σ		0.0036	0.4750	0.0171	0.0015	0.0058	0.0084	0.1079	0.0559
%RSD		14.5232	703.3708	0.6111	1.7560	7.1297	1.0257	14.4145	6.7860

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:50	101.32%	0.0203	-0.0008	0.0781	0.0095	0.0158	0.0183	0.0150
2	21:37:48	99.45%	0.0246	0.0795	0.1356	0.1568	0.0248	0.0351	0.0247
3	21:38:45	99.72%	-0.0186	0.0405	-0.1691	-0.0538	0.0130	0.0164	0.0185
x		100.16%	0.0088	0.0397	0.0149	0.0375	0.0179	0.0233	0.0194
σ		1.01%	0.0238	0.0401	0.1619	0.1080	0.0061	0.0103	0.0049
%RSD		1.01	270.6560	100.9967	1087.5038	288.0028	34.2918	44.1156	25.3640

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:50	96.86%	0.0024	-0.0003	-0.0007	-0.0016	0.0020	92.50%	0.0063
2	21:37:48	93.97%	0.0015	-0.0003	-0.0007	0.0018	0.0011	91.57%	0.0063
3	21:38:45	94.18%	0.0001	0.0002	0.0015	-0.0005	0.0038	92.97%	0.0025
x		95.00%	0.0013	-0.0001	0.0000	-0.0001	0.0023	92.35%	0.0050
σ		1.61%	0.0012	0.0003	0.0013	0.0017	0.0014	0.71%	0.0022
%RSD		1.70	89.0364	264.7197	2867.7313	2144.7092	60.3555	0.77	43.4513

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:36:50	0.0023	0.0556	0.0234	0.0399	87.94%	0.0009	0.0022	0.0053
2	21:37:48	0.0061	0.0558	0.0408	0.0405	89.06%	0.0025	0.0008	0.0061
3	21:38:45	0.0098	0.0347	0.0400	0.0421	91.09%	0.0016	0.0018	0.0091
x		0.0060	0.0487	0.0347	0.0408	89.36%	0.0017	0.0016	0.0068
σ		0.0038	0.0121	0.0098	0.0011	1.60%	0.0008	0.0007	0.0020
%RSD		62.0637	24.8906	28.2657	2.7969	1.79	47.8159	43.9173	29.1554

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:36:50	0.0038	0.0071
2	21:37:48	0.0043	0.0067
3	21:38:45	0.0089	0.0087
x		0.0057	0.0075
σ		0.0028	0.0011
%RSD		49.5447	14.1195

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:33	22.5048	21.7531	107.35%	20.8617	20.9673	20.8632	20.0110	20.4161
2	21:42:31	21.7525	21.2405	101.67%	20.1256	20.4845	20.9212	19.6931	19.3262
3	21:43:28	21.9003	21.5984	99.03%	20.4919	20.9838	21.6588	20.2602	20.2178
x		22.0525	21.5307	102.69%	20.4931	20.8119	21.1477	19.9881	19.9867
σ		0.3986	0.2629	4.25%	0.3681	0.2836	0.4436	0.2843	0.5805
%RSD		1.8073	1.2211	4.14	1.7960	1.3628	2.0974	1.4221	2.9046

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:33	20.4941	21.5057	16.5426	20.3401	20.3139	19.8263	20.2181	20.0972
2	21:42:31	20.3015	21.2243	15.9678	20.2548	20.3870	19.5856	19.7060	19.6575
3	21:43:28	20.2539	21.5168	16.4460	20.2919	20.7060	19.6762	19.8475	19.7555
x		20.3498	21.4156	16.3188	20.2956	20.4690	19.6961	19.9239	19.8367
σ		0.1272	0.1658	0.3078	0.0428	0.2085	0.1216	0.2645	0.2309
%RSD		0.6249	0.7743	1.8861	0.2109	1.0186	0.6173	1.3274	1.1638

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:33	101.29%	19.8061	18.9094	19.5732	20.1294	20.9144	21.3069	20.4684
2	21:42:31	99.13%	19.2346	19.7306	17.6943	17.9546	20.7629	20.9088	20.5642
3	21:43:28	98.51%	19.7836	17.6986	18.8462	18.5719	21.3510	20.6436	20.8565
x		99.64%	19.6081	18.7795	18.7046	18.8853	21.0094	20.9531	20.6297
σ		1.46%	0.3237	1.0222	0.9474	1.1208	0.3054	0.3339	0.2022
%RSD		1.46	1.6508	5.4431	5.0653	5.9345	1.4534	1.5933	0.9799

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:33	94.93%	20.3221	20.5031	19.6574	20.0499	20.2218	92.78%	19.9311
2	21:42:31	93.38%	19.7125	19.9558	19.4575	19.6239	19.5921	92.62%	19.6884
3	21:43:28	94.26%	20.0167	20.1725	19.5072	20.0923	19.6936	91.75%	19.9553
x		94.19%	20.0171	20.2104	19.5407	19.9220	19.8358	92.39%	19.8582
σ		0.78%	0.3048	0.2756	0.1041	0.2590	0.3381	0.56%	0.1476
%RSD		0.82	1.5228	1.3637	0.5326	1.3003	1.7046	0.60	0.7432

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:33	19.7566	20.9711	20.2897	21.0541	89.02%	20.2402	20.2073	19.9891
2	21:42:31	19.5511	20.0110	20.3814	20.4675	90.59%	19.8019	19.7908	19.9420
3	21:43:28	19.8387	20.7003	20.5008	20.7975	90.21%	20.4187	20.4184	20.4724
x		19.7155	20.5608	20.3906	20.7730	89.94%	20.1536	20.1388	20.1345
σ		0.1481	0.4950	0.1058	0.2941	0.82%	0.3174	0.3193	0.2936
%RSD		0.7514	2.4074	0.5190	1.4156	0.91	1.5749	1.5857	1.4581

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:41:33	20.2421	20.0849
2	21:42:31	19.8588	19.9411
3	21:43:28	20.5009	20.4216
x		20.2006	20.1492
σ		0.3230	0.2466
%RSD		1.5991	1.2241

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:50:01	0.0007	0.2557	110.04%	0.0339	0.0729	0.4586	0.0142	-0.0011
2	21:50:58	0.0003	0.2208	106.24%	-0.0065	0.0624	0.4886	0.0153	-0.0003
3	21:51:56	0.0003	0.2337	106.32%	0.0238	0.0536	0.3619	0.0197	-0.0003
x		0.0004	0.2367	107.53%	0.0171	0.0630	0.4364	0.0164	-0.0006
σ		0.0002	0.0176	2.17%	0.0210	0.0097	0.0662	0.0029	0.0004
%RSD		58.1283	7.4517	2.02	122.9513	15.4076	15.1752	17.8259	76.5602

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:50:01	0.0013	0.0819	-2.7869	-0.1669	0.0176	0.0601	0.1518	0.0471
2	21:50:58	-0.0111	0.0728	-2.8747	-0.1659	0.0116	0.0651	0.0547	0.0190
3	21:51:56	-0.0039	-0.4020	-2.8917	-0.1592	0.0132	0.0540	0.1392	0.0256
x		-0.0046	-0.0824	-2.8511	-0.1640	0.0141	0.0597	0.1152	0.0306
σ		0.0062	0.2768	0.0562	0.0042	0.0031	0.0055	0.0528	0.0147
%RSD		135.5955	335.7487	1.9727	2.5631	21.9089	9.2242	45.8031	47.9836

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:50:01	100.69%	0.0962	0.0002	-0.2070	0.3053	0.0650	0.0419	0.0400
2	21:50:58	100.95%	0.0297	0.1134	-0.2386	0.1864	0.0632	0.0495	0.0619
3	21:51:56	100.44%	-0.0005	0.0769	-0.2330	0.0380	0.0572	0.0370	0.0615
x		100.69%	0.0418	0.0635	-0.2262	0.1766	0.0618	0.0428	0.0545
σ		0.25%	0.0495	0.0578	0.0169	0.1339	0.0041	0.0063	0.0125
%RSD		0.25	118.4176	91.0558	7.4545	75.8363	6.5931	14.7918	22.9346

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:50:01	96.40%	0.0000	0.0002	0.0015	-0.0005	0.0019	93.11%	0.0010
2	21:50:58	96.58%	0.0015	0.0022	0.0015	0.0016	0.0019	94.51%	0.0032
3	21:51:56	95.67%	-0.0004	0.0017	-0.0007	0.0006	0.0010	93.47%	0.0025
x		96.22%	0.0004	0.0014	0.0008	0.0006	0.0016	93.70%	0.0022
σ		0.48%	0.0010	0.0010	0.0013	0.0011	0.0005	0.73%	0.0011
%RSD		0.50	272.2676	75.0359	165.4135	182.7567	31.7376	0.78	49.3534

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:50:01	0.0004	0.0148	0.0137	0.0074	87.93%	0.0017	0.0017	-0.0013
2	21:50:58	0.0013	0.0145	0.0077	0.0045	91.29%	0.0020	0.0006	0.0000
3	21:51:56	0.0013	0.0113	0.0059	0.0075	91.09%	0.0016	0.0023	-0.0004
x		0.0010	0.0135	0.0091	0.0065	90.10%	0.0018	0.0015	-0.0006
σ		0.0005	0.0020	0.0041	0.0017	1.89%	0.0002	0.0008	0.0007
%RSD		54.7329	14.5219	44.9439	25.9323	2.09	11.2480	54.6114	115.3410

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:50:01	0.0020	0.0001
2	21:50:58	-0.0012	0.0001
3	21:51:56	0.0006	0.0003
x		0.0004	0.0002
σ		0.0016	0.0001
%RSD		372.4721	93.3970

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:50	22.4013	19.6667	110.75%	19.7910	19.8164	19.5113	19.0836	19.6530
2	21:55:48	22.5066	19.4140	104.48%	20.6047	20.6910	20.8395	19.8166	20.0506
3	21:56:45	22.3956	20.1192	102.00%	19.9191	20.3206	20.9541	19.7171	20.0723
x		22.4345	19.7333	105.75%	20.1049	20.2760	20.4350	19.5391	19.9253
σ		0.0626	0.3573	4.51%	0.4376	0.4390	0.8020	0.3976	0.2361
%RSD		0.2788	1.8106	4.27	2.1764	2.1651	3.9245	2.0348	1.1847

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:50	19.6919	19.7518	15.9497	19.9958	20.0658	19.2540	18.9285	19.4926
2	21:55:48	20.4076	18.7916	16.1618	20.5384	20.8116	19.3995	19.5887	20.1645
3	21:56:45	20.2675	21.2331	15.9100	19.9862	20.2852	19.5263	19.6349	19.6822
x		20.1223	19.9255	16.0072	20.1735	20.3875	19.3932	19.3841	19.7797
σ		0.3793	1.2300	0.1354	0.3161	0.3833	0.1363	0.3952	0.3464
%RSD		1.8849	6.1729	0.8458	1.5667	1.8801	0.7026	2.0387	1.7513

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:50	105.42%	19.3379	19.6575	19.2915	19.6838	19.6328	19.5312	19.4442
2	21:55:48	100.53%	20.4245	20.5579	20.1897	22.6394	20.6674	20.1563	20.1885
3	21:56:45	100.26%	18.9041	20.2505	20.4856	17.6309	20.6472	20.2872	20.6890
x		102.07%	19.5555	20.1553	19.9889	19.9847	20.3158	19.9916	20.1073
σ		2.90%	0.7832	0.4577	0.6218	2.5178	0.5916	0.4040	0.6264
%RSD		2.84	4.0050	2.2708	3.1110	12.5986	2.9121	2.0210	3.1153

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:50	99.69%	19.5108	19.6841	19.5484	19.3502	19.7326	96.71%	19.3278
2	21:55:48	97.47%	19.9292	20.2746	20.0319	19.8823	19.9563	94.76%	19.9365
3	21:56:45	95.87%	20.0817	20.0694	19.9888	19.8483	19.8262	95.48%	19.7832
x		97.68%	19.8405	20.0094	19.8564	19.6936	19.8384	95.65%	19.6825
σ		1.92%	0.2956	0.2998	0.2676	0.2979	0.1123	0.99%	0.3166
%RSD		1.96	1.4899	1.4981	1.3477	1.5125	0.5662	1.03	1.6083

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:50	19.3983	19.8046	19.7715	20.0980	90.28%	20.0034	19.9646	19.9157
2	21:55:48	19.7816	20.2781	20.5401	20.2390	91.07%	20.2484	20.2195	20.1785
3	21:56:45	19.3872	20.3836	20.0729	20.3076	90.94%	20.2222	20.2567	20.0072
x		19.5224	20.1554	20.1282	20.2148	90.76%	20.1580	20.1469	20.0338
σ		0.2245	0.3084	0.3873	0.1069	0.42%	0.1346	0.1590	0.1334
%RSD		1.1502	1.5301	1.9241	0.5286	0.46	0.6675	0.7892	0.6659

Run	Time	207Pb	208Pb
		ppb	ppb
1	21:54:50	19.7659	19.8120
2	21:55:48	19.9484	20.0451
3	21:56:45	20.2317	20.1831
x		19.9820	20.0134
σ		0.2347	0.1876
%RSD		1.1745	0.9373

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:03:58	0.0002	18.3091	116.11%	0.0422	0.2510	0.5628	0.1761	0.0041
2	22:04:56	0.0029	17.6702	111.88%	0.0165	0.1943	0.5723	0.1442	0.0010
3	22:05:53	0.0017	17.7862	105.26%	-0.0325	0.1881	0.7107	0.1643	0.0045
x		0.0016	17.9218	111.08%	0.0087	0.2111	0.6153	0.1615	0.0032
σ		0.0014	0.3403	5.47%	0.0379	0.0347	0.0828	0.0162	0.0019
%RSD		84.5658	1.8990	4.93	433.5643	16.4306	13.4508	10.0019	60.8538

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:03:58	0.0686	0.8510	-2.7563	-0.0867	0.0811	1.2106	1.1246	1.3131
2	22:04:56	0.0485	0.5913	-2.8333	-0.0925	0.0923	1.1854	1.1925	1.1774
3	22:05:53	0.0480	-0.2485	-2.8233	-0.0874	0.1016	1.1220	1.3745	1.3164
x		0.0550	0.3979	-2.8043	-0.0889	0.0917	1.1727	1.2305	1.2690
σ		0.0118	0.5747	0.0419	0.0032	0.0102	0.0457	0.1292	0.0793
%RSD		21.3772	144.4245	1.4926	3.5587	11.1604	3.8954	10.4997	6.2530

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:03:58	103.98%	0.1650	0.0690	-0.2874	0.5878	0.0613	0.0453	0.0504
2	22:04:56	105.87%	-0.1105	0.1020	-0.1415	-0.4677	0.0657	0.1079	0.0686
3	22:05:53	101.54%	-0.0746	0.0743	-0.2783	-0.3431	0.0743	0.0751	0.0954
x		103.80%	-0.0067	0.0818	-0.2357	-0.0744	0.0671	0.0761	0.0715
σ		2.17%	0.1498	0.0177	0.0817	0.5768	0.0066	0.0313	0.0226
%RSD		2.09	2238.7162	21.6927	34.6542	775.7324	9.8622	41.0901	31.6898

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:03:58	99.32%	0.0033	0.0007	-0.0007	0.0005	0.0027	95.17%	0.0075
2	22:04:56	99.41%	0.0014	0.0016	0.0036	0.0005	0.0001	95.74%	0.0067
3	22:05:53	96.92%	0.0010	0.0022	0.0037	0.0038	0.0081	94.33%	0.0112
x		98.55%	0.0019	0.0015	0.0022	0.0016	0.0036	95.08%	0.0085
σ		1.41%	0.0012	0.0008	0.0025	0.0019	0.0041	0.71%	0.0024
%RSD		1.44	64.3708	50.9214	114.2113	119.8647	112.4736	0.74	28.2033

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:03:58	0.0059	0.1404	0.1374	0.1268	89.27%	0.0021	0.0030	0.0292
2	22:04:56	0.0077	0.1353	0.1319	0.1236	91.56%	0.0028	0.0042	0.0297
3	22:05:53	0.0069	0.1273	0.1281	0.1205	90.44%	0.0053	0.0033	0.0233
x		0.0068	0.1344	0.1325	0.1236	90.42%	0.0034	0.0035	0.0274
σ		0.0009	0.0066	0.0047	0.0032	1.15%	0.0017	0.0006	0.0036
%RSD		13.0854	4.9105	3.5418	2.5804	1.27	49.2072	17.9209	13.0169

Run	Time	207Pb	208Pb
		ppb	ppb
1	22:03:58	0.0311	0.0287
2	22:04:56	0.0225	0.0281
3	22:05:53	0.0271	0.0265
x		0.0269	0.0278
σ		0.0043	0.0012
%RSD		15.9793	4.1978

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:08:43	0.0002	18.5656	109.91%	-0.0114	0.2047	0.6292	0.1732	0.0011
2	22:09:41	-0.0002	17.5550	103.83%	-0.0161	0.2067	0.6680	0.1683	0.0008
3	22:10:38	0.0013	17.8570	103.23%	-0.0126	0.1811	0.6161	0.1775	0.0020
x		0.0004	17.9925	105.66%	-0.0134	0.1975	0.6378	0.1730	0.0013
σ		0.0007	0.5187	3.70%	0.0024	0.0142	0.0270	0.0046	0.0006
%RSD		167.2643	2.8829	3.50	18.0929	7.2026	4.2348	2.6636	47.6387

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:08:43	0.0412	0.0067	-2.7425	-0.0877	0.0695	0.9539	1.1448	0.9137
2	22:09:41	0.0412	-0.2728	-2.8593	-0.1030	0.0760	0.9771	0.9199	0.8424
3	22:10:38	0.0324	-0.4601	-2.8523	-0.1098	0.0766	0.8582	1.0251	0.7856
x		0.0383	-0.2421	-2.8180	-0.1002	0.0741	0.9297	1.0299	0.8472
σ		0.0051	0.2349	0.0655	0.0114	0.0040	0.0630	0.1125	0.0642
%RSD		13.2076	97.0408	2.3255	11.3314	5.3476	6.7789	10.9255	7.5743

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:08:43	102.88%	0.1551	-0.0398	-0.1007	0.5370	0.0305	0.0209	0.0319
2	22:09:41	101.30%	-0.0274	0.3385	-0.2877	0.1858	0.0482	0.0465	0.0416
3	22:10:38	100.57%	-0.0559	-0.0757	-0.1552	-0.3476	0.0307	0.0315	0.0461
x		101.59%	0.0239	0.0743	-0.1812	0.1251	0.0365	0.0330	0.0399
σ		1.18%	0.1145	0.2295	0.0961	0.4454	0.0102	0.0129	0.0072
%RSD		1.16	478.8088	308.6668	53.0644	356.0676	27.8990	39.0136	18.1596

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:08:43	96.47%	0.0010	0.0002	-0.0007	0.0017	0.0028	94.02%	0.0054
2	22:09:41	97.31%	0.0005	0.0012	0.0037	0.0027	0.0028	94.49%	0.0047
3	22:10:38	96.33%	0.0000	0.0017	-0.0007	0.0060	0.0046	94.55%	0.0076
x		96.70%	0.0005	0.0010	0.0008	0.0035	0.0034	94.35%	0.0059
σ		0.53%	0.0005	0.0007	0.0025	0.0023	0.0010	0.29%	0.0015
%RSD		0.55	92.2573	73.2277	333.1270	65.2423	30.2865	0.31	25.6641

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:08:43	0.0088	0.1116	0.0875	0.1047	89.01%	0.0017	-0.0002	0.0228
2	22:09:41	0.0087	0.1005	0.1034	0.1019	90.78%	0.0024	0.0021	0.0191
3	22:10:38	0.0105	0.1301	0.0901	0.0976	91.20%	0.0008	0.0021	0.0271
x		0.0093	0.1141	0.0937	0.1014	90.33%	0.0017	0.0014	0.0230
σ		0.0010	0.0149	0.0085	0.0036	1.16%	0.0008	0.0013	0.0040
%RSD		11.2084	13.0747	9.1270	3.5618	1.29	49.0141	97.4835	17.4768

Run	Time	207Pb	208Pb
		ppb	ppb
1	22:08:43	0.0233	0.0213
2	22:09:41	0.0234	0.0235
3	22:10:38	0.0244	0.0252
x		0.0237	0.0233
σ		0.0006	0.0020
%RSD		2.7002	8.4888

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:32	0.0007	4.3282	106.56%	0.0081	0.0719	0.4150	0.0326	0.0008
2	22:14:29	0.0013	4.7360	102.18%	-0.0599	0.0676	0.5890	0.0378	0.0009
3	22:15:26	-0.0007	4.6648	99.61%	-0.0334	0.0504	0.5769	0.0402	0.0017
x		0.0005	4.5763	102.78%	-0.0284	0.0633	0.5270	0.0369	0.0011
σ		0.0010	0.2178	3.51%	0.0342	0.0113	0.0972	0.0039	0.0005
%RSD		219.7594	4.7599	3.42	120.5204	17.9355	18.4405	10.5509	44.7534

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:32	0.0050	0.2808	-2.8940	-0.1407	0.0163	0.6104	0.6436	0.6520
2	22:14:29	0.0073	0.0204	-2.9213	-0.1426	0.0355	0.5778	0.5983	0.5541
3	22:15:26	0.0038	-0.9887	-2.8878	-0.1375	0.0485	0.7228	0.7748	0.6831
x		0.0054	-0.2292	-2.9010	-0.1403	0.0334	0.6370	0.6723	0.6298
σ		0.0018	0.6706	0.0178	0.0026	0.0162	0.0761	0.0917	0.0673
%RSD		32.8787	292.5984	0.6150	1.8481	48.5279	11.9415	13.6390	10.6898

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:32	100.37%	0.0025	0.0768	-0.1118	0.0378	0.0111	0.0082	0.0091
2	22:14:29	99.17%	0.0956	-0.0747	-0.2389	0.2768	0.0046	0.0136	0.0082
3	22:15:26	98.82%	-0.0570	0.3125	-0.1509	0.0359	0.0230	0.0084	0.0215
x		99.45%	0.0137	0.1049	-0.1672	0.1169	0.0129	0.0100	0.0129
σ		0.81%	0.0769	0.1951	0.0651	0.1385	0.0093	0.0030	0.0074
%RSD		0.81	562.6776	186.0269	38.9401	118.5394	72.2659	30.2476	57.4593

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:32	96.06%	-0.0004	0.0002	-0.0007	-0.0027	0.0072	94.31%	0.0017
2	22:14:29	95.38%	0.0005	-0.0003	-0.0007	-0.0005	0.0019	94.78%	0.0025
3	22:15:26	94.57%	0.0015	0.0022	-0.0007	-0.0016	-0.0008	92.77%	0.0025
x		95.34%	0.0005	0.0007	-0.0007	-0.0016	0.0028	93.96%	0.0022
σ		0.74%	0.0010	0.0013	0.0000	0.0011	0.0041	1.05%	0.0004
%RSD		0.78	181.1742	185.5811	0.0000	67.8640	146.6873	1.12	19.2176

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:32	0.0022	0.0512	0.0475	0.0482	89.42%	0.0001	-0.0002	0.0056
2	22:14:29	0.0040	0.0541	0.0545	0.0558	90.91%	0.0020	0.0015	0.0082
3	22:15:26	0.0022	0.0615	0.0609	0.0483	91.00%	0.0004	0.0003	0.0068
x		0.0028	0.0556	0.0543	0.0508	90.44%	0.0008	0.0005	0.0069
σ		0.0010	0.0053	0.0067	0.0044	0.89%	0.0011	0.0008	0.0013
%RSD		37.0564	9.5711	12.4012	8.5852	0.98	125.7108	159.3227	18.7617

Run	Time	207Pb	208Pb
		ppb	ppb
1	22:13:32	0.0043	0.0054
2	22:14:29	0.0090	0.0080
3	22:15:26	0.0083	0.0075
x		0.0072	0.0069
σ		0.0025	0.0014
%RSD		35.1781	19.5893

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:16	22.5465	36.6870	110.00%	20.2474	20.5028	21.0825	20.1585	19.9061
2	22:19:13	21.6464	36.4878	104.63%	20.3183	20.5141	20.9205	20.1100	19.9092
3	22:20:11	22.2389	37.4598	100.36%	21.2555	21.5179	22.1259	20.4679	20.6449
x		22.1439	36.8782	105.00%	20.6071	20.8450	21.3763	20.2455	20.1534
σ		0.4575	0.5135	4.83%	0.5627	0.5829	0.6542	0.1941	0.4257
%RSD		2.0660	1.3923	4.60	2.7304	2.7961	3.0604	0.9589	2.1123

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:16	20.3307	20.2906	16.8366	20.8926	20.9085	20.6914	21.3080	21.2572
2	22:19:13	20.4802	20.9128	16.8307	21.0176	20.9472	20.7717	20.5056	20.4852
3	22:20:11	20.7188	22.2698	16.8605	21.2113	21.7872	21.6439	21.3321	21.8687
x		20.5099	21.1577	16.8426	21.0405	21.2143	21.0357	21.0486	21.2037
σ		0.1958	1.0121	0.0158	0.1606	0.4965	0.5283	0.4704	0.6933
%RSD		0.9544	4.7836	0.0937	0.7631	2.3405	2.5114	2.2348	3.2698

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:16	104.99%	20.7642	20.1413	20.2898	21.2924	20.4232	20.1315	20.1900
2	22:19:13	100.88%	20.4924	20.6141	20.0072	21.9261	20.6349	20.5218	20.5363
3	22:20:11	98.50%	19.7689	21.4674	19.8849	19.5466	21.5464	21.3634	21.5683
x		101.46%	20.3418	20.7409	20.0606	20.9217	20.8682	20.6722	20.7649
σ		3.29%	0.5144	0.6720	0.2076	1.2323	0.5968	0.6296	0.7170
%RSD		3.24	2.5290	3.2402	1.0351	5.8901	2.8599	3.0457	3.4529

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:16	98.32%	9.7213	9.6926	20.3025	19.8277	20.2332	97.44%	20.1005
2	22:19:13	96.53%	9.5678	9.7847	20.1588	20.3991	20.3352	95.65%	20.4132
3	22:20:11	94.21%	9.8617	10.0798	20.8390	20.6852	21.0415	93.42%	21.2152
x		96.36%	9.7170	9.8524	20.4334	20.3040	20.5366	95.50%	20.5763
σ		2.06%	0.1470	0.2023	0.3585	0.4366	0.4402	2.02%	0.5750
%RSD		2.14	1.5127	2.0530	1.7544	2.1503	2.1435	2.11	2.7943

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:16	19.8043	20.9412	20.5644	20.6156	92.01%	20.6764	20.5837	20.3565
2	22:19:13	20.1559	20.7702	20.2510	20.7409	91.92%	20.5609	20.5784	20.6524
3	22:20:11	20.5975	20.8091	20.7896	21.2115	91.03%	21.1490	21.0111	21.1674
x		20.1859	20.8402	20.5350	20.8560	91.65%	20.7954	20.7244	20.7254
σ		0.3975	0.0896	0.2705	0.3142	0.54%	0.3116	0.2483	0.4103
%RSD		1.9690	0.4302	1.3173	1.5066	0.59	1.4983	1.1981	1.9799

Run	Time	207Pb	208Pb
		ppb	ppb
1	22:18:16	20.2448	20.3034
2	22:19:13	20.7409	20.6445
3	22:20:11	21.1507	21.1631
x		20.7121	20.7037
σ		0.4537	0.4329
%RSD		2.1903	2.0908

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User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:27:16	23.2812	37.8538	115.25%	20.4154	20.6533	20.4569	20.1893	20.4818
2	22:28:14	22.5328	37.3513	106.96%	20.3336	20.6344	20.5409	20.0665	20.2819
3	22:29:11	21.9750	37.1271	102.90%	20.5622	20.9139	21.2744	20.3574	20.2807
x		22.5963	37.4440	108.37%	20.4371	20.7339	20.7574	20.2044	20.3481
σ		0.6554	0.3721	6.30%	0.1159	0.1562	0.4497	0.1460	0.1157
%RSD		2.9004	0.9938	5.81	0.5670	0.7534	2.1663	0.7228	0.5687

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:27:16	20.3991	20.3993	16.7203	20.9086	21.2717	20.8534	20.6686	21.4075
2	22:28:14	20.5278	19.6718	16.1768	20.9018	20.8647	20.5901	21.1563	20.9014
3	22:29:11	20.1998	19.6316	16.5360	20.5806	20.6921	21.0452	21.1309	21.1488
x		20.3756	19.9009	16.4777	20.7970	20.9428	20.8296	20.9853	21.1526
σ		0.1653	0.4321	0.2764	0.1874	0.2976	0.2285	0.2745	0.2530
%RSD		0.8111	2.1711	1.6773	0.9011	1.4211	1.0970	1.3081	1.1962

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:27:16	104.14%	21.4696	20.5971	20.6838	22.4082	20.7146	20.5251	20.6764
2	22:28:14	102.09%	20.4943	19.5977	18.6957	20.8378	20.5765	20.3777	20.4785
3	22:29:11	100.65%	20.3223	19.6583	19.8587	20.7430	21.2925	20.9262	21.1611
x		102.29%	20.7621	19.9510	19.7461	21.3297	20.8612	20.6097	20.7720
σ		1.75%	0.6188	0.5603	0.9988	0.9353	0.3799	0.2839	0.3512
%RSD		1.71	2.9803	2.8085	5.0581	4.3848	1.8210	1.3773	1.6907

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:27:16	99.43%	20.5857	20.5299	20.0017	20.2157	20.7101	96.16%	20.1973
2	22:28:14	98.24%	20.1641	20.2079	19.6445	20.0322	19.8234	96.24%	20.0698
3	22:29:11	95.75%	20.3498	20.5731	19.9465	20.5155	20.3366	94.23%	20.4096
x		97.81%	20.3665	20.4370	19.8642	20.2545	20.2901	95.54%	20.2256
σ		1.88%	0.2113	0.1996	0.1923	0.2440	0.4452	1.14%	0.1717
%RSD		1.92	1.0375	0.9765	0.9678	1.2046	2.1940	1.19	0.8488

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:27:16	19.9465	20.8916	20.6281	20.7501	91.06%	20.2639	20.4113	20.1276
2	22:28:14	19.5631	20.1522	20.5228	20.4858	91.74%	20.1683	20.4045	20.2508
3	22:29:11	20.2852	20.5915	20.6740	20.9051	91.07%	20.7705	20.6603	20.6078
x		19.9316	20.5451	20.6083	20.7137	91.29%	20.4009	20.4920	20.3287
σ		0.3613	0.3719	0.0775	0.2120	0.39%	0.3236	0.1458	0.2494
%RSD		1.8128	1.8101	0.3761	1.0234	0.43	1.5864	0.7113	1.2270

Run	Time	207Pb	208Pb
		ppb	ppb
1	22:27:16	20.3442	20.2070
2	22:28:14	20.1493	20.1909
3	22:29:11	20.6692	20.6238
x		20.3876	20.3406
σ		0.2627	0.2454
%RSD		1.2885	1.2067

CCV5 12/11/2009 10:45:24 PM

User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:45:24	28.5764	25.9890	112.27%	25.3647	25.6980	26.0069	24.6665	25.4280
2	22:46:22	27.7012	25.7734	107.20%	25.4683	25.8126	26.4866	24.6434	24.8901
3	22:47:19	26.9507	25.2038	103.30%	25.2753	25.4294	26.0363	24.7369	24.9016
x		27.7428	25.6554	107.59%	25.3695	25.6467	26.1766	24.6822	25.0732
σ		0.8136	0.4057	4.50%	0.0966	0.1967	0.2689	0.0487	0.3073
%RSD		2.9328	1.5812	4.18	0.3808	0.7668	1.0271	0.1974	1.2256

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:45:24	26.0653	25.4571	22.1722	25.6720	26.0909	25.1154	26.3250	25.1722
2	22:46:22	25.3099	27.0895	21.5534	25.9381	26.0252	25.4303	25.5674	25.2422
3	22:47:19	25.3789	26.0838	20.2098	25.0430	25.2386	24.6005	23.8787	24.3985
x		25.5847	26.2102	21.3118	25.5510	25.7849	25.0487	25.2570	24.9376
σ		0.4177	0.8235	1.0033	0.4596	0.4742	0.4189	1.2523	0.4682
%RSD		1.6324	3.1419	4.7076	1.7989	1.8392	1.6724	4.9583	1.8776

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:45:24	104.70%	25.8246	26.2539	25.9789	25.7475	25.3443	25.3645	25.3786
2	22:46:22	102.01%	25.8200	25.0891	25.2481	25.3111	25.9272	25.3210	25.5139
3	22:47:19	102.57%	25.0411	25.7898	25.6202	26.5465	25.7254	25.9820	25.8733
x		103.09%	25.5619	25.7109	25.6157	25.8684	25.6656	25.5558	25.5886
σ		1.42%	0.4510	0.5864	0.3654	0.6265	0.2960	0.3697	0.2557
%RSD		1.38	1.7644	2.2806	1.4265	2.4218	1.1534	1.4467	0.9992

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:45:24	98.63%	25.8069	25.9194	25.4641	25.3256	25.4716	96.88%	25.3905
2	22:46:22	97.94%	25.5204	25.9343	25.0474	25.1687	25.4314	95.75%	25.3667
3	22:47:19	96.00%	25.3216	25.6426	24.8853	25.2427	25.4824	93.78%	25.5568
x		97.52%	25.5496	25.8321	25.1322	25.2457	25.4618	95.47%	25.4380
σ		1.37%	0.2440	0.1643	0.2986	0.0785	0.0269	1.57%	0.1036
%RSD		1.40	0.9549	0.6359	1.1880	0.3110	0.1055	1.64	0.4072

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:45:24	24.7547	26.2746	25.6328	25.7940	90.74%	25.6984	25.5882	25.5058
2	22:46:22	25.0187	25.4098	25.4076	25.5475	92.19%	25.4858	25.5274	25.3635
3	22:47:19	25.3404	25.8044	25.3345	25.8958	92.63%	25.4663	25.5167	25.5722
x		25.0379	25.8296	25.4583	25.7458	91.85%	25.5502	25.5441	25.4805
σ		0.2933	0.4330	0.1555	0.1791	0.99%	0.1288	0.0386	0.1066
%RSD		1.1714	1.6763	0.6108	0.6957	1.07	0.5040	0.1511	0.4184

Run	Time	207Pb	208Pb
		ppb	ppb
1	22:45:24	25.2370	25.3898
2	22:46:22	25.3422	25.4335
3	22:47:19	25.4952	25.4448
x		25.3582	25.4227
σ		0.1298	0.0290
%RSD		0.5119	0.1142

CCB5 12/11/2009 11:04:00 PM

User Pre-dilution: 1.000

Run	Time	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn	59Co
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:00	0.0011	0.0074	112.12%	0.0403	0.0642	0.1950	0.0102	-0.0004
2	23:04:58	0.0012	0.0076	109.30%	0.0107	0.0203	0.2282	0.0039	0.0003
3	23:05:55	0.0008	0.0127	104.64%	-0.0240	0.0316	0.3373	0.0025	0.0019
x		0.0010	0.0093	108.69%	0.0090	0.0387	0.2535	0.0055	0.0006
σ		0.0002	0.0030	3.77%	0.0322	0.0228	0.0744	0.0041	0.0012
%RSD		21.2558	32.3748	3.47	356.5651	59.0402	29.3612	74.6431	196.9065

Run	Time	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:00	-0.0042	-0.4027	-2.9048	-0.1632	0.0066	0.0160	0.0112	-0.0039
2	23:04:58	-0.0041	-0.0398	-2.9014	-0.1717	0.0096	0.0425	0.0517	0.0020
3	23:05:55	-0.0075	0.0941	-2.9020	-0.1676	0.0053	0.0279	0.0531	0.0026
x		-0.0053	-0.1161	-2.9027	-0.1675	0.0071	0.0288	0.0387	0.0002
σ		0.0020	0.2570	0.0018	0.0042	0.0022	0.0133	0.0238	0.0036
%RSD		36.9884	221.3459	0.0629	2.5331	30.6431	46.0661	61.6328	1598.0825

Run	Time	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo	98Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:00	103.00%	0.2798	-0.0403	-0.4139	0.9691	0.0444	0.0663	0.0490
2	23:04:58	103.69%	-0.0469	-0.0781	-0.4769	-0.2442	0.0671	0.0599	0.0787
3	23:05:55	103.00%	0.1235	0.0703	0.0728	0.5317	0.0674	0.0702	0.0964
x		103.23%	0.1188	-0.0160	-0.2727	0.4189	0.0596	0.0654	0.0747
σ		0.40%	0.1634	0.0771	0.3008	0.6145	0.0132	0.0052	0.0240
%RSD		0.38	137.5811	481.2323	110.3149	146.6993	22.1413	7.9434	32.0559

Run	Time	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In	121Sb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:00	98.25%	0.0028	0.0021	-0.0007	-0.0016	-0.0008	95.76%	0.0032
2	23:04:58	100.40%	0.0014	0.0040	-0.0007	0.0036	0.0018	97.38%	0.0010
3	23:05:55	100.10%	0.0028	0.0045	-0.0007	-0.0038	0.0018	96.17%	0.0074
x		99.58%	0.0023	0.0035	-0.0007	-0.0006	0.0009	96.43%	0.0038
σ		1.17%	0.0008	0.0012	0.0000	0.0038	0.0015	0.84%	0.0033
%RSD		1.17	35.2537	35.1744	0.0000	610.1622	160.9306	0.87	85.4579

Run	Time	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl	206Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:00	0.0022	0.0045	0.0058	0.0008	90.22%	0.0029	0.0018	0.0010
2	23:04:58	0.0021	0.0044	0.0056	0.0004	93.12%	0.0023	0.0040	-0.0005
3	23:05:55	0.0021	0.0012	0.0001	0.0004	93.71%	0.0019	0.0027	0.0012
x		0.0021	0.0034	0.0038	0.0005	92.35%	0.0024	0.0028	0.0006
σ		0.0000	0.0019	0.0032	0.0002	1.87%	0.0005	0.0011	0.0009
%RSD		1.2006	56.1645	83.5765	37.7948	2.02	19.9126	38.6892	163.2489

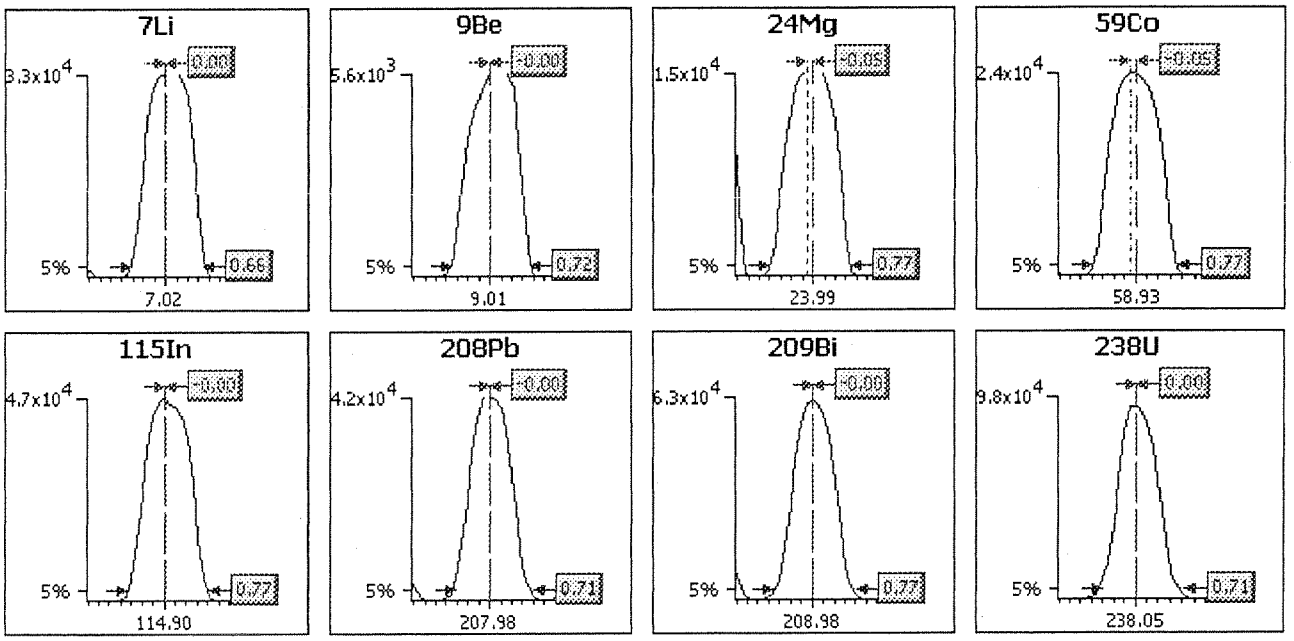
Run	Time	207Pb	208Pb
		ppb	ppb
1	23:04:00	0.0042	0.0015
2	23:04:58	0.0011	0.0008
3	23:05:55	-0.0013	0.0012
x		0.0013	0.0012
σ		0.0028	0.0003
%RSD		208.2780	26.8678

Performance Report

Sample details
Acquired at : 12/12/2009 05:25:31 PM
Report name : Kelso Performance Report 2 [01/23/2008 04:49:11 PM]

Mass Calibration verification

Acquisition parameters
Sweeps : 100
Dwell : 1.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.66	0.00
9Be	0.90	0.60	0.10	0.72	-0.00
24Mg	0.90	0.60	0.10	0.77	-0.05
59Co	0.90	0.60	0.10	0.77	-0.05
115In	0.90	0.60	0.10	0.77	-0.00
208Pb	0.90	0.60	0.10	0.71	-0.00
209Bi	0.90	0.60	0.10	0.77	-0.00
238U	0.90	0.60	0.10	0.71	0.00

Sample details
Acquired at : 12/12/2009 05:25:31 PM
Report name : Kelso Performance Report 2 [01/23/2008 04:49:11 PM]

Tune conditions

Major	
Extraction	-141
Lens 1	2.9
Focus	24.1
D1	-33.7
Pole Bias	3.0
Hexapole Bias	1.2
Nebuliser	0.74
Sampling Depth	21

Minor	
Lens 2	-15.7
Lens 3	-171.8
Forward power	1247
Horizontal	104
Vertical	50
D2	-144
DA	-25.9
Cool	13.0
Auxiliary	0.86

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1500
PC Detector	3578

Add. Gases

Sensitivity and stability results

Acquisition parameters
Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	Countrate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	05:26:03 PM	0.000	34044.126	5724.802	15561.057	24122.211	48961.242	52638.706	922.547	44468.243
2	05:27:16 PM	0.000	34413.764	5747.066	15680.261	24262.083	49152.771	52921.843	946.299	44958.897
3	05:28:28 PM	0.000	35969.770	6078.531	16286.075	25165.283	49902.841	53601.306	991.054	45065.172
4	05:29:41 PM	0.000	33724.438	5625.240	15285.590	23993.120	48836.574	52588.416	905.795	44760.673
5	05:30:54 PM	0.000	34882.545	5837.374	15667.489	24478.411	49781.428	53363.664	945.299	45215.666
x		0.000	34606.929	5802.603	15696.094	24404.222	49326.971	53022.787	942.199	44893.730
σ		0.00	875.52	171.71	366.02	461.91	485.48	446.45	32.11	289.84
%RSD		0.000	2.530	2.959	2.332	1.893	0.984	0.842	3.408	0.646

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	Countrate	>1000	-	>1000
1	05:26:03 PM	64739.448	0.000	99139.392
2	05:27:16 PM	65095.980	0.000	99877.658
3	05:28:28 PM	65157.670	0.250	100152.66
4	05:29:41 PM	65124.685	0.000	99750.270
5	05:30:54 PM	65539.903	0.000	100726.19
x		65131.537	0.050	99929.234
σ		283.94	0.11	579.57
%RSD		0.436	223.607	0.580

Ratio results

Run	Time	156Ce O/140Ce
	Ratio limits	<0.0200
1	05:26:03 PM	0.018
2	05:27:16 PM	0.018
3	05:28:28 PM	0.018
4	05:29:41 PM	0.017
5	05:30:54 PM	0.018
x		0.0178
σ		0.00
%RSD		2.6553

Result : The performance report passed.

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	150
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	150
3	ICV1	Unknown	1.000	0	1	3	150
4	CCV1	Unknown	1.000	0	1	2	150
5	ICB1	Unknown	1.000	0	1	1	150
6	CCB1	Unknown	1.000	0	1	1	150
7	CRA	Unknown	1.000	0	1	4	150
8	ICSA	Unknown	1.000	0	1	5	150
9	ICSAB	Unknown	1.000	0	1	6	150
10	LCSW K0911380	Unknown	1.000	1	1	2	150
11	K0911380-MB	Unknown	1.000	1	1	1	150
12	K0911380-001	Unknown	1.000	1	1	3	150
13	K0911380-001D	Unknown	1.000	1	1	4	150
14	K0911380-001 1/5L	Unknown	1.000	1	1	5	150
15	K0911380-001A	Unknown	1.000	1	1	6	150
16	K0911380-001S	Unknown	1.000	1	1	7	150
17	CCV2	Unknown	1.000	0	1	2	150
18	CCB2	Unknown	1.000	0	1	1	150
19	K0911380-002	Unknown	1.000	1	1	8	150
20	K0911380-003	Unknown	1.000	1	1	9	150
21	K0911380-004	Unknown	1.000	1	1	10	150
22	K0911380-005	Unknown	1.000	1	1	11	150
23	K0911380-006	Unknown	1.000	1	1	12	150
24	K0911380-007	Unknown	1.000	1	2	1	150
25	K0911380-008	Unknown	1.000	1	2	2	150
26	K0911380-001 DISS	Unknown	1.000	1	2	3	150
27	K0911380-002 DISS	Unknown	1.000	1	2	4	150
28	K0911380-003 DISS	Unknown	1.000	1	2	5	150
29	CCV3	Unknown	1.000	0	1	2	150
30	CCB3	Unknown	1.000	0	1	1	150
31	K0911380-004 DISS	Unknown	1.000	1	2	6	150
32	K0911380-005 DISS	Unknown	1.000	1	2	7	150
33	K0911380-006 DISS	Unknown	1.000	1	2	8	150
34	K0911380-007 DISS	Unknown	1.000	1	2	9	150
35	K0911380-008 DISS	Unknown	1.000	1	2	10	150
36	K0911724-MB	Unknown	1.000	1	2	11	150
37	LCSW K0911724	Unknown	1.000	1	2	12	150
38	K0911724-001	Unknown	1.000	1	3	1	150
39	K0911724-001D	Unknown	1.000	1	3	2	150
40	K0911724-001 1/5L	Unknown	1.000	1	3	3	150
41	CCV4	Unknown	1.000	0	1	2	150
42	CCB4	Unknown	1.000	0	1	1	150
43	K0911724-001A	Unknown	1.000	1	3	4	150
44	K0911724-001S	Unknown	1.000	1	3	5	150
45	K0911724-002	Unknown	1.000	1	3	6	150
46	K0911724-003	Unknown	1.000	1	3	7	150
47	K0911724-004	Unknown	1.000	1	3	8	150
48	K0911724-005	Unknown	1.000	1	3	9	150
49	K0911724-006	Unknown	1.000	1	3	10	150
50	K0911353-MB	Unknown	1.000	1	3	11	150
51	LCSW K0911353	Unknown	1.000	1	3	12	150
52	K0911353-001	Unknown	1.000	1	4	1	150
53	CCV5	Unknown	1.000	0	1	2	150
54	CCB5	Unknown	1.000	0	1	1	150
55	K0911353-001D	Unknown	1.000	1	4	2	150
56	K0911353-001 1/5L	Unknown	1.000	1	4	3	150
57	K0911353-001A	Unknown	1.000	1	4	4	150
58	K0911353-001S	Unknown	1.000	1	4	5	150
59	K0911353-002	Unknown	1.000	1	4	6	150
60	K0911353-003	Unknown	1.000	1	4	7	150
61	K0911353-004	Unknown	1.000	1	4	8	150
62	K0911353-005	Unknown	1.000	1	4	9	150
63	K0911353-006	Unknown	1.000	1	4	10	150
64	K0911353-007	Unknown	1.000	1	4	11	150
65	CCV6	Unknown	1.000	0	1	2	150
66	CCB6	Unknown	1.000	0	1	1	150
67	K0911353-008	Unknown	1.000	1	4	12	150

68	K0911353-001 DISS	Unknown	1.000	1	5	1	150
69	K0911353-002 DISS	Unknown	1.000	1	5	2	150
70	K0911353-003 DISS	Unknown	1.000	1	5	3	150
71	K0911353-004 DISS	Unknown	1.000	1	5	4	150
72	K0911353-005 DISS	Unknown	1.000	1	5	5	150
73	K0911353-006 DISS	Unknown	1.000	1	5	6	150
74	K0911353-007 DISS	Unknown	1.000	1	5	7	150
75	K0911373-001	Unknown	1.000	1	5	8	150
76	K0911373-002	Unknown	1.000	1	5	9	150
77	CCV7	Unknown	1.000	0	1	2	150
78	CCB7	Unknown	1.000	0	1	1	150
79	K0911373-002D	Unknown	1.000	1	5	10	150
80	K0911373-002S	Unknown	1.000	1	5	11	150
81	K0911373-001 DISS	Unknown	1.000	1	5	12	150
82	K0911373-002 DISS	Unknown	1.000	2	1	1	150
83	K0911373-003 DISS	Unknown	1.000	2	1	2	150
84	K0911783-MB	Unknown	1.000	2	1	3	150
85	LCSW K0911783	Unknown	1.000	2	1	4	150
86	K0911783-001	Unknown	1.000	2	1	5	150
87	K0911783-001D	Unknown	1.000	2	1	6	150
88	K0911783-001 1/5L	Unknown	1.000	2	1	7	150
89	CCV8	Unknown	1.000	0	1	2	150
90	CCB8	Unknown	1.000	0	1	3	150
91	K0911783-001A	Unknown	1.000	2	1	8	150
92	K0911783-001S	Unknown	1.000	2	1	9	150
93	K0911290-MB	Unknown	1.000	2	1	10	150
94	LCSW K0911290	Unknown	1.000	2	1	11	150
95	K0911290-001	Unknown	1.000	2	1	12	150
96	K0911290-001D	Unknown	1.000	2	2	1	150
97	K0911290-001 1/5L	Unknown	1.000	2	2	2	150
98	K0911290-001A	Unknown	1.000	2	2	3	150
99	K0911290-001S	Unknown	1.000	2	2	4	150
100	K0911290-002	Unknown	1.000	2	2	5	150
101	CCV9	Unknown	1.000	0	1	4	150
102	CCB9	Unknown	1.000	0	1	3	150
103	K0911290-003	Unknown	1.000	2	2	6	150
104	K0911290-004	Unknown	1.000	2	2	7	150
105	K0911290-005	Unknown	1.000	2	2	8	150
106	K0911290-006	Unknown	1.000	2	2	9	150
107	K0911290-007	Unknown	1.000	2	2	10	150
108	K0911354-MB	Unknown	1.000	2	2	11	150
109	LCSW K0911354	Unknown	1.000	2	2	12	150
110	K0911354-001	Unknown	1.000	2	3	1	150
111	K0911354-002	Unknown	1.000	2	3	2	150
112	K0911354-002 1/5L	Unknown	1.000	2	3	3	150
113	CCV10	Unknown	1.000	0	1	4	150
114	CCB10	Unknown	1.000	0	1	3	150
115	K0911354-002A	Unknown	1.000	2	3	4	150
116	K0911354-003	Unknown	1.000	2	3	5	150
117	K0911354-004	Unknown	1.000	2	3	6	150
118	K0911354-005	Unknown	1.000	2	3	7	150
119	K0911354-005D	Unknown	1.000	2	3	8	150
120	K0911354-005S	Unknown	1.000	2	3	9	150
121	K0911354-006	Unknown	1.000	2	3	10	150
122	K0911354-007	Unknown	1.000	2	3	11	150
123	K0911354-001 DISS	Unknown	1.000	2	3	12	150
124	K0911354-002 DISS	Unknown	1.000	2	4	1	150
125	CCV11	Unknown	1.000	0	1	4	150
126	CCB11	Unknown	1.000	0	1	3	150
127	K0911354-003 DISS	Unknown	1.000	2	4	2	150
128	K0911354-004 DISS	Unknown	1.000	2	4	3	150
129	K0911354-005 DISS	Unknown	1.000	2	4	4	150
130	K0911354-006 DISS	Unknown	1.000	2	4	5	150
131	K0911354-007 DISS	Unknown	1.000	2	4	6	150
132	K0910769-007	Unknown	1.000	2	4	7	150
133	K0910769-007 1/5L	Unknown	1.000	2	4	8	150
134	K0910769-007A	Unknown	1.000	2	4	9	150
135	K0911740-001 1/100	Unknown	1.000	2	4	10	150
136	K0911740-001 1/5	Unknown	1.000	2	4	11	150
137	CCV12	Unknown	1.000	0	1	4	150

138	CCB12	Unknown	1.000	0	1	3	150
139	K0911740-002 1/5	Unknown	1.000	2	4	12	150
140	K0911740-003 1/5	Unknown	1.000	2	5	1	150
141	K0911740-002 DISS 1/5	Unknown	1.000	2	5	2	150
142	K0911120-MB	Unknown	1.000	2	5	3	150
143	CCV13	Unknown	1.000	0	1	4	150
144	CCB13	Unknown	1.000	0	1	3	150

Dilution Corrected Concentrations

Cal. Blk 12/12/2009 05:41:24 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:24	105.29%	-0.0004	-0.0284	102.78%	0.0029	0.0184	-0.0018	-0.0003
2	17:42:21	96.17%	0.0012	0.0265	95.93%	0.0194	-0.0046	-0.0471	-0.0025
3	17:43:19	98.54%	-0.0009	0.0019	101.29%	-0.0223	-0.0138	0.0489	0.0028
x		100.00%	0.0000	0.0000	100.00%	0.0000	-0.0000	0.0000	-0.0000
σ		4.73%	0.0011	0.0275	3.60%	0.0210	0.0166	0.0480	0.0027
%RSD		4.73	0.0000	0.0000	3.60	0.0000	0.0000	0.0000	0.0000

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:24	-0.0012	-0.0008	0.4293	0.1121	-0.0037	0.0013	-0.0146	-0.0230
2	17:42:21	-0.0000	-0.0007	-0.3466	-0.0917	-0.0065	0.0022	-0.0062	0.0115
3	17:43:19	0.0012	0.0015	-0.0827	-0.0204	0.0101	-0.0035	0.0208	0.0115
x		0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	-0.0000	0.0000
σ		0.0012	0.0013	0.3945	0.1034	0.0089	0.0030	0.0185	0.0199
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:24	-0.0307	101.74%	0.0246	-0.0618	-0.0541	0.0697	-0.0006	0.0009
2	17:42:21	0.0301	99.68%	-0.0825	0.0305	0.0845	-0.3018	0.0012	-0.0018
3	17:43:19	0.0006	98.59%	0.0579	0.0313	-0.0304	0.2322	-0.0006	0.0009
x		0.0000	100.00%	0.0000	-0.0000	-0.0000	0.0000	0.0000	-0.0000
σ		0.0304	1.60%	0.0734	0.0536	0.0741	0.2737	0.0010	0.0016
%RSD		0.0000	1.60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:24	0.0003	101.32%	0.0010	-0.0022	0.0000	0.0020	0.0009	101.73%
2	17:42:21	-0.0006	98.43%	0.0000	0.0022	0.0000	-0.0004	-0.0009	98.36%
3	17:43:19	0.0004	100.25%	-0.0010	-0.0000	0.0000	-0.0016	0.0000	99.91%
x		-0.0000	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	100.00%
σ		0.0005	1.46%	0.0010	0.0022	0.0000	0.0018	0.0009	1.68%
%RSD		0.0000	1.46	0.0000	0.0000	0.0000	0.0000	0.0000	1.68

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:24	-0.0000	0.0023	-0.0071	-0.0001	-0.0005	100.57%	-0.0017	-0.0016
2	17:42:21	0.0008	-0.0016	0.0072	0.0020	-0.0017	98.64%	0.0020	0.0004
3	17:43:19	-0.0008	-0.0006	-0.0001	-0.0020	0.0022	100.79%	-0.0004	0.0012
x		0.0000	-0.0000	0.0000	0.0000	-0.0000	100.00%	0.0000	0.0000
σ		0.0008	0.0020	0.0071	0.0020	0.0020	1.18%	0.0019	0.0015
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.18	0.0000	0.0000

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	17:41:24	-0.0023	-0.0017	-0.0018
2	17:42:21	0.0032	0.0022	0.0016
3	17:43:19	-0.0009	-0.0005	0.0002
x		0.0000	0.0000	-0.0000
σ		0.0028	0.0020	0.0017
%RSD		0.0000	0.0000	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:45:31	108.71%	24.5796	24.3841	102.04%	24.7586	24.7881	24.7338	24.6785
2	17:46:28	96.42%	25.6575	25.8188	96.31%	25.6225	25.8115	25.8182	25.7025
3	17:47:26	94.95%	24.7629	24.7971	95.83%	24.6189	24.4004	24.4479	24.6190
x		100.03%	25.0000	25.0000	98.06%	25.0000	25.0000	25.0000	25.0000
σ		7.56%	0.5767	0.7385	3.46%	0.5436	0.7290	0.7229	0.6091
%RSD		7.56	2.3069	2.9541	3.52	2.1746	2.9161	2.8916	2.4364

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:45:31	24.5262	24.8805	24.1756	24.5910	24.5671	24.4243	23.7664	24.6134
2	17:46:28	25.3735	25.1127	25.0131	25.7714	25.5452	25.6860	26.1022	24.9066
3	17:47:26	25.1003	25.0069	25.8113	24.6376	24.8877	24.8897	25.1314	25.4800
x		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.4325	0.1163	0.8179	0.6685	0.4986	0.6380	1.1734	0.4408
%RSD		1.7300	0.4650	3.2717	2.6739	1.9946	2.5520	4.6937	1.7631

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:45:31	24.1548	104.96%	24.7625	24.8427	25.3870	24.5328	23.8624	23.9138
2	17:46:28	26.6577	97.79%	26.2718	23.7563	24.7516	26.7299	26.0164	25.9869
3	17:47:26	24.1875	98.79%	23.9657	26.4010	24.8614	23.7373	25.1213	25.0993
x		25.0000	100.52%	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		1.4357	3.88%	1.1712	1.3293	0.3396	1.5500	1.0821	1.0401
%RSD		5.7429	3.86	4.6850	5.3173	1.3584	6.2001	4.3284	4.1604

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:45:31	24.2578	100.96%	24.9078	25.1626	24.5503	24.5956	24.7397	101.99%
2	17:46:28	25.7196	98.31%	25.5045	25.4053	25.8591	25.8279	25.4598	97.36%
3	17:47:26	25.0226	99.49%	24.5877	24.4321	24.5906	24.5764	24.8006	98.83%
x		25.0000	99.58%	25.0000	25.0000	25.0000	25.0000	25.0000	99.40%
σ		0.7312	1.33%	0.4653	0.5065	0.7443	0.7171	0.3993	2.37%
%RSD		2.9246	1.34	1.8612	2.0261	2.9770	2.8683	1.5973	2.38

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:45:31	24.6947	24.6654	24.2935	24.7838	24.5602	99.88%	24.8859	24.7283
2	17:46:28	25.7708	25.7065	25.9778	25.8266	25.9716	98.86%	25.5217	25.6655
3	17:47:26	24.5345	24.6281	24.7287	24.3896	24.4683	101.15%	24.5924	24.6062
x		25.0000	25.0000	25.0000	25.0000	25.0000	99.96%	25.0000	25.0000
σ		0.6723	0.6121	0.8744	0.7425	0.8427	1.15%	0.4750	0.5796
%RSD		2.6893	2.4486	3.4974	2.9702	3.3707	1.15	1.9000	2.3183

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	17:45:31	24.7979	24.7674	24.8062
2	17:46:28	25.7643	25.6097	25.6238
3	17:47:26	24.4378	24.6228	24.5700
x		25.0000	25.0000	25.0000
σ		0.6860	0.5330	0.5530
%RSD		2.7438	2.1319	2.2119

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:44	118.18%	2.6877	103.2105	111.12%	26.3289	10.1146	10.1898	26.0072
2	17:55:42	104.62%	2.6349	104.0292	100.47%	27.0254	10.4580	10.3042	26.6984
3	17:56:39	102.33%	2.5449	100.9529	101.69%	26.0717	10.1799	10.2043	26.2262
x		108.38%	2.6225	102.7308	104.42%	26.4753	10.2508	10.2328	26.3106
σ		8.57%	0.0722	1.5933	5.83%	0.4935	0.1824	0.0623	0.3532
%RSD		7.90	2.7545	1.5509	5.58	1.8638	1.7790	0.6085	1.3425

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:44	25.8494	26.3465	28.7985	25.9659	13.0556	13.0894	25.6115	28.7940
2	17:55:42	26.4476	26.4858	25.3634	26.5318	13.4845	13.1688	25.8709	28.7710
3	17:56:39	25.6952	26.1219	24.5949	25.7795	12.8876	13.1329	26.0540	28.5873
x		25.9974	26.3181	26.2523	26.0924	13.1425	13.1304	25.8455	28.7174
σ		0.3974	0.1836	2.2383	0.3918	0.3078	0.0397	0.2223	0.1133
%RSD		1.5288	0.6975	8.5263	1.5015	2.3420	0.3025	0.8602	0.3944

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:44	28.3981	106.48%	24.8327	26.1886	26.0613	24.5010	25.6423	25.9457
2	17:55:42	28.1670	100.75%	26.0811	25.6589	26.6018	26.0159	25.7750	25.9924
3	17:56:39	27.8428	99.00%	25.9982	24.8248	24.6333	26.4532	25.2448	25.9116
x		28.1360	102.08%	25.6373	25.5574	25.7655	25.6567	25.5540	25.9499
σ		0.2789	3.91%	0.6981	0.6875	1.0170	1.0245	0.2759	0.0406
%RSD		0.9914	3.83	2.7229	2.6902	3.9472	3.9930	1.0797	0.1563

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:44	25.4260	102.82%	13.3646	13.2759	12.8733	12.8161	12.6895	101.85%
2	17:55:42	25.7324	100.56%	13.4490	13.1526	12.5778	12.5283	12.5949	101.18%
3	17:56:39	25.5197	100.86%	13.1286	13.0770	12.5714	12.3770	12.4376	99.20%
x		25.5594	101.41%	13.3140	13.1685	12.6742	12.5738	12.5740	100.74%
σ		0.1570	1.23%	0.1661	0.1004	0.1725	0.2231	0.1273	1.38%
%RSD		0.6143	1.21	1.2474	0.7627	1.3609	1.7739	1.0123	1.37

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:44	24.8414	24.2989	107.8696	105.6092	107.0303	100.92%	26.3032	26.3851
2	17:55:42	24.5683	24.4878	107.2175	105.4562	106.5378	100.95%	26.3672	26.3211
3	17:56:39	24.6159	24.6795	104.9993	103.9301	104.9445	102.33%	25.8421	25.8931
x		24.6752	24.4887	106.6955	104.9985	106.1708	101.40%	26.1708	26.1998
σ		0.1459	0.1903	1.5047	0.9284	1.0903	0.81%	0.2865	0.2675
%RSD		0.5911	0.7771	1.4102	0.8842	1.0269	0.80	1.0947	1.0210

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	17:54:44	23.7488	26.6486	25.1301
2	17:55:42	23.6188	26.7191	25.3092
3	17:56:39	23.4367	26.1846	24.8439
x		23.6014	26.5174	25.0944
σ		0.1568	0.2904	0.2347
%RSD		0.6644	1.0950	0.9352

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:59:12	112.17%	24.8343	25.3994	102.10%	25.0941	25.4007	25.5278	25.5566
2	18:00:09	102.12%	24.6674	24.8992	100.18%	24.6820	24.5686	24.7048	24.7149
3	18:01:06	97.57%	24.1710	24.5218	98.25%	24.0779	24.2660	24.7389	24.5080
x		103.95%	24.5575	24.9402	100.18%	24.6180	24.7451	24.9905	24.9265
σ		7.47%	0.3450	0.4402	1.92%	0.5111	0.5876	0.4656	0.5554
%RSD		7.19	1.4049	1.7651	1.92	2.0761	2.3746	1.8632	2.2281

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:59:12	25.6104	24.9506	24.5602	25.1003	25.2532	24.5949	24.6378	23.6049
2	18:00:09	24.6752	24.5567	22.3862	24.3866	24.4908	24.2326	24.7565	24.3287
3	18:01:06	24.1659	23.5381	24.3372	23.9313	23.8348	23.8396	24.0500	23.5411
x		24.8172	24.3484	23.7612	24.4727	24.5262	24.2224	24.4814	23.8249
σ		0.7326	0.7289	1.1960	0.5892	0.7099	0.3778	0.3783	0.4375
%RSD		2.9520	2.9937	5.0333	2.4078	2.8943	1.5596	1.5453	1.8362

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:59:12	25.0199	102.42%	24.5501	24.3994	25.1266	25.1548	25.4976	26.4497
2	18:00:09	24.7473	98.71%	24.3055	24.4237	23.6789	24.7027	25.1361	25.4298
3	18:01:06	24.8940	96.88%	24.3306	22.5875	26.3525	24.1485	24.6658	25.4580
x		24.8871	99.33%	24.3954	23.8035	25.0527	24.6687	25.0998	25.7792
σ		0.1365	2.82%	0.1346	1.0532	1.3383	0.5040	0.4171	0.5808
%RSD		0.5483	2.84	0.5517	4.4244	5.3420	2.0430	1.6617	2.2532

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:59:12	25.5580	98.32%	25.6919	25.0926	24.9412	25.0571	25.0408	98.22%
2	18:00:09	24.9990	98.91%	24.8378	24.3081	24.3498	24.4800	24.5068	98.65%
3	18:01:06	24.9353	98.19%	24.4281	24.3540	24.1128	23.9042	23.8210	98.91%
x		25.1641	98.47%	24.9859	24.5849	24.4679	24.4804	24.4562	98.60%
σ		0.3426	0.38%	0.6448	0.4402	0.4266	0.5765	0.6115	0.35%
%RSD		1.3615	0.39	2.5806	1.7907	1.7437	2.3548	2.5002	0.35

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:59:12	24.7872	25.1538	25.2641	24.8445	25.2314	96.52%	25.1890	25.0792
2	18:00:09	24.6814	24.3621	23.9267	24.1512	24.4612	99.55%	24.5856	24.5332
3	18:01:06	24.1109	23.8375	24.4926	24.2402	24.2361	98.99%	24.9086	24.8864
x		24.5265	24.4511	24.5611	24.4120	24.6429	98.35%	24.8944	24.8329
σ		0.3638	0.6627	0.6713	0.3772	0.5219	1.61%	0.3020	0.2769
%RSD		1.4831	2.7102	2.7333	1.5452	2.1180	1.64	1.2130	1.1149

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	17:59:12	25.1748	25.3599	25.1784
2	18:00:09	24.4030	24.7084	24.4787
3	18:01:06	24.5642	24.6224	24.5229
x		24.7140	24.8969	24.7267
σ		0.4071	0.4032	0.3919
%RSD		1.6472	1.6196	1.5847

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:04	112.98%	0.0012	-0.0247	104.09%	-0.0280	-0.0031	0.0531	-0.0061
2	18:10:02	103.62%	0.0009	-0.0124	100.79%	-0.0007	0.0236	-0.0411	-0.0038
3	18:10:59	100.18%	0.0011	-0.0113	98.51%	-0.0076	-0.0051	-0.0168	-0.0028
x		105.59%	0.0011	-0.0161	101.13%	-0.0121	0.0051	-0.0016	-0.0042
σ		6.62%	0.0001	0.0075	2.80%	0.0142	0.0161	0.0489	0.0016
%RSD		6.27	13.1582	46.4549	2.77	117.6660	312.6320	2991.2469	38.9149

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:04	-0.0016	0.0014	0.2754	-0.2080	-0.0108	-0.0109	-0.0555	0.0443
2	18:10:02	-0.0043	0.0015	0.9145	-0.2127	-0.0148	-0.0108	-0.0224	0.0617
3	18:10:59	0.0008	0.0059	0.1647	-0.2205	-0.0085	-0.0053	-0.0145	0.0943
x		-0.0017	0.0029	0.4515	-0.2138	-0.0114	-0.0090	-0.0308	0.0668
σ		0.0026	0.0026	0.4047	0.0063	0.0032	0.0032	0.0218	0.0253
%RSD		152.4490	87.7302	89.6427	2.9492	28.1963	35.7637	70.6120	37.9463

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:04	-0.0630	98.47%	0.0002	0.1237	-0.4125	0.1317	0.0834	0.0697
2	18:10:02	0.0121	98.29%	0.0727	0.1245	-0.4457	0.3673	0.1169	0.1093
3	18:10:59	-0.0182	99.20%	0.0131	0.0310	0.1943	0.0316	0.1114	0.1228
x		-0.0230	98.65%	0.0287	0.0930	-0.2213	0.1769	0.1039	0.1006
σ		0.0378	0.48%	0.0387	0.0537	0.3603	0.1723	0.0180	0.0276
%RSD		163.9336	0.49	134.8221	57.7522	162.7900	97.4370	17.3284	27.4237

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:04	0.0745	99.73%	0.0026	0.0016	0.0000	-0.0016	0.0001	97.50%
2	18:10:02	0.1186	98.61%	0.0047	0.0022	0.0000	-0.0016	0.0010	99.22%
3	18:10:59	0.1277	98.75%	0.0006	-0.0005	0.0048	0.0022	0.0031	97.25%
x		0.1069	99.03%	0.0026	0.0011	0.0016	-0.0003	0.0014	97.99%
σ		0.0284	0.61%	0.0021	0.0014	0.0028	0.0022	0.0015	1.07%
%RSD		26.5855	0.61	79.0224	129.3169	173.2051	633.9501	111.6599	1.10

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:04	0.0079	0.0045	0.0038	0.0001	0.0018	95.36%	0.0115	0.0137
2	18:10:02	0.0062	0.0073	0.0071	0.0020	0.0059	98.58%	0.0203	0.0172
3	18:10:59	0.0047	0.0045	-0.0035	-0.0019	-0.0001	98.66%	0.0131	0.0152
x		0.0063	0.0054	0.0025	0.0001	0.0025	97.53%	0.0150	0.0154
σ		0.0016	0.0017	0.0054	0.0020	0.0031	1.88%	0.0047	0.0018
%RSD		25.1956	30.6354	220.0258	2926.7206	121.5551	1.93	31.0967	11.5548

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:09:04	-0.0042	-0.0036	-0.0022
2	18:10:02	-0.0013	-0.0023	-0.0013
3	18:10:59	-0.0008	-0.0004	-0.0013
x		-0.0021	-0.0021	-0.0016
σ		0.0019	0.0016	0.0005
%RSD		89.0070	76.8464	30.6919

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:25	108.77%	-0.0016	-0.0170	103.50%	0.0221	0.0208	-0.0784	0.0023
2	18:14:22	103.10%	0.0003	-0.0190	98.18%	-0.0031	0.0027	-0.0709	-0.0077
3	18:15:19	97.57%	-0.0008	-0.0211	98.67%	0.0127	-0.0079	-0.0945	-0.0027
x		103.15%	-0.0007	-0.0190	100.11%	0.0106	0.0052	-0.0812	-0.0027
σ		5.60%	0.0010	0.0020	2.94%	0.0127	0.0146	0.0121	0.0050
%RSD		5.43	138.2690	10.6435	2.93	120.3966	280.8660	14.8674	185.9449

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:25	0.0011	0.0057	0.2597	-0.2887	-0.0217	-0.0166	-0.0642	-0.0387
2	18:14:22	0.0009	0.0015	0.1301	-0.2102	-0.0145	-0.0144	-0.0356	0.0289
3	18:15:19	-0.0038	0.0016	0.5209	-0.3363	-0.0271	0.0100	-0.0158	0.0465
x		-0.0006	0.0029	0.3036	-0.2784	-0.0211	-0.0070	-0.0385	0.0122
σ		0.0027	0.0024	0.1991	0.0637	0.0063	0.0148	0.0243	0.0450
%RSD		456.5932	81.9462	65.5794	22.8720	29.8772	211.2941	63.1707	367.9390

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:25	-0.0154	100.11%	0.0886	-0.1066	0.0338	0.2993	0.0392	0.0538
2	18:14:22	-0.0177	98.25%	-0.1106	0.0325	0.1147	-0.3768	0.0641	0.0601
3	18:15:19	-0.0020	97.26%	-0.1017	0.3621	0.0760	-0.0412	0.0526	0.0723
x		-0.0117	98.54%	-0.0412	0.0960	0.0749	-0.0396	0.0520	0.0621
σ		0.0085	1.45%	0.1125	0.2407	0.0405	0.3381	0.0125	0.0094
%RSD		72.3708	1.47	273.1419	250.6742	54.0522	854.5364	24.0410	15.1479

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:25	0.0501	98.05%	0.0032	0.0000	0.0000	-0.0016	0.0001	97.85%
2	18:14:22	0.0807	97.10%	0.0027	0.0022	0.0000	-0.0028	0.0031	97.37%
3	18:15:19	0.0548	95.76%	0.0054	0.0006	0.0000	-0.0003	0.0001	97.43%
x		0.0618	96.97%	0.0038	0.0010	0.0000	-0.0016	0.0011	97.55%
σ		0.0165	1.15%	0.0015	0.0011	0.0000	0.0013	0.0017	0.26%
%RSD		26.6148	1.18	38.3710	118.4335	0.0000	79.5880	163.6014	0.27

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:13:25	0.0032	0.0024	-0.0035	-0.0039	0.0027	95.50%	0.0014	0.0086
2	18:14:22	0.0055	0.0055	-0.0071	0.0041	0.0021	97.49%	0.0075	0.0033
3	18:15:19	0.0087	0.0045	0.0037	0.0021	0.0021	97.68%	0.0079	0.0073
x		0.0058	0.0041	-0.0023	0.0008	0.0023	96.89%	0.0056	0.0064
σ		0.0028	0.0016	0.0055	0.0042	0.0004	1.20%	0.0037	0.0028
%RSD		47.8132	37.6920	240.7046	550.7244	16.5332	1.24	65.3750	43.1351

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:13:25	-0.0022	-0.0016	-0.0022
2	18:14:22	-0.0017	0.0003	-0.0002
3	18:15:19	-0.0022	0.0003	-0.0012
x		-0.0020	-0.0003	-0.0012
σ		0.0003	0.0011	0.0010
%RSD		13.4824	337.1908	83.4356

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Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:32	106.69%	0.0202	1.9954	102.97%	0.2275	0.2026	0.0823	0.0467
2	18:18:29	98.75%	0.0122	1.9353	97.32%	0.2247	0.2353	0.0866	0.0424
3	18:19:26	95.02%	0.0236	1.9939	96.29%	0.1716	0.2034	0.1667	0.0509
x		100.15%	0.0187	1.9749	98.86%	0.2079	0.2138	0.1119	0.0467
σ		5.96%	0.0059	0.0343	3.59%	0.0315	0.0186	0.0475	0.0042
%RSD		5.95	31.3199	1.7354	3.64	15.1276	8.7151	42.4776	9.1000

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:32	0.0157	0.1933	0.1938	-0.1086	0.0787	0.0871	0.4113	0.4900
2	18:18:29	0.0256	0.1917	0.5475	-0.0877	0.0498	0.1054	0.4826	0.4907
3	18:19:26	0.0228	0.2080	0.4055	-0.0018	0.0997	0.0769	0.4791	0.4048
x		0.0214	0.1976	0.3822	-0.0661	0.0761	0.0898	0.4577	0.4619
σ		0.0051	0.0090	0.1780	0.0566	0.0251	0.0145	0.0402	0.0494
%RSD		23.7269	4.5403	46.5672	85.6708	32.9306	16.1085	8.7809	10.7019

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:32	0.4533	102.18%	0.4987	0.9184	0.6197	1.0782	0.0582	0.0630
2	18:18:29	0.4862	96.16%	0.5037	0.9312	0.7423	1.0222	0.0750	0.1168
3	18:19:26	0.4390	96.54%	0.2235	0.9287	0.8226	-0.0769	0.0893	0.0746
x		0.4595	98.29%	0.4087	0.9261	0.7282	0.6745	0.0742	0.0848
σ		0.0242	3.37%	0.1603	0.0068	0.1021	0.6514	0.0156	0.0283
%RSD		5.2686	3.43	39.2321	0.7321	14.0272	96.5686	20.9971	33.3424

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:32	0.0649	101.11%	0.0164	0.0094	0.0117	0.0153	0.0223	100.40%
2	18:18:29	0.0777	97.14%	0.0192	0.0187	0.0122	0.0198	0.0262	96.86%
3	18:19:26	0.0909	96.73%	0.0203	0.0202	0.0217	0.0245	0.0149	98.32%
x		0.0778	98.33%	0.0186	0.0161	0.0152	0.0199	0.0211	98.53%
σ		0.0130	2.42%	0.0020	0.0058	0.0056	0.0046	0.0057	1.78%
%RSD		16.6547	2.46	10.7323	36.1210	37.1372	23.1371	27.0988	1.81

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:32	0.0482	0.0556	0.0422	0.0572	0.0517	97.84%	0.0250	0.0260
2	18:18:29	0.0554	0.0503	0.0362	0.0526	0.0539	97.69%	0.0322	0.0303
3	18:19:26	0.0460	0.0466	0.0392	0.0460	0.0527	98.06%	0.0240	0.0285
x		0.0499	0.0508	0.0392	0.0519	0.0527	97.86%	0.0271	0.0283
σ		0.0049	0.0045	0.0030	0.0056	0.0011	0.19%	0.0045	0.0021
%RSD		9.8022	8.9149	7.6449	10.8603	2.0918	0.19	16.5737	7.5969

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:17:32	0.0156	0.0161	0.0181
2	18:18:29	0.0171	0.0141	0.0169
3	18:19:26	0.0146	0.0180	0.0170
x		0.0158	0.0161	0.0173
σ		0.0013	0.0019	0.0007
%RSD		8.1468	12.0290	3.8468

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:56	98.18%	-0.0015	22102.2790	89.21%	-0.0103	0.3619	2.6392	1.3239
2	18:23:53	94.99%	0.0026	21172.0650	92.30%	0.0145	0.2935	2.2194	1.2642
3	18:24:51	90.91%	0.0000	21889.1100	87.26%	0.0360	0.2913	2.2398	1.3777
x		94.69%	0.0004	21721.1510	89.59%	0.0134	0.3156	2.3662	1.3219
σ		3.64%	0.0021	487.3216	2.54%	0.0232	0.0401	0.2367	0.0568
%RSD		3.84	531.4224	2.2435	2.84	173.0090	12.7158	10.0045	4.2985

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:56	0.8370	1.2591	20.8688	2.0329	0.5421	0.4459	1.3048	1.5976
2	18:23:53	0.7827	1.0613	18.4092	1.7444	0.5024	0.4384	1.2528	1.9112
3	18:24:51	0.8336	1.2025	17.7022	1.9651	0.5067	0.4952	1.2114	1.4364
x		0.8178	1.1743	18.9934	1.9141	0.5171	0.4598	1.2563	1.6484
σ		0.0304	0.1019	1.6622	0.1508	0.0218	0.0308	0.0468	0.2414
%RSD		3.7209	8.6771	8.7514	7.8806	4.2139	6.7043	3.7231	14.6446

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:56	1.1712	88.35%	0.0341	1.1447	-0.4174	-0.0753	57.8230	59.0585
2	18:23:53	1.0065	90.82%	0.0927	1.1598	0.1424	0.0456	55.4047	56.7488
3	18:24:51	1.0771	84.47%	0.0254	0.7058	0.0367	-0.2834	58.9689	60.7605
x		1.0849	87.88%	0.0508	1.0035	-0.0794	-0.1043	57.3988	58.8559
σ		0.0827	3.20%	0.0366	0.2579	0.2974	0.1664	1.8196	2.0135
%RSD		7.6188	3.64	72.1726	25.6986	374.3720	159.4571	3.1700	3.4211

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:56	57.6021	82.35%	0.0546	0.0458	0.0395	0.0379	0.0386	84.18%
2	18:23:53	54.8211	85.20%	0.0495	0.0457	0.0487	0.0334	0.0379	88.12%
3	18:24:51	59.6717	81.58%	0.0502	0.0442	0.0530	0.0388	0.0447	86.02%
x		57.3650	83.04%	0.0514	0.0452	0.0471	0.0367	0.0404	86.11%
σ		2.4340	1.91%	0.0028	0.0009	0.0069	0.0029	0.0037	1.97%
%RSD		4.2430	2.30	5.3681	1.9422	14.6712	7.8526	9.1693	2.29

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:56	0.0612	0.0465	0.1176	0.1450	0.1329	84.23%	0.0890	0.0815
2	18:23:53	0.0444	0.0364	0.0958	0.1201	0.1195	89.16%	0.0660	0.0624
3	18:24:51	0.0402	0.0328	0.1553	0.1529	0.1189	86.64%	0.0686	0.0581
x		0.0486	0.0385	0.1229	0.1393	0.1238	86.68%	0.0745	0.0673
σ		0.0111	0.0071	0.0301	0.0171	0.0080	2.46%	0.0126	0.0125
%RSD		22.8108	18.3851	24.4849	12.2844	6.4353	2.84	16.9121	18.4915

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:22:56	0.1796	0.1941	0.1908
2	18:23:53	0.1449	0.1644	0.1576
3	18:24:51	0.1549	0.1670	0.1607
x		0.1598	0.1752	0.1697
σ		0.0179	0.0164	0.0183
%RSD		11.1723	9.3809	10.7950

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:27:58	96.10%	0.0194	22924.2270	91.42%	59.8036	57.6241	59.1730	58.8114
2	18:28:56	90.33%	0.0086	22085.0270	89.34%	57.5688	55.8291	58.9242	58.4975
3	18:29:53	80.69%	0.0163	22652.0860	82.59%	58.7273	56.6812	59.2453	59.7541
x		89.04%	0.0148	22553.7800	87.78%	58.6999	56.7115	59.1142	59.0210
σ		7.78%	0.0056	428.1497	4.62%	1.1177	0.8979	0.1684	0.6540
%RSD		8.74	37.6072	1.8983	5.26	1.9041	1.5832	0.2849	1.1080

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:27:58	59.2773	58.0504	78.5114	58.2256	55.8667	55.4990	29.2353	26.9591
2	18:28:56	56.0935	54.3100	67.8070	54.9715	52.3127	52.8940	27.1096	26.5411
3	18:29:53	57.5501	55.1787	69.7483	55.4071	53.4997	53.4567	28.6229	27.0233
x		57.6403	55.8464	72.0222	56.2014	53.8930	53.9499	28.3226	26.8411
σ		1.5938	1.9575	5.7030	1.7665	1.8093	1.3707	1.0942	0.2618
%RSD		2.7651	3.5052	7.9184	3.1432	3.3572	2.5407	3.8634	0.9754

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:27:58	28.2509	87.23%	29.5122	29.2596	29.7371	28.2492	59.0200	60.2330
2	18:28:56	26.6832	89.21%	27.5175	27.5469	27.1503	26.2126	57.3671	58.7272
3	18:29:53	27.8798	82.97%	29.1010	25.6511	28.4220	29.1808	58.4282	60.2660
x		27.6046	86.47%	28.7103	27.4859	28.4365	27.8809	58.2718	59.7420
σ		0.8193	3.18%	1.0532	1.8050	1.2935	1.5180	0.8375	0.8791
%RSD		2.9679	3.68	3.6684	6.5671	4.5487	5.4446	1.4372	1.4714

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:27:58	60.1506	83.53%	11.3975	11.2717	28.5161	28.5340	28.3271	84.42%
2	18:28:56	57.2169	85.96%	10.7960	10.7056	26.9683	26.6558	26.9402	86.37%
3	18:29:53	58.9175	80.87%	10.9924	11.0438	27.9724	27.6928	27.5156	84.01%
x		58.7617	83.45%	11.0620	11.0070	27.8189	27.6275	27.5943	84.94%
σ		1.4730	2.54%	0.3067	0.2848	0.7852	0.9408	0.6968	1.26%
%RSD		2.5068	3.05	2.7727	2.5876	2.8226	3.4053	2.5253	1.49

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:27:58	0.0510	0.0509	0.0673	0.0978	0.1054	85.35%	0.0708	0.0755
2	18:28:56	0.0497	0.0485	0.1257	0.1042	0.0914	88.18%	0.0643	0.0658
3	18:29:53	0.0511	0.0394	0.0837	0.1162	0.0935	86.37%	0.0734	0.0687
x		0.0506	0.0463	0.0923	0.1061	0.0967	86.64%	0.0695	0.0700
σ		0.0008	0.0061	0.0301	0.0093	0.0075	1.43%	0.0047	0.0050
%RSD		1.4936	13.1954	32.6710	8.7910	7.7760	1.65	6.7485	7.1379

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:27:58	0.1630	0.1832	0.1690
2	18:28:56	0.1251	0.1604	0.1460
3	18:29:53	0.1548	0.1564	0.1581
x		0.1476	0.1667	0.1577
σ		0.0199	0.0144	0.0115
%RSD		13.4882	8.6638	7.3181

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:42	101.55%	20.4587	20.5065	96.52%	20.8173	20.7292	21.1991	21.3093
2	18:45:39	99.70%	19.7894	20.0388	101.98%	18.9958	19.1407	19.6062	19.4894
3	18:46:36	96.23%	19.5023	21.0123	98.60%	19.3661	19.9727	20.4924	20.0013
x		99.16%	19.9168	20.5192	99.03%	19.7264	19.9475	20.4326	20.2666
σ		2.70%	0.4908	0.4869	2.76%	0.9627	0.7945	0.7981	0.9385
%RSD		2.72	2.4641	2.3728	2.78	4.8803	3.9832	3.9061	4.6308

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:42	20.9710	20.9691	20.9990	20.5413	20.7160	20.3563	20.6424	19.1357
2	18:45:39	19.4920	19.0217	18.7228	19.2670	19.2688	19.0357	19.4160	17.9835
3	18:46:36	19.8833	19.6491	20.0384	19.6904	19.7137	19.8405	19.5021	20.2531
x		20.1155	19.8800	19.9201	19.8329	19.8995	19.7441	19.8535	19.1241
σ		0.7663	0.9940	1.1427	0.6490	0.7413	0.6655	0.6846	1.1349
%RSD		3.8096	4.9999	5.7365	3.2725	3.7251	3.3709	3.4480	5.9342

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:42	20.7754	97.76%	20.5127	20.2672	20.2654	20.9015	21.1736	21.3149
2	18:45:39	19.0122	101.55%	19.3499	18.2201	19.3046	19.6003	20.2618	20.4064
3	18:46:36	19.3035	99.25%	19.3275	21.6826	18.7963	20.0809	20.7944	21.2782
x		19.6970	99.52%	19.7300	20.0566	19.4554	20.1942	20.7433	20.9999
σ		0.9452	1.91%	0.6779	1.7408	0.7461	0.6579	0.4580	0.5142
%RSD		4.7987	1.92	3.4359	8.6796	3.8348	3.2580	2.2082	2.4488

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:42	21.1390	96.26%	20.6585	20.4459	20.6419	20.6627	20.5461	96.66%
2	18:45:39	20.2123	99.59%	19.7108	19.4169	19.7510	19.3654	19.1970	100.48%
3	18:46:36	20.7464	98.31%	20.1890	20.0749	20.3060	20.0744	20.0518	97.47%
x		20.6992	98.05%	20.1861	19.9792	20.2330	20.0342	19.9316	98.20%
σ		0.4652	1.68%	0.4739	0.5211	0.4499	0.6496	0.6825	2.02%
%RSD		2.2473	1.71	2.3475	2.6083	2.2235	3.2423	3.4243	2.05

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:42	20.4873	20.4946	21.0131	20.6368	20.4238	95.26%	21.0614	21.0131
2	18:45:39	19.0558	18.9593	19.6607	19.2209	19.3197	99.91%	20.2401	20.1927
3	18:46:36	19.7690	19.8142	20.1769	20.1123	20.1038	98.40%	20.9814	20.8853
x		19.7707	19.7560	20.2835	19.9900	19.9491	97.86%	20.7610	20.6971
σ		0.7157	0.7693	0.6825	0.7158	0.5681	2.37%	0.4528	0.4414
%RSD		3.6202	3.8942	3.3647	3.5809	2.8475	2.42	2.1812	2.1329

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:44:42	20.4446	20.5324	20.4368
2	18:45:39	19.3411	19.5755	19.4709
3	18:46:36	20.2979	20.4412	20.2650
x		20.0279	20.1830	20.0576
σ		0.5992	0.5281	0.5153
%RSD		2.9920	2.6166	2.5691

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:53:46	114.20%	0.0006	0.6169	107.98%	0.0563	0.1027	-0.1050	-0.0025
2	18:54:43	105.50%	0.0027	0.5809	104.59%	0.0660	0.1494	-0.0943	-0.0015
3	18:55:41	97.07%	0.0025	0.5542	99.71%	0.0348	0.1103	-0.0523	0.0035
x		105.59%	0.0019	0.5840	104.10%	0.0523	0.1208	-0.0839	-0.0002
σ		8.56%	0.0012	0.0315	4.16%	0.0160	0.0251	0.0279	0.0032
%RSD		8.11	60.2534	5.3866	3.99	30.4913	20.7513	33.2567	2059.8045

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:53:46	0.0013	0.0013	0.7902	0.2156	0.0238	-0.0097	-0.0523	0.0561
2	18:54:43	0.0002	0.0035	0.5316	0.1033	-0.0059	-0.0147	-0.0482	0.1244
3	18:55:41	-0.0010	0.0015	0.4474	0.0551	0.0032	-0.0201	-0.0197	-0.0215
x		0.0002	0.0021	0.5897	0.1247	0.0070	-0.0148	-0.0400	0.0530
σ		0.0012	0.0012	0.1786	0.0824	0.0152	0.0052	0.0177	0.0730
%RSD		780.6578	59.3220	30.2908	66.0787	216.6671	34.9553	44.3132	137.6878

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:53:46	-0.0347	102.16%	0.1158	0.1611	-0.0729	0.5588	0.1427	0.1692
2	18:54:43	-0.0337	99.88%	0.0648	0.1210	-0.3558	0.2986	0.1530	0.1574
3	18:55:41	-0.0105	98.56%	-0.0961	-0.0603	-0.0970	-0.3410	0.1180	0.1160
x		-0.0263	100.20%	0.0282	0.0739	-0.1753	0.1721	0.1379	0.1475
σ		0.0137	1.82%	0.1106	0.1180	0.1569	0.4630	0.0180	0.0279
%RSD		52.1510	1.82	392.2223	159.5897	89.5021	269.0211	13.0470	18.9135

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:53:46	0.1426	100.59%	0.0005	0.0021	0.0048	0.0009	0.0020	98.12%
2	18:54:43	0.1473	99.70%	0.0052	0.0016	0.0096	0.0009	0.0020	98.09%
3	18:55:41	0.1018	97.35%	0.0032	0.0028	0.0024	-0.0003	0.0001	97.08%
x		0.1306	99.21%	0.0030	0.0022	0.0056	0.0005	0.0014	97.76%
σ		0.0251	1.68%	0.0024	0.0006	0.0036	0.0007	0.0011	0.59%
%RSD		19.1895	1.69	78.7635	26.8318	65.1348	145.0654	82.2807	0.61

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:53:46	0.0086	0.0065	-0.0035	0.0022	0.0021	94.10%	0.0202	0.0214
2	18:54:43	0.0031	0.0054	0.0001	0.0101	0.0008	96.40%	0.0159	0.0198
3	18:55:41	0.0071	0.0055	0.0038	0.0062	0.0027	96.46%	0.0186	0.0192
x		0.0063	0.0058	0.0001	0.0062	0.0019	95.65%	0.0182	0.0201
σ		0.0028	0.0006	0.0036	0.0040	0.0010	1.35%	0.0022	0.0011
%RSD		45.0622	9.9858	2523.5361	64.8380	51.1718	1.41	11.9161	5.5770

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:53:46	-0.0021	-0.0029	-0.0010
2	18:54:43	0.0008	-0.0030	0.0004
3	18:55:41	-0.0007	-0.0023	-0.0000
x		-0.0007	-0.0027	-0.0002
σ		0.0015	0.0004	0.0007
%RSD		222.4522	13.7264	325.4926

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:48	120.45%	0.0338	245.1714	112.61%	0.6045	1.1848	1.3383	20.2443
2	19:00:45	108.05%	0.0258	235.2962	108.01%	0.5304	1.1749	1.4402	20.2080
3	19:01:42	99.88%	0.0301	239.2591	100.00%	0.6538	1.1858	1.2653	20.2400
x		109.46%	0.0299	239.9089	106.88%	0.5962	1.1818	1.3479	20.2308
σ		10.36%	0.0040	4.9696	6.38%	0.0621	0.0060	0.0878	0.0198
%RSD		9.46	13.3058	2.0715	5.97	10.4153	0.5096	6.5148	0.0981

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:48	0.1729	1.1054	2.1453	1.2829	0.4689	0.3975	1.9786	3.3052
2	19:00:45	0.1762	1.1526	2.0750	1.2066	0.4059	0.3373	2.0902	2.8401
3	19:01:42	0.1793	1.1110	2.5526	1.0231	0.4213	0.3012	2.1136	2.8958
x		0.1762	1.1230	2.2576	1.1709	0.4320	0.3453	2.0608	3.0137
σ		0.0032	0.0258	0.2578	0.1335	0.0328	0.0487	0.0721	0.2539
%RSD		1.8274	2.2974	11.4201	11.4035	7.6005	14.0951	3.5008	8.4264

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:48	2.9454	103.13%	0.3757	0.0714	-0.2036	0.7219	0.0388	0.0424
2	19:00:45	2.9539	97.09%	0.3528	0.1738	-0.3728	0.8791	0.0622	0.0878
3	19:01:42	2.7261	97.51%	0.0586	0.2665	0.1321	-0.0056	0.0607	0.0854
x		2.8751	99.24%	0.2623	0.1706	-0.1481	0.5318	0.0539	0.0719
σ		0.1292	3.37%	0.1768	0.0976	0.2570	0.4720	0.0131	0.0255
%RSD		4.4921	3.40	67.4035	57.2090	173.4989	88.7596	24.2380	35.5389

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:48	0.0456	98.15%	0.0016	0.0000	0.0073	0.0084	0.0011	97.29%
2	19:00:45	0.0590	97.89%	0.0016	0.0017	0.0123	0.0099	0.0072	95.41%
3	19:01:42	0.0593	97.28%	0.0043	-0.0010	0.0000	0.0098	0.0081	96.57%
x		0.0546	97.77%	0.0025	0.0002	0.0065	0.0093	0.0055	96.42%
σ		0.0078	0.45%	0.0015	0.0014	0.0062	0.0008	0.0038	0.95%
%RSD		14.2764	0.46	61.1314	574.9798	94.7649	8.6312	70.2833	0.98

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:48	0.0071	0.0126	26.7046	26.4098	26.3604	94.29%	0.0248	0.0411
2	19:00:45	0.0097	0.0087	26.1975	26.2603	26.3972	96.11%	0.0260	0.0212
3	19:01:42	0.0103	0.0106	25.7986	25.4214	25.8782	97.51%	0.0179	0.0134
x		0.0090	0.0107	26.2336	26.0305	26.2119	95.97%	0.0229	0.0252
σ		0.0017	0.0020	0.4541	0.5328	0.2897	1.61%	0.0044	0.0143
%RSD		18.6590	18.4341	1.7309	2.0467	1.1050	1.68	19.1428	56.6414

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	18:59:48	0.1296	0.1450	0.1340
2	19:00:45	0.1215	0.1595	0.1399
3	19:01:42	0.1421	0.1262	0.1374
x		0.1310	0.1436	0.1371
σ		0.0104	0.0167	0.0030
%RSD		7.9132	11.6362	2.1555

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:04:30	105.84%	0.0368	244.5773	104.91%	0.5804	1.1476	1.2861	20.7259
2	19:05:28	92.23%	0.0272	252.7818	95.74%	0.5192	1.1457	1.4262	20.2873
3	19:06:25	88.86%	0.0268	255.9003	94.88%	0.6046	1.1839	1.3697	20.6859
x		95.65%	0.0302	251.0865	98.51%	0.5681	1.1591	1.3606	20.5664
σ		8.99%	0.0057	5.8488	5.56%	0.0440	0.0215	0.0705	0.2425
%RSD		9.40	18.7754	2.3294	5.65	7.7467	1.8549	5.1787	1.1791

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:04:30	0.1868	1.1209	3.6668	1.2413	0.3907	0.3508	2.1067	3.0533
2	19:05:28	0.1722	1.1013	1.9968	1.1715	0.3993	0.3962	2.0343	3.1896
3	19:06:25	0.1717	1.1144	2.3516	1.1435	0.4291	0.3651	1.9663	2.8507
x		0.1769	1.1122	2.6718	1.1854	0.4064	0.3707	2.0358	3.0312
σ		0.0085	0.0100	0.8798	0.0504	0.0202	0.0232	0.0702	0.1706
%RSD		4.8298	0.8994	32.9306	4.2514	4.9652	6.2603	3.4503	5.6266

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:04:30	2.8184	98.29%	0.2649	0.2182	-0.2598	0.3339	0.0293	0.0123
2	19:05:28	2.7243	93.21%	-0.0163	0.2359	0.1360	-0.4823	0.0366	0.0459
3	19:06:25	3.0560	91.61%	0.2821	0.1915	0.1381	0.6310	0.0314	0.0674
x		2.8663	94.37%	0.1769	0.2152	0.0048	0.1608	0.0324	0.0419
σ		0.1710	3.49%	0.1675	0.0223	0.2291	0.5765	0.0038	0.0278
%RSD		5.9647	3.69	94.7085	10.3653	4792.8719	358.3867	11.5705	66.3111

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:04:30	0.0263	96.60%	0.0017	0.0028	0.0025	0.0048	0.0103	95.76%
2	19:05:28	0.0428	91.58%	0.0052	0.0002	0.0102	0.0064	0.0086	92.67%
3	19:06:25	0.0272	90.87%	0.0018	-0.0015	0.0102	0.0182	0.0075	93.30%
x		0.0321	93.02%	0.0029	0.0005	0.0076	0.0098	0.0088	93.91%
σ		0.0093	3.12%	0.0020	0.0022	0.0045	0.0073	0.0014	1.63%
%RSD		28.8195	3.36	68.5559	433.0194	58.7140	74.7689	15.9547	1.74

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:04:30	0.0089	0.0035	26.6855	26.3104	26.4973	93.82%	0.0048	0.0134
2	19:05:28	0.0166	0.0186	26.8707	26.7817	26.8281	94.34%	0.0099	0.0118
3	19:06:25	0.0074	0.0079	26.5933	26.1969	26.5054	95.14%	0.0111	0.0107
x		0.0110	0.0100	26.7165	26.4297	26.6102	94.43%	0.0086	0.0120
σ		0.0049	0.0077	0.1413	0.3101	0.1887	0.67%	0.0033	0.0014
%RSD		44.8992	77.3691	0.5288	1.1734	0.7091	0.71	38.8184	11.4673

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:04:30	0.1344	0.1711	0.1473
2	19:05:28	0.1259	0.1503	0.1452
3	19:06:25	0.1559	0.1335	0.1490
x		0.1387	0.1516	0.1472
σ		0.0155	0.0188	0.0019
%RSD		11.1462	12.4114	1.2688

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:14	105.13%	0.0077	50.1141	100.30%	0.1369	0.2774	0.3636	4.1398
2	19:10:11	98.23%	0.0077	48.5834	99.54%	0.1339	0.2155	0.2727	4.0463
3	19:11:09	93.88%	0.0054	48.2540	97.07%	0.1389	0.2377	0.3117	4.1081
x		99.08%	0.0069	48.9838	98.97%	0.1366	0.2435	0.3160	4.0980
σ		5.67%	0.0013	0.9926	1.69%	0.0025	0.0314	0.0456	0.0475
%RSD		5.72	18.8547	2.0264	1.71	1.8390	12.8808	14.4278	1.1601

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:14	0.0284	0.2045	0.6141	0.1584	0.0879	0.0854	0.7326	1.0446
2	19:10:11	0.0326	0.2063	1.0553	0.1914	0.0928	0.0501	0.8649	1.1697
3	19:11:09	0.0393	0.2438	0.0633	0.1646	0.0895	0.0750	0.8818	1.1205
x		0.0334	0.2182	0.5775	0.1714	0.0901	0.0701	0.8264	1.1116
σ		0.0055	0.0222	0.4970	0.0175	0.0025	0.0182	0.0817	0.0630
%RSD		16.5659	10.1806	86.0492	10.2206	2.7780	25.8812	9.8904	5.6670

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:14	1.0890	96.47%	0.1980	-0.0124	-0.1166	0.6436	0.0101	0.0067
2	19:10:11	0.9843	99.10%	-0.0837	0.0313	-0.0721	-0.3703	0.0323	0.0177
3	19:11:09	0.9769	96.25%	0.0325	-0.0122	-0.2586	0.0605	0.0224	0.0294
x		1.0167	97.27%	0.0489	0.0022	-0.1491	0.1113	0.0216	0.0179
σ		0.0627	1.58%	0.1415	0.0251	0.0974	0.5089	0.0111	0.0113
%RSD		6.1686	1.63	289.2081	1127.9428	65.2918	457.2362	51.6344	63.3553

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:14	0.0178	96.66%	0.0027	-0.0016	0.0024	0.0034	0.0001	97.49%
2	19:10:11	0.0153	98.22%	0.0000	-0.0011	0.0048	-0.0016	0.0020	98.66%
3	19:11:09	0.0264	96.63%	0.0011	0.0017	0.0024	-0.0004	-0.0019	98.95%
x		0.0198	97.17%	0.0013	-0.0003	0.0032	0.0005	0.0000	98.37%
σ		0.0058	0.91%	0.0014	0.0017	0.0014	0.0026	0.0020	0.77%
%RSD		29.5232	0.94	105.2891	536.6059	42.7517	528.8677	4319.3545	0.79

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:14	0.0032	0.0055	5.1690	5.3380	5.2135	96.15%	0.0022	-0.0007
2	19:10:11	0.0070	0.0014	5.1867	5.1668	5.1912	99.88%	-0.0003	-0.0009
3	19:11:09	0.0054	0.0034	5.1730	4.9855	5.0569	100.10%	-0.0021	-0.0005
x		0.0052	0.0034	5.1762	5.1634	5.1539	98.71%	-0.0000	-0.0007
σ		0.0019	0.0021	0.0093	0.1763	0.0847	2.22%	0.0022	0.0002
%RSD		37.0135	60.3480	0.1797	3.4143	1.6432	2.25	5238.0974	24.6556

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:09:14	0.0256	0.0305	0.0284
2	19:10:11	0.0273	0.0337	0.0298
3	19:11:09	0.0234	0.0291	0.0287
x		0.0254	0.0311	0.0290
σ		0.0020	0.0024	0.0007
%RSD		7.7745	7.5640	2.5826

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:04	112.33%	22.1558	268.7066	109.00%	21.4200	21.6999	21.9702	41.5567
2	19:15:01	106.22%	20.7448	261.7030	105.48%	20.6354	20.9940	21.9016	41.1985
3	19:15:59	96.67%	20.8255	261.8726	101.36%	21.3356	21.5039	21.1218	40.4666
x		105.07%	21.2420	264.0941	105.28%	21.1303	21.3993	21.6645	41.0739
σ		7.89%	0.7924	3.9954	3.83%	0.4307	0.3644	0.4713	0.5556
%RSD		7.51	3.7302	1.5129	3.63	2.0384	1.7029	2.1754	1.3527

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:04	21.3144	22.1725	24.0060	22.4053	21.9089	21.7671	23.1177	23.8322
2	19:15:01	20.8507	21.6840	22.9287	22.6341	21.4643	20.9839	22.8700	22.9431
3	19:15:59	20.2752	21.1929	20.9605	21.8177	21.1368	21.0727	22.4394	23.9867
x		20.8134	21.6831	22.6317	22.2857	21.5033	21.2746	22.8090	23.5873
σ		0.5206	0.4898	1.5443	0.4211	0.3875	0.4289	0.3432	0.5632
%RSD		2.5013	2.2589	6.8237	1.8896	1.8022	2.0158	1.5048	2.3878

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:04	23.0504	101.31%	21.3579	22.0912	22.9828	22.1649	21.1213	20.9407
2	19:15:01	23.3166	97.04%	22.2044	19.2094	22.9982	22.0473	21.6634	21.6143
3	19:15:59	22.8809	98.07%	21.1747	20.9429	20.9392	21.2533	20.9902	21.5916
x		23.0827	98.81%	21.5790	20.7478	22.3067	21.8218	21.2583	21.3822
σ		0.2196	2.23%	0.5493	1.4508	1.1844	0.4959	0.3569	0.3825
%RSD		0.9515	2.26	2.5455	6.9925	5.3094	2.2724	1.6789	1.7891

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:04	20.9743	98.25%	9.9763	10.0556	21.0636	21.7137	21.4617	97.89%
2	19:15:01	21.4006	96.45%	9.7882	9.8080	20.6454	21.9372	20.9879	97.90%
3	19:15:59	21.1841	97.79%	9.7551	9.6049	20.2103	21.0614	20.7328	99.18%
x		21.1864	97.50%	9.8399	9.8229	20.6398	21.5708	21.0608	98.32%
σ		0.2132	0.94%	0.1193	0.2257	0.4267	0.4551	0.3699	0.74%
%RSD		1.0061	0.96	1.2127	2.2976	2.0673	2.1096	1.7563	0.76

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:04	21.0299	20.8309	47.2993	47.0948	47.1121	95.55%	21.3679	21.2527
2	19:15:01	20.5421	20.5876	46.4827	45.5635	46.3620	97.02%	21.1878	21.2639
3	19:15:59	20.4413	20.1881	45.6174	45.2633	45.3479	99.29%	21.1580	20.8042
x		20.6711	20.5355	46.4665	45.9739	46.2740	97.29%	21.2379	21.1069
σ		0.3148	0.3245	0.8411	0.9823	0.8854	1.88%	0.1136	0.2623
%RSD		1.5227	1.5803	1.8101	2.1366	1.9133	1.93	0.5348	1.2426

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:14:04	20.9295	21.0857	21.0028
2	19:15:01	20.7137	21.0391	20.7679
3	19:15:59	20.5153	20.5440	20.4462
x		20.7195	20.8896	20.7390
σ		0.2071	0.3002	0.2795
%RSD		0.9998	1.4372	1.3475

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:28	119.43%	19.2300	249.6942	109.72%	19.3466	20.3405	21.1384	38.6288
2	19:20:26	102.63%	19.1652	253.0078	104.53%	18.8928	19.4607	19.7855	37.4943
3	19:21:23	98.44%	18.9475	249.1430	102.49%	18.9603	19.7305	20.4125	38.0656
x		106.83%	19.1143	250.6150	105.58%	19.0666	19.8439	20.4455	38.0629
σ		11.11%	0.1480	2.0905	3.73%	0.2448	0.4508	0.6771	0.5673
%RSD		10.40	0.7742	0.8342	3.53	1.2842	2.2715	3.3116	1.4903

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:28	19.6207	20.3154	19.2552	20.2104	19.8226	19.5218	20.8181	21.5263
2	19:20:26	19.0112	19.7608	22.2419	19.6083	19.1474	19.3373	21.3345	20.9822
3	19:21:23	18.9930	19.9751	18.8128	20.0649	19.7000	19.3259	21.2118	21.3403
x		19.2083	20.0171	20.1033	19.9612	19.5567	19.3950	21.1215	21.2829
σ		0.3573	0.2797	1.8653	0.3141	0.3597	0.1099	0.2698	0.2765
%RSD		1.8599	1.3971	9.2784	1.5738	1.8392	0.5668	1.2774	1.2992

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:28	22.2770	102.87%	19.5837	20.4804	19.5745	19.4370	19.0948	19.5475
2	19:20:26	21.4605	98.67%	19.3966	19.2160	18.8786	19.9914	19.1910	18.8523
3	19:21:23	21.5035	96.89%	19.6621	20.9773	19.8969	20.6627	19.2305	19.5726
x		21.7470	99.48%	19.5475	20.2246	19.4500	20.0304	19.1721	19.3241
σ		0.4595	3.07%	0.1364	0.9081	0.5205	0.6138	0.0698	0.4088
%RSD		2.1129	3.08	0.6977	4.4901	2.6759	3.0644	0.3639	2.1155

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:28	18.8804	100.57%	19.6088	19.4459	19.0360	19.1646	19.2136	99.85%
2	19:20:26	18.7350	99.24%	19.0169	18.9739	18.4346	18.7843	19.0429	98.80%
3	19:21:23	19.2379	97.44%	19.2000	19.2695	18.9314	18.7216	18.8959	99.15%
x		18.9511	99.08%	19.2753	19.2298	18.8006	18.8902	19.0508	99.27%
σ		0.2588	1.57%	0.3030	0.2385	0.3213	0.2397	0.1590	0.53%
%RSD		1.3656	1.59	1.5720	1.2402	1.7090	1.2690	0.8345	0.54

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:19:28	18.1882	18.3486	44.2875	43.8900	43.9283	97.11%	20.0580	19.8580
2	19:20:26	18.0894	18.2103	43.3644	43.3720	43.1189	99.46%	19.4419	19.4532
3	19:21:23	18.1628	18.0700	43.8054	43.2907	43.4391	101.28%	19.5683	19.4144
x		18.1468	18.2097	43.8191	43.5176	43.4954	99.28%	19.6894	19.5752
σ		0.0513	0.1393	0.4617	0.3251	0.4076	2.09%	0.3254	0.2457
%RSD		0.2826	0.7649	1.0537	0.7471	0.9372	2.11	1.6527	1.2551

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:19:28	19.2198	19.3239	19.2068
2	19:20:26	18.6858	19.1672	18.9171
3	19:21:23	18.8673	18.7595	18.8983
x		18.9243	19.0835	19.0074
σ		0.2715	0.2913	0.1730
%RSD		1.4348	1.5266	0.9100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:59	114.86%	26.4603	27.3350	104.28%	26.4538	26.5195	26.5867	26.5825
2	19:25:56	107.03%	24.0403	25.9305	98.38%	25.3005	25.5916	25.5899	26.0268
3	19:26:54	97.65%	24.8990	25.6702	94.98%	25.4790	25.3181	26.3325	25.9200
x		106.51%	25.1332	26.3119	99.21%	25.7444	25.8097	26.1697	26.1764
σ		8.62%	1.2269	0.8956	4.71%	0.6208	0.6297	0.5180	0.3557
%RSD		8.09	4.8815	3.4037	4.75	2.4112	2.4397	1.9793	1.3588

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:59	26.9737	27.3344	25.9501	26.4936	26.4103	26.2326	25.4907	24.9979
2	19:25:56	25.7146	25.2851	24.7503	25.5911	25.9973	25.1530	25.5503	24.9143
3	19:26:54	25.6562	25.2018	23.3719	25.0609	25.3713	25.2987	25.1551	23.9516
x		26.1148	25.9405	24.6908	25.7152	25.9263	25.5614	25.3987	24.6213
σ		0.7444	1.2080	1.2901	0.7244	0.5231	0.5858	0.2131	0.5815
%RSD		2.8504	4.6566	5.2252	2.8169	2.0178	2.2919	0.8389	2.3616

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:59	26.0127	101.81%	26.1632	26.9471	25.7818	26.9046	26.0708	26.2173
2	19:25:56	25.4003	98.93%	24.9155	25.3210	25.1267	25.5457	25.5257	25.7622
3	19:26:54	25.2397	97.13%	25.5286	25.4688	24.8794	26.0765	26.0889	26.7190
x		25.5509	99.29%	25.5358	25.9123	25.2626	26.1756	25.8951	26.2329
σ		0.4079	2.36%	0.6239	0.8992	0.4663	0.6848	0.3201	0.4786
%RSD		1.5964	2.38	2.4432	3.4702	1.8458	2.6163	1.2361	1.8244

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:59	25.4811	99.99%	26.4884	26.0659	25.5503	25.6110	25.9555	98.03%
2	19:25:56	25.5655	98.43%	25.5308	25.4268	25.2366	25.4540	25.1794	97.68%
3	19:26:54	25.9921	95.60%	26.0947	25.9779	25.4712	25.6312	25.2984	95.92%
x		25.6795	98.01%	26.0380	25.8235	25.4194	25.5654	25.4777	97.21%
σ		0.2739	2.22%	0.4813	0.3464	0.1632	0.0970	0.4180	1.13%
%RSD		1.0666	2.27	1.8486	1.3414	0.6419	0.3793	1.6406	1.17

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:59	25.4344	25.4303	26.3008	25.4777	25.6790	94.34%	25.9805	25.9212
2	19:25:56	25.0067	25.1972	25.3384	25.1270	25.3375	97.56%	25.3401	25.3501
3	19:26:54	25.7927	25.6050	25.6752	26.1038	25.6822	96.97%	25.6491	25.7813
x		25.4113	25.4108	25.7715	25.5695	25.5663	96.29%	25.6566	25.6842
σ		0.3936	0.2046	0.4884	0.4948	0.1981	1.71%	0.3203	0.2977
%RSD		1.5487	0.8051	1.8950	1.9352	0.7750	1.78	1.2483	1.1591

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:24:59	25.9924	25.8008	25.7881
2	19:25:56	25.2578	25.2203	25.2489
3	19:26:54	25.6237	25.7023	25.5897
x		25.6247	25.5745	25.5422
σ		0.3673	0.3107	0.2727
%RSD		1.4334	1.2147	1.0678

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:34:02	123.88%	-0.0012	-0.0146	113.03%	0.0308	0.0584	-0.1014	-0.0024
2	19:35:00	106.78%	0.0026	0.0082	103.13%	0.0402	0.0270	-0.0850	-0.0030
3	19:35:58	96.61%	0.0065	0.0007	101.18%	-0.0043	0.0211	-0.0022	-0.0017
x		109.09%	0.0026	-0.0019	105.78%	0.0222	0.0355	-0.0629	-0.0024
σ		13.78%	0.0039	0.0116	6.35%	0.0234	0.0201	0.0532	0.0006
%RSD		12.63	146.9859	611.7722	6.01	105.3266	56.4689	84.5892	27.1349

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:34:02	-0.0037	0.0068	0.8300	-0.1522	-0.0119	-0.0142	-0.0013	0.1194
2	19:35:00	-0.0048	0.0035	1.0069	-0.2309	-0.0188	-0.0096	-0.0179	0.1203
3	19:35:58	0.0012	0.0058	-0.1349	-0.2200	-0.0222	-0.0109	-0.0393	0.0111
x		-0.0024	0.0054	0.5673	-0.2010	-0.0176	-0.0116	-0.0195	0.0836
σ		0.0032	0.0017	0.6146	0.0427	0.0052	0.0024	0.0191	0.0628
%RSD		131.7530	32.2097	108.3305	21.2216	29.7102	20.3648	97.4998	75.0872

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:34:02	0.0378	111.60%	0.1588	0.0169	-0.1956	0.5956	0.0629	0.1009
2	19:35:00	0.0084	102.69%	0.1479	0.0264	-0.1355	0.5557	0.0977	0.0920
3	19:35:58	0.0002	99.21%	-0.1637	0.0305	0.4224	-0.5647	0.0978	0.1099
x		0.0155	104.50%	0.0477	0.0246	0.0304	0.1955	0.0861	0.1009
σ		0.0198	6.39%	0.1831	0.0070	0.3408	0.6587	0.0201	0.0090
%RSD		127.8667	6.11	384.3060	28.2707	1119.9852	336.8917	23.3246	8.8687

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:34:02	0.0673	105.58%	0.0034	0.0008	0.0000	-0.0017	-0.0001	105.15%
2	19:35:00	0.0888	102.01%	0.0051	0.0015	0.0000	0.0020	-0.0010	100.83%
3	19:35:58	0.0810	100.77%	0.0062	-0.0000	0.0000	0.0057	0.0020	99.20%
x		0.0790	102.79%	0.0049	0.0008	0.0000	0.0020	0.0003	101.73%
σ		0.0109	2.50%	0.0014	0.0008	0.0000	0.0037	0.0015	3.08%
%RSD		13.7392	2.43	29.2879	98.6203	0.0000	183.6406	491.3317	3.02

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:34:02	0.0022	0.0050	0.0031	-0.0001	0.0006	98.45%	0.0029	0.0014
2	19:35:00	0.0015	0.0023	0.0034	-0.0020	0.0001	98.85%	0.0091	0.0064
3	19:35:58	0.0062	0.0053	0.0035	-0.0020	0.0038	99.43%	0.0041	0.0047
x		0.0033	0.0042	0.0034	-0.0013	0.0015	98.91%	0.0054	0.0042
σ		0.0025	0.0017	0.0002	0.0011	0.0020	0.50%	0.0033	0.0026
%RSD		76.9113	39.5175	5.6389	79.4531	133.2572	0.50	60.6989	61.5756

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:34:02	-0.0022	0.0016	-0.0013
2	19:35:00	-0.0032	-0.0023	-0.0020
3	19:35:58	0.0011	-0.0017	-0.0007
x		-0.0014	-0.0008	-0.0013
σ		0.0023	0.0021	0.0007
%RSD		158.8233	254.2190	48.9685

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:13	113.72%	0.0194	319.2558	107.65%	1.0910	1.5524	1.5122	20.2107
2	19:40:10	101.89%	0.0168	320.9238	102.49%	0.9870	1.5011	1.6562	19.8337
3	19:41:08	99.14%	0.0147	317.8926	101.76%	0.9511	1.4116	1.5588	19.3386
x		104.92%	0.0170	319.3574	103.96%	1.0097	1.4884	1.5757	19.7943
σ		7.75%	0.0023	1.5182	3.21%	0.0726	0.0712	0.0735	0.4374
%RSD		7.39	13.8248	0.4754	3.09	7.1947	4.7864	4.6638	2.2097

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:13	0.4030	4.0200	4.7410	4.0530	1.0355	1.0834	1.7246	1.7740
2	19:40:10	0.3796	3.8787	5.2404	3.7873	1.0865	0.9869	1.5865	2.1966
3	19:41:08	0.3835	3.9365	5.2281	3.6528	1.0433	1.0046	1.4459	1.7040
x		0.3887	3.9451	5.0698	3.8311	1.0551	1.0250	1.5857	1.8915
σ		0.0126	0.0710	0.2849	0.2037	0.0275	0.0514	0.1393	0.2665
%RSD		3.2361	1.8004	5.6188	5.3163	2.6061	5.0135	8.7870	14.0887

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:13	1.9179	102.36%	0.5221	0.2059	-0.1256	0.7227	0.0419	0.0338
2	19:40:10	1.9876	97.69%	0.5291	0.2192	0.1401	0.5373	0.0780	0.0599
3	19:41:08	2.0492	97.32%	0.3443	0.0804	-0.1228	0.0962	0.0574	0.0575
x		1.9849	99.12%	0.4652	0.1685	-0.0361	0.4521	0.0591	0.0504
σ		0.0657	2.81%	0.1048	0.0766	0.1526	0.3218	0.0181	0.0144
%RSD		3.3103	2.84	22.5190	45.4432	422.9298	71.1883	30.5905	28.6390

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:13	0.0441	99.40%	0.0095	0.0033	0.0097	0.0047	-0.0009	96.39%
2	19:40:10	0.0527	97.54%	0.0053	0.0022	0.0145	0.0059	0.0071	97.39%
3	19:41:08	0.0531	96.82%	0.0060	0.0017	0.0098	0.0035	0.0102	95.97%
x		0.0500	97.92%	0.0069	0.0024	0.0113	0.0047	0.0055	96.58%
σ		0.0051	1.33%	0.0022	0.0008	0.0028	0.0012	0.0057	0.73%
%RSD		10.2139	1.36	32.2904	33.0191	24.3369	25.7046	105.4432	0.75

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:13	0.0167	0.0240	13.5286	13.5279	13.6217	95.92%	0.0160	0.0218
2	19:40:10	0.0158	0.0176	13.5503	13.2454	13.2534	97.58%	0.0129	0.0132
3	19:41:08	0.0191	0.0322	13.5101	13.3037	13.3944	99.34%	0.0055	0.0084
x		0.0172	0.0246	13.5297	13.3590	13.4232	97.61%	0.0115	0.0144
σ		0.0017	0.0073	0.0201	0.1492	0.1858	1.71%	0.0054	0.0068
%RSD		10.0916	29.6261	0.1486	1.1166	1.3842	1.75	47.1350	47.0675

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:39:13	0.1566	0.1478	0.1602
2	19:40:10	0.1434	0.1643	0.1530
3	19:41:08	0.1374	0.1626	0.1581
x		0.1458	0.1582	0.1571
σ		0.0098	0.0091	0.0037
%RSD		6.7414	5.7430	2.3784

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:00	104.65%	0.0667	1000.5411	105.64%	1.5835	4.8064	4.6615	81.8590
2	19:44:57	93.59%	0.0650	1003.9148	100.19%	1.3998	4.5694	5.0027	80.2385
3	19:45:55	100.30%	0.0543	997.8734	103.04%	1.5019	4.8520	4.7524	83.0550
x		99.51%	0.0620	1000.7764	102.96%	1.4951	4.7426	4.8055	81.7175
σ		5.57%	0.0068	3.0276	2.73%	0.0921	0.1517	0.1767	1.4135
%RSD		5.60	10.9005	0.3025	2.65	6.1576	3.1992	3.6765	1.7298

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:00	0.4759	2.2016	3.0138	2.0104	1.1478	1.1564	3.2003	4.0889
2	19:44:57	0.4502	1.8296	3.8401	1.8406	1.0842	1.0118	2.9948	3.7814
3	19:45:55	0.4982	2.0544	3.2293	1.6731	1.1105	1.1017	2.9480	4.3962
x		0.4748	2.0285	3.3611	1.8414	1.1142	1.0900	3.0477	4.0888
σ		0.0240	0.1873	0.4286	0.1686	0.0319	0.0730	0.1342	0.3074
%RSD		5.0563	9.2348	12.7516	9.1589	2.8665	6.7000	4.4025	7.5179

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:00	3.9125	101.08%	0.1166	0.1650	0.1133	-0.3319	0.0340	0.0456
2	19:44:57	3.8213	100.07%	0.2633	0.4859	0.0764	0.6322	0.0236	0.0371
3	19:45:55	3.8799	101.51%	0.3682	0.3435	-0.6233	0.5290	0.0662	0.0340
x		3.8712	100.89%	0.2494	0.3315	-0.1445	0.2764	0.0413	0.0389
σ		0.0462	0.74%	0.1264	0.1608	0.4150	0.5294	0.0222	0.0060
%RSD		1.1935	0.73	50.6783	48.5087	287.2095	191.5039	53.7834	15.3766

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:00	0.0227	97.58%	0.0022	0.0017	0.0145	0.0295	0.0229	97.86%
2	19:44:57	0.0279	98.23%	0.0032	0.0038	0.0338	0.0134	0.0190	97.61%
3	19:45:55	0.0434	98.78%	0.0068	0.0011	0.0190	0.0204	0.0176	99.60%
x		0.0313	98.20%	0.0041	0.0022	0.0224	0.0211	0.0198	98.36%
σ		0.0107	0.60%	0.0024	0.0015	0.0101	0.0081	0.0028	1.08%
%RSD		34.3032	0.61	60.1309	66.2949	44.9983	38.4151	13.8980	1.10

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:00	0.0165	0.0186	28.4342	28.2394	28.0962	96.89%	0.0076	0.0111
2	19:44:57	0.0204	0.0155	27.2491	27.3711	27.5743	100.39%	0.0132	0.0132
3	19:45:55	0.0169	0.0172	27.9107	27.7997	28.1453	101.27%	0.0187	0.0130
x		0.0179	0.0171	27.8647	27.8034	27.9386	99.51%	0.0132	0.0125
σ		0.0021	0.0015	0.5939	0.4342	0.3165	2.32%	0.0055	0.0012
%RSD		11.9259	9.0062	2.1313	1.5616	1.1327	2.33	42.0456	9.2459

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:44:00	0.4259	0.4965	0.4537
2	19:44:57	0.3915	0.4573	0.4348
3	19:45:55	0.4087	0.4526	0.4460
x		0.4087	0.4688	0.4448
σ		0.0172	0.0241	0.0095
%RSD		4.2037	5.1432	2.1348

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:48:47	110.65%	0.0211	231.3308	107.67%	0.6885	1.2105	1.3173	22.9304
2	19:49:44	102.56%	0.0210	221.2789	105.92%	0.6174	1.1583	1.3225	21.9643
3	19:50:42	96.15%	0.0212	220.3198	104.55%	0.6677	1.1273	1.1704	21.6834
x		103.12%	0.0211	224.3099	106.05%	0.6578	1.1654	1.2701	22.1927
σ		7.27%	0.0001	6.0992	1.57%	0.0365	0.0421	0.0863	0.6541
%RSD		7.05	0.3876	2.7191	1.48	5.5558	3.6096	6.7985	2.9475

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:48:47	0.1722	0.7778	1.8897	0.4064	0.5290	0.4682	1.1435	1.9025
2	19:49:44	0.1751	0.7665	2.0096	0.3929	0.4963	0.5352	1.2499	2.0319
3	19:50:42	0.1612	0.7771	2.2849	0.4724	0.4715	0.4552	1.2127	1.6372
x		0.1695	0.7738	2.0614	0.4239	0.4989	0.4862	1.2020	1.8572
σ		0.0074	0.0063	0.2026	0.0425	0.0288	0.0429	0.0540	0.2012
%RSD		4.3440	0.8131	9.8288	10.0277	5.7781	8.8265	4.4931	10.8343

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:48:47	1.7006	101.32%	0.2317	0.3445	-0.0673	0.5296	0.0252	0.0452
2	19:49:44	1.6759	97.03%	0.1986	0.2203	0.3385	0.4699	0.0220	0.0260
3	19:50:42	1.7646	97.96%	0.3280	0.1722	-0.4158	0.5719	0.0275	0.0320
x		1.7137	98.77%	0.2528	0.2457	-0.0482	0.5238	0.0249	0.0344
σ		0.0458	2.26%	0.0673	0.0889	0.3775	0.0512	0.0028	0.0098
%RSD		2.6705	2.29	26.6051	36.1860	783.2360	9.7830	11.0682	28.6205

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:48:47	0.0267	98.35%	0.0016	-0.0010	0.0048	0.0084	0.0011	97.06%
2	19:49:44	0.0216	98.69%	0.0053	0.0006	0.0024	0.0083	0.0080	98.38%
3	19:50:42	0.0176	97.14%	0.0022	0.0011	0.0024	0.0021	0.0020	98.43%
x		0.0220	98.06%	0.0030	0.0002	0.0032	0.0063	0.0037	97.96%
σ		0.0046	0.82%	0.0020	0.0011	0.0014	0.0036	0.0037	0.77%
%RSD		20.7713	0.83	65.2557	534.0755	43.7985	57.1905	101.3149	0.79

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:48:47	0.0143	0.0065	19.4451	19.0069	19.0373	96.31%	0.0059	0.0060
2	19:49:44	0.0047	0.0044	18.7220	18.3313	18.2966	98.95%	0.0055	0.0035
3	19:50:42	0.0117	0.0134	18.6606	18.2910	18.5468	100.17%	0.0041	0.0032
x		0.0102	0.0081	18.9426	18.5431	18.6269	98.48%	0.0052	0.0042
σ		0.0050	0.0047	0.4363	0.4022	0.3768	1.97%	0.0010	0.0015
%RSD		48.5313	58.0300	2.3032	2.1689	2.0227	2.00	18.6132	36.2552

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:48:47	0.1142	0.1191	0.1161
2	19:49:44	0.1036	0.1178	0.1094
3	19:50:42	0.0897	0.1105	0.1019
x		0.1025	0.1158	0.1092
σ		0.0123	0.0046	0.0071
%RSD		11.9563	3.9952	6.5372

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:30	103.02%	0.0223	252.1736	97.47%	1.0382	0.9747	1.1942	120.1102
2	19:54:28	97.72%	0.0163	244.5223	101.44%	1.0164	0.8885	1.0345	110.7283
3	19:55:25	98.49%	0.0200	241.4061	103.13%	0.9665	0.9163	0.9556	109.3342
x		99.74%	0.0195	246.0340	100.68%	1.0070	0.9265	1.0614	113.3909
σ		2.86%	0.0031	5.5406	2.91%	0.0367	0.0440	0.1216	5.8607
%RSD		2.87	15.6634	2.2520	2.89	3.6487	4.7519	11.4536	5.1686

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:30	0.6649	2.6844	3.7367	2.2259	1.1556	1.0928	2.0596	3.2909
2	19:54:28	0.6227	2.5102	3.5108	2.0597	1.0460	1.0728	1.9692	2.5792
3	19:55:25	0.6190	2.5841	3.1785	2.0935	1.0643	0.9898	1.9711	2.9886
x		0.6355	2.5929	3.4754	2.1264	1.0886	1.0518	2.0000	2.9529
σ		0.0255	0.0874	0.2808	0.0878	0.0588	0.0546	0.0516	0.3572
%RSD		4.0128	3.3715	8.0793	4.1303	5.3976	5.1914	2.5811	12.0959

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:30	2.8808	93.62%	0.6144	0.0399	0.1756	0.6254	0.0367	0.0311
2	19:54:28	2.8506	97.90%	0.3556	0.0803	0.0688	-0.1785	0.0370	0.0528
3	19:55:25	2.9109	98.52%	0.6470	0.1247	-0.1819	1.0095	0.0396	0.0347
x		2.8808	96.68%	0.5390	0.0816	0.0208	0.4855	0.0378	0.0396
σ		0.0302	2.67%	0.1596	0.0424	0.1835	0.6063	0.0016	0.0116
%RSD		1.0475	2.76	29.6201	51.9700	881.3414	124.8759	4.2326	29.4435

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:30	0.0351	91.00%	0.0075	0.0037	0.0154	0.0091	0.0139	92.46%
2	19:54:28	0.0269	94.57%	0.0017	0.0034	0.0000	0.0048	0.0041	96.90%
3	19:55:25	0.0336	97.18%	0.0016	-0.0005	0.0215	0.0107	0.0108	99.25%
x		0.0319	94.25%	0.0036	0.0022	0.0123	0.0082	0.0096	96.21%
σ		0.0043	3.10%	0.0034	0.0024	0.0111	0.0031	0.0050	3.45%
%RSD		13.6342	3.29	93.2929	107.0375	90.1362	37.6931	52.0714	3.58

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:30	0.0258	0.0283	28.9931	28.7548	28.9873	92.65%	0.0059	0.0094
2	19:54:28	0.0229	0.0146	27.8453	26.9622	27.3377	98.35%	0.0038	0.0063
3	19:55:25	0.0224	0.0232	26.4711	27.1889	27.0579	101.29%	0.0096	0.0058
x		0.0237	0.0220	27.7698	27.6353	27.7943	97.43%	0.0064	0.0072
σ		0.0018	0.0069	1.2627	0.9761	1.0426	4.39%	0.0029	0.0020
%RSD		7.6895	31.2430	4.5470	3.5321	3.7510	4.51	45.3032	27.4417

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:53:30	0.2838	0.2857	0.2790
2	19:54:28	0.2335	0.2780	0.2578
3	19:55:25	0.2295	0.2628	0.2514
x		0.2489	0.2755	0.2627
σ		0.0303	0.0116	0.0144
%RSD		12.1538	4.2179	5.4896

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:14	102.86%	0.0378	577.3743	106.49%	1.4449	1.2691	1.4078	54.0029
2	19:59:12	97.25%	0.0402	564.1707	98.89%	1.4708	1.3667	1.4941	55.2971
3	20:00:09	91.73%	0.0370	592.6833	98.62%	1.4678	1.3684	1.4709	55.7845
x		97.28%	0.0384	578.0761	101.34%	1.4612	1.3347	1.4576	55.0281
σ		5.57%	0.0017	14.2692	4.47%	0.0141	0.0569	0.0447	0.9207
%RSD		5.72	4.3324	2.4684	4.41	0.9679	4.2598	3.0645	1.6732

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:14	0.6022	4.1891	6.9708	3.4916	1.1422	1.0746	2.8018	3.6543
2	19:59:12	0.5674	3.9754	5.4827	3.3507	1.1626	1.1645	2.8055	4.2421
3	20:00:09	0.6160	4.2713	5.8101	3.9573	1.1685	1.1284	2.8349	3.1669
x		0.5952	4.1453	6.0879	3.5998	1.1578	1.1225	2.8141	3.6878
σ		0.0251	0.1527	0.7820	0.3175	0.0138	0.0452	0.0182	0.5384
%RSD		4.2104	3.6841	12.8451	8.8192	1.1903	4.0291	0.6460	14.5991

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:14	3.3263	102.46%	0.5896	0.2501	0.0375	0.8192	0.0418	0.0173
2	19:59:12	3.4657	97.56%	0.4516	0.3139	-0.3276	0.7450	0.0401	0.0494
3	20:00:09	3.5456	95.86%	0.4414	0.0357	0.4661	0.5087	0.0261	0.0496
x		3.4459	98.63%	0.4942	0.1999	0.0587	0.6909	0.0360	0.0388
σ		0.1110	3.43%	0.0828	0.1458	0.3973	0.1621	0.0086	0.0186
%RSD		3.2212	3.47	16.7488	72.9229	677.1415	23.4671	23.8834	47.9278

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:14	0.0221	99.73%	0.0057	0.0037	0.0165	0.0045	0.0126	100.44%
2	19:59:12	0.0298	96.00%	0.0043	0.0001	0.0072	0.0096	0.0050	98.59%
3	20:00:09	0.0364	95.88%	0.0049	0.0033	0.0121	0.0158	0.0090	98.51%
x		0.0294	97.20%	0.0050	0.0024	0.0119	0.0100	0.0089	99.18%
σ		0.0071	2.19%	0.0007	0.0020	0.0046	0.0057	0.0038	1.09%
%RSD		24.2447	2.25	13.8891	85.0379	38.7114	57.1780	43.0453	1.10

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:14	0.0168	0.0200	26.0305	25.1010	25.4829	99.56%	0.0160	0.0089
2	19:59:12	0.0179	0.0174	26.0271	25.7474	25.8295	100.41%	0.0097	0.0114
3	20:00:09	0.0233	0.0234	26.8517	26.0187	26.4032	100.28%	0.0076	0.0125
x		0.0193	0.0203	26.3031	25.6224	25.9052	100.09%	0.0111	0.0109
σ		0.0035	0.0030	0.4751	0.4715	0.4648	0.46%	0.0044	0.0019
%RSD		18.0846	14.8849	1.8064	1.8401	1.7942	0.46	39.6780	17.1432

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	19:58:14	0.2764	0.3294	0.3003
2	19:59:12	0.2881	0.3106	0.3076
3	20:00:09	0.3155	0.3245	0.3255
x		0.2933	0.3215	0.3112
σ		0.0201	0.0098	0.0130
%RSD		6.8475	3.0341	4.1666

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:56	114.14%	0.0267	320.5710	109.33%	1.0828	0.9772	1.0813	29.0280
2	20:03:53	98.92%	0.0134	325.5947	102.16%	1.0584	1.0022	1.0974	29.2873
3	20:04:51	93.59%	0.0266	329.3552	102.14%	1.1050	0.9709	1.0242	28.2028
x		102.21%	0.0222	325.1736	104.54%	1.0821	0.9834	1.0676	28.8394
σ		10.67%	0.0076	4.4072	4.14%	0.0233	0.0166	0.0385	0.5663
%RSD		10.43	34.2590	1.3553	3.96	2.1508	1.6867	3.6029	1.9638

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:56	0.3615	1.4579	2.5149	1.0113	1.6202	1.6205	1.7361	2.7131
2	20:03:53	0.3290	1.5055	1.7418	1.0652	1.6064	1.5211	1.5894	2.5953
3	20:04:51	0.3576	1.3857	2.0934	1.0790	1.5805	1.6370	1.6695	2.3259
x		0.3494	1.4497	2.1167	1.0518	1.6024	1.5929	1.6650	2.5448
σ		0.0177	0.0603	0.3871	0.0358	0.0202	0.0627	0.0734	0.1985
%RSD		5.0744	4.1587	18.2866	3.4025	1.2598	3.9349	4.4109	7.7998

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:56	2.2127	100.71%	0.4380	0.0739	-0.0282	0.2321	0.0315	0.0660
2	20:03:53	2.2977	98.52%	0.5725	0.0790	-0.4044	0.6063	0.0472	0.0522
3	20:04:51	2.1726	99.54%	0.4428	-0.0606	-0.1695	0.1311	0.0504	0.0463
x		2.2277	99.59%	0.4844	0.0307	-0.2007	0.3232	0.0430	0.0548
σ		0.0639	1.09%	0.0763	0.0791	0.1900	0.2503	0.0101	0.0101
%RSD		2.8689	1.10	15.7481	257.4794	94.6961	77.4601	23.5239	18.4664

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:56	0.0446	100.97%	0.0067	0.0047	0.0070	0.0044	0.0096	100.79%
2	20:03:53	0.0406	95.72%	0.0033	0.0006	0.0122	0.0059	0.0080	97.66%
3	20:04:51	0.0543	96.21%	0.0059	0.0039	0.0097	0.0134	0.0021	97.66%
x		0.0465	97.63%	0.0053	0.0031	0.0096	0.0079	0.0066	98.70%
σ		0.0070	2.90%	0.0018	0.0022	0.0026	0.0048	0.0040	1.81%
%RSD		15.1579	2.97	33.5571	70.3673	26.7115	60.8825	60.7990	1.83

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:56	0.0236	0.0209	19.2619	19.4890	19.1790	100.44%	0.0093	0.0119
2	20:03:53	0.0157	0.0145	19.6661	19.3022	19.5939	99.24%	0.0099	0.0075
3	20:04:51	0.0282	0.0225	19.5419	19.7035	19.6178	100.73%	0.0092	0.0094
x		0.0225	0.0193	19.4900	19.4982	19.4636	100.14%	0.0095	0.0096
σ		0.0063	0.0042	0.2070	0.2008	0.2467	0.79%	0.0004	0.0022
%RSD		28.1100	21.9512	1.0622	1.0297	1.2677	0.79	4.0313	23.4155

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:02:56	0.1836	0.2100	0.2052
2	20:03:53	0.2065	0.2223	0.2148
3	20:04:51	0.2110	0.2139	0.2125
x		0.2004	0.2154	0.2108
σ		0.0147	0.0063	0.0050
%RSD		7.3232	2.9208	2.3708

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:07:37	107.71%	0.0289	299.2368	109.60%	0.9658	0.8600	1.0814	28.4663
2	20:08:34	99.57%	0.0243	305.0490	103.58%	1.0267	0.8871	1.0052	28.9624
3	20:09:32	98.33%	0.0240	296.8057	101.22%	1.0526	0.8742	0.9430	28.7670
x		101.87%	0.0257	300.3639	104.80%	1.0150	0.8738	1.0099	28.7319
σ		5.10%	0.0027	4.2357	4.32%	0.0445	0.0135	0.0693	0.2499
%RSD		5.00	10.5917	1.4102	4.12	4.3875	1.5477	6.8653	0.8697

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:07:37	0.3396	1.3754	2.5696	1.1162	1.6128	1.4524	1.3629	2.2062
2	20:08:34	0.3353	1.4286	2.5146	1.1107	1.5850	1.5462	1.6700	2.1580
3	20:09:32	0.3295	1.4893	2.3934	1.0764	1.5327	1.4895	1.4710	2.1204
x		0.3348	1.4311	2.4926	1.1011	1.5768	1.4960	1.5013	2.1615
σ		0.0051	0.0570	0.0902	0.0216	0.0407	0.0473	0.1558	0.0430
%RSD		1.5094	3.9817	3.6180	1.9612	2.5781	3.1590	10.3756	1.9914

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:07:37	2.1268	101.91%	0.6196	0.1169	0.3658	0.6894	0.0433	0.0471
2	20:08:34	2.2545	98.63%	0.4219	0.1243	0.0590	0.1319	0.0500	0.0598
3	20:09:32	2.1059	99.28%	0.6213	0.1228	0.0379	1.0692	0.0565	0.0399
x		2.1624	99.94%	0.5543	0.1213	0.1542	0.6301	0.0499	0.0489
σ		0.0804	1.74%	0.1147	0.0039	0.1835	0.4714	0.0066	0.0101
%RSD		3.7186	1.74	20.6911	3.1988	119.0195	74.8132	13.2303	20.6452

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:07:37	0.0354	100.60%	0.0031	0.0042	0.0095	0.0057	0.0079	99.29%
2	20:08:34	0.0346	97.50%	0.0048	0.0027	0.0096	0.0034	0.0109	98.51%
3	20:09:32	0.0321	98.28%	0.0058	0.0059	0.0048	0.0046	0.0030	98.83%
x		0.0340	98.80%	0.0046	0.0043	0.0080	0.0046	0.0073	98.87%
σ		0.0017	1.62%	0.0014	0.0016	0.0027	0.0012	0.0040	0.39%
%RSD		4.9459	1.64	29.9433	37.2268	34.5298	25.8968	55.1130	0.40

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:07:37	0.0216	0.0282	19.2327	18.8960	19.2270	99.71%	0.0081	0.0085
2	20:08:34	0.0256	0.0223	19.1168	19.2913	19.3932	101.03%	0.0057	0.0102
3	20:09:32	0.0217	0.0173	19.8098	19.0755	19.2037	102.65%	0.0051	0.0096
x		0.0230	0.0226	19.3864	19.0876	19.2747	101.13%	0.0063	0.0094
σ		0.0023	0.0055	0.3712	0.1980	0.1033	1.47%	0.0016	0.0009
%RSD		10.0519	24.1935	1.9147	1.0371	0.5360	1.46	25.1120	9.4607

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:07:37	0.1816	0.2187	0.2024
2	20:08:34	0.1830	0.1942	0.1903
3	20:09:32	0.1782	0.2073	0.1985
x		0.1810	0.2067	0.1971
σ		0.0025	0.0123	0.0062
%RSD		1.3769	5.9450	3.1418

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:19	111.36%	0.0128	43.3758	110.40%	0.1300	0.6562	0.8666	4.9504
2	20:13:16	101.95%	0.0117	43.9967	102.89%	0.1411	0.6792	0.8492	5.1582
3	20:14:14	100.51%	0.0093	43.0208	104.04%	0.1917	0.6620	0.7869	4.8923
x		104.61%	0.0113	43.4644	105.78%	0.1543	0.6658	0.8342	5.0003
σ		5.90%	0.0018	0.4940	4.04%	0.0329	0.0119	0.0419	0.1398
%RSD		5.64	15.7659	1.1365	3.82	21.3522	1.7933	5.0251	2.7961

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:19	0.0522	0.8219	2.1945	0.4175	0.1926	0.1487	1.2926	1.9760
2	20:13:16	0.0470	0.7874	2.2441	0.4658	0.2024	0.1718	1.2552	2.1237
3	20:14:14	0.0515	0.7598	1.1902	0.4486	0.1985	0.1679	1.3716	1.8227
x		0.0502	0.7897	1.8763	0.4440	0.1978	0.1628	1.3064	1.9741
σ		0.0028	0.0311	0.5947	0.0245	0.0049	0.0124	0.0594	0.1505
%RSD		5.6411	3.9376	31.6949	5.5109	2.4856	7.5911	4.5480	7.6233

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:19	2.1087	102.21%	0.2360	0.0272	-0.1021	0.6235	0.0061	0.0090
2	20:13:16	2.0551	100.57%	0.1871	-0.0161	-0.3147	0.3648	0.0130	0.0119
3	20:14:14	2.1325	96.85%	0.0788	0.0810	-0.0998	-0.0067	0.0100	0.0066
x		2.0987	99.88%	0.1673	0.0307	-0.1722	0.3272	0.0097	0.0092
σ		0.0397	2.74%	0.0805	0.0486	0.1234	0.3168	0.0035	0.0026
%RSD		1.8896	2.75	48.0974	158.2555	71.6681	96.8267	35.4867	28.5195

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:19	0.0096	100.62%	0.0005	-0.0000	0.0117	0.0068	0.0086	101.45%
2	20:13:16	0.0118	99.87%	-0.0005	-0.0011	0.0048	0.0070	0.0050	98.27%
3	20:14:14	0.0134	97.20%	0.0006	0.0016	0.0142	0.0155	0.0058	100.73%
x		0.0116	99.23%	0.0002	0.0002	0.0102	0.0098	0.0065	100.15%
σ		0.0019	1.80%	0.0006	0.0014	0.0049	0.0049	0.0019	1.67%
%RSD		16.4921	1.81	324.5885	818.6734	47.8044	50.5469	29.4274	1.67

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:19	0.0114	0.0072	22.6331	22.4023	22.7765	98.93%	0.0002	0.0051
2	20:13:16	0.0070	0.0054	23.2082	23.3760	23.1320	99.64%	0.0032	0.0047
3	20:14:14	0.0061	0.0042	22.4309	22.4016	22.5044	102.70%	0.0055	0.0030
x		0.0081	0.0056	22.7574	22.7267	22.8043	100.42%	0.0030	0.0043
σ		0.0028	0.0015	0.4033	0.5624	0.3147	2.00%	0.0027	0.0011
%RSD		34.5791	26.2877	1.7721	2.4745	1.3801	1.99	89.0045	26.7795

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:12:19	0.0090	0.0113	0.0113
2	20:13:16	0.0114	0.0138	0.0116
3	20:14:14	0.0080	0.0113	0.0092
x		0.0095	0.0121	0.0107
σ		0.0017	0.0014	0.0013
%RSD		17.9643	11.6178	12.2781

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:05	109.68%	0.0125	92.8960	109.29%	0.3566	0.9767	1.0292	10.1555
2	20:18:03	101.35%	0.0055	88.2714	101.34%	0.4065	0.9710	0.9743	9.6309
3	20:19:00	94.63%	0.0080	89.1316	102.82%	0.4273	0.9404	0.8590	9.4561
x		101.89%	0.0087	90.0997	104.49%	0.3968	0.9627	0.9542	9.7475
σ		7.54%	0.0036	2.4596	4.23%	0.0364	0.0195	0.0869	0.3640
%RSD		7.40	41.0441	2.7299	4.05	9.1618	2.0297	9.1078	3.7340

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:05	0.1562	3.2494	5.3087	2.8476	0.7804	0.7434	1.2587	1.4728
2	20:18:03	0.1610	3.0385	3.4245	2.8227	0.7198	0.7075	1.1961	1.8414
3	20:19:00	0.1365	3.0651	3.9372	2.7097	0.7359	0.7244	1.1876	1.9498
x		0.1512	3.1177	4.2235	2.7933	0.7454	0.7251	1.2141	1.7547
σ		0.0130	0.1148	0.9742	0.0735	0.0314	0.0180	0.0388	0.2500
%RSD		8.5877	3.6834	23.0660	2.6310	4.2134	2.4811	3.1963	14.2498

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:05	1.5353	100.79%	0.2644	0.1650	-0.1291	0.1665	0.0166	0.0147
2	20:18:03	1.6429	99.18%	0.3463	-0.0148	-0.2333	0.3667	0.0115	0.0176
3	20:19:00	1.4282	98.39%	0.1552	0.4022	-0.1533	0.0631	0.0134	0.0206
x		1.5354	99.45%	0.2553	0.1841	-0.1719	0.1987	0.0138	0.0177
σ		0.1074	1.22%	0.0959	0.2091	0.0545	0.1544	0.0026	0.0029
%RSD		6.9916	1.23	37.5542	113.5861	31.7126	77.6705	18.4555	16.5083

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:05	0.0151	98.83%	0.0053	-0.0016	0.0048	0.0095	0.0040	98.69%
2	20:18:03	0.0194	98.42%	0.0011	0.0000	0.0048	0.0071	0.0070	98.32%
3	20:19:00	0.0079	97.70%	-0.0005	0.0017	0.0000	0.0021	0.0020	98.13%
x		0.0141	98.32%	0.0019	0.0000	0.0032	0.0062	0.0043	98.38%
σ		0.0058	0.57%	0.0030	0.0016	0.0028	0.0038	0.0025	0.28%
%RSD		41.0502	0.58	152.3870	6126.5326	86.6030	60.1402	57.4880	0.29

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:05	0.0225	0.0174	12.1433	11.8271	11.6881	98.57%	-0.0020	-0.0006
2	20:18:03	0.0218	0.0164	11.9603	11.5416	11.4124	100.80%	-0.0004	0.0001
3	20:19:00	0.0164	0.0144	11.6208	11.3862	11.3935	102.15%	-0.0004	-0.0012
x		0.0202	0.0161	11.9081	11.5850	11.4980	100.51%	-0.0009	-0.0006
σ		0.0034	0.0015	0.2651	0.2236	0.1649	1.81%	0.0009	0.0007
%RSD		16.7001	9.5130	2.2263	1.9300	1.4343	1.80	98.6884	116.3924

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:17:05	0.0342	0.0316	0.0327
2	20:18:03	0.0271	0.0289	0.0305
3	20:19:00	0.0314	0.0341	0.0311
x		0.0309	0.0315	0.0314
σ		0.0036	0.0026	0.0011
%RSD		11.6185	8.2969	3.5118

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:48	115.54%	0.0565	706.9588	111.69%	0.8535	3.8466	4.0131	75.4416
2	20:22:45	102.05%	0.0602	711.5228	105.31%	0.8809	3.8114	3.8558	74.9001
3	20:23:43	94.38%	0.0503	737.1008	98.71%	0.8506	3.9013	4.1605	76.8597
x		103.99%	0.0557	718.5275	105.24%	0.8617	3.8531	4.0098	75.7338
σ		10.71%	0.0050	16.2460	6.49%	0.0167	0.0453	0.1524	1.0119
%RSD		10.30	9.0074	2.2610	6.17	1.9364	1.1757	3.8003	1.3362

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:48	0.4035	2.0175	3.0777	1.4762	0.8680	0.8547	2.9628	3.8334
2	20:22:45	0.3769	1.8033	2.9470	1.3223	0.9604	0.8386	2.8047	3.7699
3	20:23:43	0.3766	1.8001	2.6833	1.5182	0.9629	0.9055	2.9802	3.4852
x		0.3857	1.8736	2.9027	1.4389	0.9304	0.8663	2.9159	3.6961
σ		0.0154	0.1246	0.2009	0.1031	0.0541	0.0349	0.0967	0.1855
%RSD		4.0020	6.6511	6.9218	7.1661	5.8158	4.0312	3.3165	5.0177

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:48	3.6638	106.37%	0.2154	0.2377	-0.0139	0.3589	0.0109	0.0407
2	20:22:45	3.7186	102.03%	0.1644	0.2952	-0.2392	0.1347	0.0162	0.0253
3	20:23:43	3.7172	98.74%	0.3138	0.2176	-0.0027	0.6052	0.0171	0.0295
x		3.6999	102.38%	0.2312	0.2502	-0.0853	0.3662	0.0148	0.0318
σ		0.0312	3.83%	0.0759	0.0403	0.1334	0.2353	0.0034	0.0080
%RSD		0.8446	3.74	32.8544	16.0958	156.4863	64.2586	22.8567	25.0236

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:48	0.0082	102.36%	0.0035	-0.0016	0.0185	0.0318	0.0229	101.86%
2	20:22:45	0.0075	100.85%	-0.0000	-0.0016	0.0163	0.0200	0.0143	101.73%
3	20:23:43	0.0103	95.64%	0.0006	-0.0005	0.0220	0.0250	0.0253	96.68%
x		0.0087	99.62%	0.0014	-0.0012	0.0189	0.0256	0.0208	100.09%
σ		0.0015	3.53%	0.0019	0.0007	0.0029	0.0059	0.0057	2.95%
%RSD		16.9777	3.54	137.4814	54.0091	15.3435	23.2337	27.5938	2.95

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:48	0.0151	0.0168	26.7816	26.4314	26.4681	100.40%	0.0040	0.0086
2	20:22:45	0.0098	0.0090	26.1338	26.3387	25.9728	102.02%	0.0082	0.0083
3	20:23:43	0.0190	0.0167	27.3067	27.2364	27.1953	100.62%	0.0066	0.0071
x		0.0146	0.0142	26.7407	26.6688	26.5454	101.01%	0.0063	0.0080
σ		0.0046	0.0044	0.5875	0.4937	0.6149	0.88%	0.0021	0.0008
%RSD		31.6135	31.3516	2.1970	1.8513	2.3164	0.87	33.2226	9.8051

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:21:48	0.2625	0.3030	0.2885
2	20:22:45	0.2559	0.2823	0.2767
3	20:23:43	0.2624	0.3106	0.2978
x		0.2603	0.2986	0.2877
σ		0.0038	0.0146	0.0106
%RSD		1.4604	4.8985	3.6766

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:33	105.10%	26.4433	26.5296	99.02%	26.0734	25.7254	26.3996	26.3760
2	20:27:31	96.51%	24.9877	25.6123	97.41%	24.6962	24.8212	25.1114	25.3890
3	20:28:28	94.00%	23.7328	24.9262	94.07%	24.4939	25.4279	25.9416	25.5761
x		98.54%	25.0546	25.6894	96.83%	25.0878	25.3248	25.8175	25.7804
σ		5.82%	1.3565	0.8045	2.53%	0.8595	0.4608	0.6530	0.5242
%RSD		5.91	5.4141	3.1315	2.61	3.4259	1.8196	2.5293	2.0334

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:33	26.8784	25.7715	25.6744	25.9411	26.2520	25.9080	25.2849	26.3069
2	20:27:31	25.4605	24.8585	23.6091	24.7097	24.3697	24.5980	24.5677	22.8862
3	20:28:28	24.8912	24.1058	21.4757	23.8781	24.7505	24.0388	24.4331	23.6007
x		25.7433	24.9119	23.5864	24.8430	25.1241	24.8483	24.7619	24.2646
σ		1.0234	0.8342	2.0995	1.0380	0.9952	0.9594	0.4579	1.8044
%RSD		3.9753	3.3484	8.9012	4.1781	3.9613	3.8610	1.8491	7.4362

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:33	26.0162	98.67%	25.9352	25.4612	27.1698	26.3032	25.8938	26.2672
2	20:27:31	25.2560	96.84%	24.7349	26.2012	24.6677	25.6558	24.7884	25.0729
3	20:28:28	24.8696	96.04%	24.6751	25.0124	24.9240	25.0592	25.1406	25.4944
x		25.3806	97.19%	25.1151	25.5583	25.5871	25.6727	25.2743	25.6115
σ		0.5834	1.35%	0.7108	0.6003	1.3766	0.6221	0.5647	0.6057
%RSD		2.2985	1.39	2.8303	2.3488	5.3801	2.4234	2.2342	2.3651

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:33	25.4752	97.60%	26.1216	26.0563	26.2236	26.0984	25.8569	97.17%
2	20:27:31	24.6764	98.16%	25.2065	25.2164	24.6817	24.6311	24.7559	98.97%
3	20:28:28	25.0307	97.16%	25.5678	25.4235	25.6621	24.8849	24.8172	97.79%
x		25.0607	97.64%	25.6320	25.5654	25.5224	25.2048	25.1433	97.98%
σ		0.4002	0.50%	0.4609	0.4376	0.7804	0.7842	0.6187	0.91%
%RSD		1.5971	0.51	1.7981	1.7116	3.0576	3.1113	2.4607	0.93

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:33	25.9396	25.6656	26.3482	25.7952	26.1296	96.09%	25.7868	25.7847
2	20:27:31	24.6275	24.6741	24.9425	25.2382	24.8496	99.48%	25.2563	25.1113
3	20:28:28	24.7977	24.9895	24.9551	24.3235	24.8357	101.26%	25.1139	25.0427
x		25.1216	25.1097	25.4152	25.1189	25.2717	98.94%	25.3857	25.3129
σ		0.7135	0.5066	0.8080	0.7431	0.7431	2.62%	0.3546	0.4100
%RSD		2.8404	2.0174	3.1791	2.9582	2.9403	2.65	1.3968	1.6198

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:26:33	25.9780	25.9892	25.9669
2	20:27:31	25.2497	25.2697	25.1108
3	20:28:28	24.9520	24.9113	24.9513
x		25.3932	25.3901	25.3430
σ		0.5279	0.5489	0.5462
%RSD		2.0788	2.1621	2.1551

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:38	117.10%	-0.0006	-0.0109	109.56%	0.0002	0.0182	-0.0647	-0.0036
2	20:36:35	101.89%	-0.0009	-0.0055	102.54%	0.0138	0.0218	-0.0826	0.0023
3	20:37:33	96.48%	-0.0008	0.0243	97.30%	-0.0032	0.0111	-0.0421	-0.0032
x		105.16%	-0.0008	0.0026	103.14%	0.0036	0.0170	-0.0632	-0.0015
σ		10.69%	0.0002	0.0189	6.15%	0.0090	0.0054	0.0203	0.0033
%RSD		10.16	20.8361	719.2544	5.97	250.2984	31.8382	32.1206	218.3850

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:38	-0.0031	-0.0009	0.5172	-0.3165	-0.0299	-0.0153	-0.0537	0.0063
2	20:36:35	-0.0034	-0.0029	0.7492	-0.4166	-0.0342	-0.0185	-0.0226	-0.0553
3	20:37:33	-0.0033	0.0016	-0.1330	-0.4647	-0.0378	-0.0180	-0.0455	0.0137
x		-0.0033	-0.0007	0.3778	-0.3992	-0.0340	-0.0173	-0.0406	-0.0117
σ		0.0002	0.0023	0.4573	0.0756	0.0040	0.0017	0.0161	0.0379
%RSD		4.6941	310.1946	121.0562	18.9352	11.7160	10.0687	39.6728	322.5764

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:38	0.0202	104.94%	0.1447	-0.0199	0.2856	0.5167	0.0594	0.0504
2	20:36:35	0.0127	101.97%	0.1249	0.0270	-0.4710	0.4595	0.0708	0.0570
3	20:37:33	0.0141	96.34%	-0.0484	0.0346	-0.0760	-0.1094	0.0799	0.0600
x		0.0157	101.08%	0.0737	0.0139	-0.0871	0.2889	0.0700	0.0558
σ		0.0040	4.37%	0.1062	0.0295	0.3784	0.3462	0.0103	0.0049
%RSD		25.7327	4.32	144.0907	212.7733	434.3171	119.8118	14.7091	8.8406

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:38	0.0575	104.93%	0.0029	-0.0006	0.0000	0.0031	-0.0000	102.69%
2	20:36:35	0.0610	102.62%	0.0040	0.0030	0.0023	-0.0005	0.0009	102.36%
3	20:37:33	0.0688	97.65%	0.0032	0.0006	0.0000	-0.0003	0.0000	98.35%
x		0.0624	101.73%	0.0034	0.0010	0.0008	0.0008	0.0003	101.13%
σ		0.0058	3.72%	0.0006	0.0019	0.0013	0.0020	0.0005	2.41%
%RSD		9.2316	3.65	16.5734	188.4169	173.2051	264.7570	173.7340	2.39

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:38	0.0037	-0.0007	0.0102	0.0077	-0.0002	98.26%	0.0056	0.0034
2	20:36:35	0.0007	0.0003	-0.0037	0.0018	0.0018	102.52%	0.0025	0.0065
3	20:37:33	0.0016	0.0054	-0.0035	-0.0019	-0.0020	99.19%	0.0068	0.0051
x		0.0020	0.0017	0.0010	0.0025	-0.0001	99.99%	0.0050	0.0050
σ		0.0015	0.0033	0.0080	0.0049	0.0019	2.24%	0.0022	0.0016
%RSD		77.1717	193.5892	782.4516	192.8186	1335.8596	2.24	44.4168	31.0288

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:35:38	-0.0027	-0.0010	-0.0017
2	20:36:35	-0.0028	0.0001	-0.0011
3	20:37:33	-0.0003	-0.0030	-0.0009
x		-0.0020	-0.0013	-0.0012
σ		0.0014	0.0016	0.0004
%RSD		72.9573	119.1171	33.4158

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	113.19%	0.0075	32.0770	109.34%	0.2562	0.6599	0.6834	6.6282
2	20:42:05	100.50%	0.0081	31.6327	103.41%	0.1721	0.6092	0.7863	6.4835
3	20:43:02	93.44%	0.0089	32.9419	99.57%	0.2228	0.6263	0.7037	6.7015
x		102.38%	0.0081	32.2172	104.11%	0.2170	0.6318	0.7245	6.6044
σ		10.01%	0.0007	0.6657	4.92%	0.0423	0.0258	0.0545	0.1110
%RSD		9.78	8.5960	2.0664	4.73	19.4984	4.0844	7.5220	1.6800

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	0.0362	0.4945	2.2794	0.0280	0.2943	0.2452	0.3432	1.0528
2	20:42:05	0.0419	0.4971	1.7563	0.0202	0.3018	0.2364	0.3478	0.7988
3	20:43:02	0.0492	0.5272	1.8186	-0.0296	0.2565	0.2504	0.4156	1.1013
x		0.0425	0.5063	1.9514	0.0062	0.2842	0.2440	0.3689	0.9843
σ		0.0065	0.0182	0.2857	0.0312	0.0243	0.0070	0.0405	0.1625
%RSD		15.3281	3.5947	14.6419	504.7449	8.5433	2.8886	10.9914	16.5089

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	0.7506	99.29%	0.2958	0.1678	-0.1580	0.9656	0.0182	0.0339
2	20:42:05	0.8400	97.15%	0.2126	0.0810	0.2102	0.6090	0.0190	0.0238
3	20:43:02	0.8522	94.39%	-0.0848	0.1813	-0.0030	-0.5695	0.0315	0.0439
x		0.8142	96.94%	0.1412	0.1434	0.0164	0.3350	0.0229	0.0339
σ		0.0554	2.46%	0.2001	0.0544	0.1849	0.8034	0.0075	0.0100
%RSD		6.8083	2.53	141.7090	37.9542	1128.2283	239.8149	32.6178	29.6262

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	0.0337	99.75%	0.0016	0.0011	0.0000	0.0033	0.0000	98.58%
2	20:42:05	0.0385	95.84%	0.0006	-0.0016	0.0049	0.0059	0.0021	97.65%
3	20:43:02	0.0212	96.15%	0.0022	-0.0005	0.0000	-0.0003	0.0021	96.98%
x		0.0312	97.25%	0.0015	-0.0003	0.0016	0.0030	0.0014	97.74%
σ		0.0089	2.17%	0.0008	0.0013	0.0028	0.0031	0.0012	0.81%
%RSD		28.6393	2.24	55.5294	404.7363	173.2051	105.1767	84.3369	0.83

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:08	0.0086	0.0064	15.8535	15.5660	15.9045	97.31%	0.0333	0.0291
2	20:42:05	0.0071	0.0085	15.9023	15.7664	15.5729	99.68%	0.0200	0.0205
3	20:43:02	0.0142	0.0055	15.7884	15.6102	15.8912	100.00%	0.0124	0.0178
x		0.0100	0.0068	15.8481	15.6475	15.7895	99.00%	0.0219	0.0225
σ		0.0038	0.0015	0.0571	0.1053	0.1877	1.47%	0.0105	0.0059
%RSD		37.8318	22.5426	0.3605	0.6728	1.1888	1.48	48.1921	26.3457

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:41:08	0.0202	0.0241	0.0234
2	20:42:05	0.0255	0.0176	0.0240
3	20:43:02	0.0181	0.0272	0.0242
x		0.0213	0.0230	0.0239
σ		0.0038	0.0049	0.0004
%RSD		17.8545	21.2608	1.8415

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:50	107.20%	0.0086	31.2253	103.98%	0.3044	0.4118	0.4771	100.6888
2	20:46:48	98.81%	0.0096	30.2015	99.35%	0.2729	0.4433	0.5595	99.6028
3	20:47:45	96.07%	0.0093	29.6801	97.65%	0.3311	0.4051	0.3913	99.1869
x		100.70%	0.0092	30.3690	100.33%	0.3028	0.4200	0.4759	99.8262
σ		5.80%	0.0005	0.7861	3.28%	0.0291	0.0204	0.0841	0.7754
%RSD		5.76	5.1987	2.5885	3.27	9.6227	4.8580	17.6714	0.7768

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:50	0.4389	2.0634	3.3418	1.5699	0.6755	0.6645	0.9651	1.5074
2	20:46:48	0.4690	1.8805	3.9653	1.4258	0.6854	0.6179	0.9999	2.1461
3	20:47:45	0.4467	1.9039	2.8399	1.4641	0.6664	0.6184	0.9411	1.9101
x		0.4515	1.9493	3.3824	1.4866	0.6758	0.6336	0.9687	1.8545
σ		0.0156	0.0995	0.5638	0.0747	0.0095	0.0268	0.0296	0.3230
%RSD		3.4612	5.1068	16.6687	5.0220	1.4089	4.2277	3.0507	17.4160

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:50	1.7095	100.27%	0.3788	0.0309	-0.5045	0.4013	0.0226	0.0497
2	20:46:48	1.7263	95.65%	0.5922	-0.0113	-0.0826	0.9278	0.0247	0.0271
3	20:47:45	1.7293	93.84%	0.3302	0.0868	0.2475	0.3735	0.0554	0.0445
x		1.7217	96.58%	0.4337	0.0355	-0.1132	0.5675	0.0342	0.0404
σ		0.0106	3.31%	0.1393	0.0492	0.3770	0.3123	0.0184	0.0119
%RSD		0.6179	3.43	32.1272	138.7274	332.9758	55.0336	53.7295	29.3278

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:50	0.0486	94.59%	-0.0010	-0.0010	0.0125	0.0100	0.0042	94.70%
2	20:46:48	0.0183	94.53%	0.0017	0.0001	0.0049	0.0099	0.0062	95.99%
3	20:47:45	0.0447	94.68%	0.0023	-0.0010	0.0221	0.0124	0.0031	96.58%
x		0.0372	94.60%	0.0010	-0.0006	0.0132	0.0108	0.0045	95.76%
σ		0.0165	0.08%	0.0017	0.0006	0.0086	0.0014	0.0016	0.96%
%RSD		44.3712	0.08	176.2450	101.6192	65.3979	12.9186	34.5059	1.00

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:50	0.0170	0.0223	24.6568	25.0295	25.5351	95.22%	0.0051	0.0094
2	20:46:48	0.0136	0.0209	24.1731	24.4344	24.2253	99.13%	0.0091	0.0142
3	20:47:45	0.0190	0.0187	24.3503	24.2843	23.9792	100.50%	0.0058	0.0068
x		0.0165	0.0207	24.3934	24.5827	24.5798	98.28%	0.0066	0.0101
σ		0.0028	0.0018	0.2447	0.3941	0.8364	2.74%	0.0021	0.0038
%RSD		16.6584	8.8330	1.0032	1.6031	3.4026	2.79	31.8420	37.2944

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:45:50	0.0264	0.0294	0.0300
2	20:46:48	0.0217	0.0320	0.0273
3	20:47:45	0.0344	0.0270	0.0309
x		0.0275	0.0295	0.0294
σ		0.0064	0.0025	0.0019
%RSD		23.3191	8.4282	6.4220

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:34	110.44%	0.0159	49.7163	105.34%	0.2554	0.3609	0.4068	38.2059
2	20:51:31	98.71%	0.0109	49.8428	102.68%	0.1894	0.3506	0.5188	36.4904
3	20:52:28	99.95%	0.0127	48.8661	100.87%	0.2245	0.3481	0.4753	37.0662
x		103.03%	0.0132	49.4751	102.96%	0.2231	0.3532	0.4670	37.2541
σ		6.44%	0.0026	0.5312	2.25%	0.0330	0.0068	0.0565	0.8731
%RSD		6.26	19.5655	1.0736	2.18	14.8003	1.9286	12.0925	2.3435

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:34	0.2273	2.4688	5.1575	2.2149	0.5210	0.5457	0.8678	1.5873
2	20:51:31	0.2010	2.4465	4.4138	1.9591	0.5036	0.5298	0.7573	1.6872
3	20:52:28	0.2118	2.3161	3.3191	1.6905	0.5000	0.4761	0.7787	1.6407
x		0.2134	2.4105	4.2968	1.9548	0.5082	0.5172	0.8012	1.6384
σ		0.0132	0.0825	0.9248	0.2623	0.0112	0.0364	0.0586	0.0499
%RSD		6.1966	3.4228	21.5220	13.4160	2.2105	7.0465	7.3140	3.0484

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:34	1.4852	100.14%	0.2569	0.1672	0.4804	0.5331	0.0203	0.0290
2	20:51:31	1.4901	98.25%	0.1583	0.3100	0.0365	0.2659	0.0273	0.0233
3	20:52:28	1.3872	98.33%	0.1252	0.1250	-0.2650	-0.0043	0.0361	0.0375
x		1.4542	98.91%	0.1801	0.2007	0.0840	0.2649	0.0279	0.0299
σ		0.0580	1.07%	0.0685	0.0969	0.3750	0.2687	0.0079	0.0071
%RSD		3.9919	1.08	38.0478	48.2976	446.4746	101.4219	28.4461	23.8519

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:34	0.0186	97.36%	0.0011	-0.0005	0.0072	0.0071	0.0070	97.88%
2	20:51:31	0.0238	97.91%	0.0011	-0.0011	0.0120	0.0121	0.0040	98.20%
3	20:52:28	0.0272	97.26%	0.0022	-0.0016	0.0048	0.0109	0.0081	97.31%
x		0.0232	97.51%	0.0015	-0.0010	0.0080	0.0100	0.0064	97.80%
σ		0.0043	0.35%	0.0006	0.0005	0.0037	0.0026	0.0021	0.45%
%RSD		18.7463	0.36	42.6864	51.7807	45.4352	25.6906	33.0599	0.46

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:34	0.0149	0.0115	21.4650	21.7667	21.5747	96.53%	0.0068	0.0078
2	20:51:31	0.0281	0.0144	21.5513	21.4832	21.1573	100.14%	0.0045	0.0075
3	20:52:28	0.0157	0.0196	21.6586	21.1375	21.4147	100.80%	0.0036	0.0074
x		0.0196	0.0152	21.5583	21.4625	21.3822	99.16%	0.0049	0.0076
σ		0.0074	0.0041	0.0970	0.3151	0.2106	2.30%	0.0016	0.0002
%RSD		37.6597	26.9415	0.4500	1.4682	0.9848	2.32	33.1722	2.9110

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:50:34	0.0249	0.0230	0.0228
2	20:51:31	0.0311	0.0227	0.0262
3	20:52:28	0.0179	0.0269	0.0236
x		0.0247	0.0242	0.0242
σ		0.0066	0.0024	0.0018
%RSD		26.8391	9.8442	7.2615

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:17	105.02%	0.0076	43.8155	104.24%	0.3643	0.4580	0.7199	20.0646
2	20:56:15	96.41%	0.0092	44.3839	97.90%	0.4693	0.4797	0.4485	19.8166
3	20:57:12	90.89%	0.0113	44.5420	95.94%	0.3729	0.4893	0.7618	19.8221
x		97.44%	0.0094	44.2471	99.36%	0.4021	0.4757	0.6434	19.9011
σ		7.12%	0.0018	0.3821	4.34%	0.0583	0.0161	0.1701	0.1416
%RSD		7.31	19.7099	0.8635	4.37	14.4960	3.3749	26.4389	0.7116

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:17	0.1600	1.0888	2.4594	0.6997	1.0308	1.0368	0.7534	1.4099
2	20:56:15	0.1670	0.9895	3.4770	0.6009	1.0287	0.8854	0.6478	1.2331
3	20:57:12	0.1560	1.0832	2.0655	0.6717	1.0350	1.0342	0.7415	1.6249
x		0.1610	1.0538	2.6673	0.6574	1.0315	0.9855	0.7142	1.4226
σ		0.0056	0.0557	0.7284	0.0509	0.0032	0.0867	0.0578	0.1962
%RSD		3.4513	5.2899	27.3075	7.7424	0.3107	8.7956	8.0979	13.7918

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:17	1.3187	95.07%	0.2874	0.2271	-0.0224	0.1286	0.0402	0.0437
2	20:56:15	1.0744	98.16%	0.5087	0.0803	-0.0777	0.8833	0.0372	0.0532
3	20:57:12	1.1733	92.33%	0.2090	0.1384	-0.6594	-0.0161	0.0538	0.0795
x		1.1888	95.19%	0.3350	0.1486	-0.2532	0.3319	0.0437	0.0588
σ		0.1229	2.92%	0.1554	0.0740	0.3528	0.4829	0.0088	0.0185
%RSD		10.3341	3.06	46.3808	49.7792	139.3695	145.4944	20.1822	31.5259

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:17	0.0319	96.50%	0.0017	-0.0005	0.0074	0.0010	0.0031	95.65%
2	20:56:15	0.0359	93.78%	0.0017	-0.0010	0.0025	0.0036	0.0032	95.70%
3	20:57:12	0.0338	94.75%	0.0012	-0.0004	0.0074	-0.0003	0.0001	95.62%
x		0.0339	95.01%	0.0015	-0.0006	0.0058	0.0014	0.0021	95.66%
σ		0.0020	1.38%	0.0003	0.0003	0.0028	0.0020	0.0018	0.04%
%RSD		5.9628	1.45	20.2926	48.9741	49.2937	137.5572	82.5039	0.04

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:17	0.0297	0.0149	17.3019	17.2474	17.4712	96.98%	0.0058	0.0059
2	20:56:15	0.0224	0.0220	17.4826	17.2708	17.1409	99.03%	0.0068	0.0064
3	20:57:12	0.0184	0.0241	17.3089	17.5187	17.2253	99.44%	0.0033	0.0062
x		0.0235	0.0203	17.3645	17.3457	17.2791	98.49%	0.0053	0.0062
σ		0.0057	0.0048	0.1023	0.1503	0.1716	1.32%	0.0018	0.0002
%RSD		24.2905	23.7697	0.5893	0.8665	0.9931	1.34	34.7713	3.8250

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	20:55:17	0.0343	0.0295	0.0345
2	20:56:15	0.0286	0.0320	0.0312
3	20:57:12	0.0324	0.0300	0.0293
x		0.0318	0.0305	0.0316
σ		0.0029	0.0014	0.0026
%RSD		9.1372	4.4486	8.3417

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:11	104.41%	0.0071	44.5712	101.08%	0.4260	0.5152	0.6561	20.7362
2	21:01:08	93.92%	0.0047	43.4618	97.86%	0.4352	0.4823	0.4434	19.4536
3	21:02:05	86.61%	0.0083	45.2816	93.73%	0.3615	0.4438	0.6561	19.5493
x		94.98%	0.0067	44.4382	97.56%	0.4076	0.4804	0.5852	19.9130
σ		8.94%	0.0018	0.9172	3.68%	0.0402	0.0358	0.1228	0.7145
%RSD		9.42	27.1449	2.0639	3.77	9.8579	7.4422	20.9877	3.5879

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:11	0.1983	1.1030	2.4736	0.7219	1.1470	1.0339	0.6360	1.4658
2	21:01:08	0.1894	1.0670	2.7497	0.6119	0.9876	0.9824	0.6589	1.4916
3	21:02:05	0.1709	1.0451	2.4237	0.5619	0.9887	1.0055	0.7662	1.4117
x		0.1862	1.0717	2.5490	0.6319	1.0411	1.0073	0.6870	1.4564
σ		0.0140	0.0292	0.1756	0.0819	0.0917	0.0258	0.0695	0.0408
%RSD		7.5257	2.7253	6.8886	12.9535	8.8058	2.5641	10.1146	2.7990

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:11	1.1929	92.74%	0.3040	0.2353	-0.2540	0.3034	0.0521	0.0535
2	21:01:08	1.1960	95.13%	0.2024	0.2762	-0.2631	0.0229	0.0265	0.0619
3	21:02:05	1.3318	91.49%	0.4125	0.3403	-0.3612	0.6308	0.0423	0.0490
x		1.2402	93.12%	0.3063	0.2840	-0.2928	0.3190	0.0403	0.0548
σ		0.0793	1.85%	0.1051	0.0529	0.0594	0.3042	0.0129	0.0066
%RSD		6.3953	1.98	34.3109	18.6456	20.2971	95.3684	31.9485	11.9983

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:11	0.0328	94.43%	0.0023	-0.0021	0.0000	0.0011	0.0075	92.96%
2	21:01:08	0.0348	94.33%	0.0028	0.0007	0.0025	0.0048	0.0062	95.62%
3	21:02:05	0.0440	91.63%	0.0040	0.0007	0.0000	0.0063	0.0032	94.64%
x		0.0372	93.46%	0.0031	-0.0002	0.0008	0.0041	0.0056	94.41%
σ		0.0060	1.59%	0.0009	0.0016	0.0014	0.0027	0.0022	1.35%
%RSD		16.1454	1.70	29.1003	708.9052	173.2051	65.7828	38.7745	1.43

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:11	0.0149	0.0227	17.7835	18.0214	17.9819	95.54%	0.0046	0.0071
2	21:01:08	0.0256	0.0097	17.0956	16.5864	16.9118	98.86%	0.0064	0.0062
3	21:02:05	0.0194	0.0087	16.7137	16.8440	17.1328	99.16%	0.0059	0.0058
x		0.0200	0.0137	17.1976	17.1506	17.3421	97.86%	0.0057	0.0064
σ		0.0054	0.0078	0.5421	0.7651	0.5649	2.01%	0.0010	0.0006
%RSD		27.0392	56.9438	3.1524	4.4609	3.2575	2.05	16.8085	9.6662

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:00:11	0.0318	0.0361	0.0330
2	21:01:08	0.0296	0.0282	0.0302
3	21:02:05	0.0237	0.0281	0.0291
x		0.0284	0.0308	0.0308
σ		0.0042	0.0046	0.0020
%RSD		14.9137	14.8218	6.5618

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:56	100.92%	0.0004	0.5085	100.83%	0.0221	0.1280	0.0002	-0.0023
2	21:05:54	91.59%	0.0007	0.5129	95.65%	0.0351	0.0861	-0.0836	0.0010
3	21:06:51	89.51%	0.0008	0.5130	92.27%	0.0366	0.1063	-0.0996	0.0063
x		94.01%	0.0006	0.5115	96.25%	0.0313	0.1068	-0.0610	0.0017
σ		6.08%	0.0002	0.0026	4.31%	0.0080	0.0209	0.0536	0.0044
%RSD		6.47	33.8858	0.5003	4.48	25.4257	19.5968	87.8519	259.2946

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:56	-0.0043	0.0015	0.1581	-0.3609	-0.0310	-0.0145	-0.0388	0.0782
2	21:05:54	-0.0047	0.0017	-0.1594	-0.4566	-0.0302	-0.0160	-0.0530	0.0322
3	21:06:51	-0.0037	0.0040	0.1502	-0.4544	-0.0263	-0.0199	-0.0333	0.0491
x		-0.0042	0.0024	0.0496	-0.4239	-0.0291	-0.0168	-0.0417	0.0532
σ		0.0005	0.0014	0.1811	0.0546	0.0025	0.0027	0.0102	0.0233
%RSD		11.8142	59.3789	365.0599	12.8872	8.6013	16.3694	24.4438	43.8112

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:56	-0.0217	98.36%	0.1428	-0.1066	0.1990	0.4681	0.0029	0.0037
2	21:05:54	-0.0040	95.03%	0.0924	0.0367	0.0869	0.3714	0.0155	0.0010
3	21:06:51	0.0034	95.93%	-0.0515	0.1775	-0.1900	-0.0088	0.0066	0.0010
x		-0.0074	96.44%	0.0613	0.0359	0.0319	0.2769	0.0083	0.0019
σ		0.0129	1.73%	0.1008	0.1420	0.2002	0.2521	0.0065	0.0015
%RSD		172.8835	1.79	164.5975	395.9973	626.7787	91.0578	77.9859	80.1200

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:56	-0.0038	99.06%	0.0011	-0.0005	0.0000	-0.0016	-0.0009	98.59%
2	21:05:54	0.0028	95.94%	0.0001	-0.0010	0.0000	-0.0003	-0.0009	97.39%
3	21:06:51	0.0006	96.28%	0.0006	-0.0021	0.0000	0.0010	-0.0009	96.26%
x		-0.0001	97.09%	0.0006	-0.0012	0.0000	-0.0003	-0.0009	97.42%
σ		0.0033	1.71%	0.0005	0.0008	0.0000	0.0013	0.0000	1.16%
%RSD		2535.6789	1.76	87.2263	66.5379	0.0000	405.3292	1.2996	1.20

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:56	-0.0008	-0.0016	0.0001	0.0021	-0.0014	97.57%	-0.0060	-0.0037
2	21:05:54	0.0008	-0.0006	0.0036	0.0020	0.0011	100.32%	-0.0034	-0.0023
3	21:06:51	-0.0008	-0.0006	0.0037	0.0061	0.0058	99.23%	-0.0047	-0.0038
x		-0.0002	-0.0009	0.0025	0.0034	0.0018	99.04%	-0.0047	-0.0033
σ		0.0009	0.0006	0.0021	0.0024	0.0036	1.38%	0.0013	0.0008
%RSD		365.9000	61.8637	84.6696	69.2184	197.3126	1.40	27.7503	24.4215

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:04:56	-0.0027	-0.0017	-0.0018
2	21:05:54	-0.0023	-0.0017	-0.0020
3	21:06:51	-0.0028	-0.0017	-0.0023
x		-0.0026	-0.0017	-0.0021
σ		0.0003	0.0000	0.0002
%RSD		9.9596	2.1332	10.8297

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:41	102.48%	19.8951	20.3219	100.72%	19.9910	20.1625	20.5118	20.7316
2	21:10:38	93.95%	19.5502	20.5008	96.36%	20.3410	20.3084	20.5690	20.6861
3	21:11:36	91.93%	19.2720	19.9788	95.66%	18.9256	19.0546	18.8212	19.6272
x		96.12%	19.5724	20.2672	97.58%	19.7525	19.8418	19.9673	20.3483
σ		5.60%	0.3122	0.2653	2.74%	0.7372	0.6857	0.9930	0.6249
%RSD		5.83	1.5949	1.3090	2.81	3.7323	3.4556	4.9730	3.0709

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:41	20.3771	20.1701	18.5919	20.3519	20.2410	19.9648	20.1414	19.6448
2	21:10:38	20.4611	20.4141	19.0497	19.6803	20.7022	20.5629	20.5338	20.4696
3	21:11:36	19.1357	18.7000	19.8113	18.2826	19.1134	19.1178	19.1951	18.0101
x		19.9913	19.7614	19.1510	19.4383	20.0189	19.8818	19.9567	19.3748
σ		0.7422	0.9273	0.6159	1.0557	0.8174	0.7261	0.6882	1.2518
%RSD		3.7124	4.6923	3.2163	5.4308	4.0829	3.6523	3.4483	6.4608

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:41	20.7495	98.16%	20.8026	18.6676	21.0134	21.6723	20.1887	20.0176
2	21:10:38	20.1013	94.37%	20.2795	21.4685	19.1621	21.5828	20.3136	20.1166
3	21:11:36	19.2695	98.56%	18.6475	18.4065	18.9207	19.5945	19.4373	19.8595
x		20.0401	97.03%	19.9099	19.5142	19.6988	20.9499	19.9799	19.9979
σ		0.7419	2.32%	1.1241	1.6975	1.1449	1.1747	0.4740	0.1297
%RSD		3.7020	2.39	5.6458	8.6987	5.8122	5.6070	2.3724	0.6484

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:41	19.8648	98.80%	20.2538	20.3793	19.9941	19.9280	19.8675	99.71%
2	21:10:38	20.0994	97.84%	20.3262	20.0675	20.2812	20.1112	20.2079	97.08%
3	21:11:36	19.6525	97.89%	19.4293	19.4039	19.2752	19.3959	19.4734	99.45%
x		19.8722	98.17%	20.0031	19.9502	19.8502	19.8117	19.8496	98.75%
σ		0.2236	0.54%	0.4982	0.4982	0.5182	0.3716	0.3675	1.45%
%RSD		1.1249	0.55	2.4908	2.4971	2.6104	1.8756	1.8517	1.47

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:41	19.7319	19.4899	20.4434	19.9265	19.8779	99.13%	20.5041	20.4127
2	21:10:38	20.1718	19.9800	20.4290	20.3304	20.2657	99.24%	20.7812	20.9187
3	21:11:36	19.0639	19.4141	19.4196	19.6527	19.3145	102.87%	20.1892	20.0571
x		19.6558	19.6280	20.0973	19.9698	19.8194	100.41%	20.4915	20.4629
σ		0.5579	0.3072	0.5870	0.3409	0.4783	2.13%	0.2962	0.4330
%RSD		2.8381	1.5649	2.9206	1.7072	2.4134	2.12	1.4456	2.1159

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:09:41	19.8576	19.8457	19.8511
2	21:10:38	20.4033	20.2817	20.2833
3	21:11:36	19.4026	19.6108	19.4635
x		19.8878	19.9127	19.8660
σ		0.5010	0.3405	0.4101
%RSD		2.5193	1.7098	2.0645

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:13	109.10%	0.0089	156.0464	120.73%	1.2072	0.1974	0.1396	463.4982
2	21:16:10	94.62%	0.0107	157.3502	107.29%	1.2515	0.2522	0.2278	475.9701
3	21:17:07	92.07%	0.0131	154.2513	105.34%	1.2415	0.2135	0.1301	467.6268
x		98.60%	0.0109	155.8826	111.12%	1.2334	0.2210	0.1658	469.0317
σ		9.19%	0.0021	1.5559	8.38%	0.0232	0.0282	0.0539	6.3535
%RSD		9.32	19.4074	0.9982	7.55	1.8814	12.7547	32.4807	1.3546

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:13	1.5494	0.6073	5.2325	0.2328	1.7662	1.8294	1.7800	1.8451
2	21:16:10	1.5323	0.5358	3.9045	0.0190	1.7271	1.6924	1.8968	2.0002
3	21:17:07	1.4726	0.5864	4.4902	0.0560	1.7156	1.8286	2.0154	1.9244
x		1.5181	0.5765	4.5424	0.1026	1.7363	1.7835	1.8974	1.9232
σ		0.0403	0.0367	0.6655	0.1143	0.0265	0.0789	0.1177	0.0776
%RSD		2.6544	6.3744	14.6519	111.3677	1.5278	4.4222	6.2052	4.0347

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:13	2.0657	100.03%	0.1346	0.3041	-0.0909	-0.0346	0.4859	0.4666
2	21:16:10	1.9034	93.12%	0.3186	0.3805	0.2867	0.8704	0.4329	0.4615
3	21:17:07	2.1245	93.76%	0.2405	0.1353	-0.0076	0.3376	0.4139	0.3573
x		2.0312	95.64%	0.2312	0.2733	0.0627	0.3911	0.4442	0.4284
σ		0.1145	3.82%	0.0923	0.1254	0.1984	0.4548	0.0373	0.0617
%RSD		5.6376	4.00	39.9377	45.9007	316.2383	116.2852	8.3958	14.4003

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:13	0.4602	97.79%	0.0016	0.0022	0.0194	0.0159	0.0171	97.23%
2	21:16:10	0.4498	94.15%	0.0039	0.0024	0.0050	0.0177	0.0186	95.05%
3	21:17:07	0.4294	94.73%	0.0028	0.0045	0.0270	0.0276	0.0172	96.60%
x		0.4465	95.56%	0.0028	0.0030	0.0171	0.0204	0.0176	96.30%
σ		0.0157	1.96%	0.0011	0.0013	0.0112	0.0063	0.0008	1.12%
%RSD		3.5126	2.05	41.2437	42.5351	65.3767	30.7249	4.6208	1.16

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:13	0.0521	0.0339	4.9477	4.9514	4.9646	97.36%	0.0084	0.0142
2	21:16:10	0.0378	0.0459	4.8933	5.0819	4.8805	98.39%	0.0114	0.0149
3	21:17:07	0.0555	0.0473	4.9724	4.9315	4.9941	98.46%	0.0114	0.0121
x		0.0485	0.0424	4.9378	4.9883	4.9464	98.07%	0.0104	0.0137
σ		0.0094	0.0074	0.0404	0.0817	0.0590	0.61%	0.0017	0.0014
%RSD		19.3302	17.3951	0.8191	1.6373	1.1921	0.63	16.3985	10.4061

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:15:13	0.0835	0.0987	0.0907
2	21:16:10	0.0840	0.1009	0.0959
3	21:17:07	0.0879	0.1171	0.1016
x		0.0851	0.1055	0.0961
σ		0.0024	0.0101	0.0054
%RSD		2.8411	9.5440	5.6589

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:54	102.98%	0.0046	147.5874	114.36%	1.2341	0.2721	0.1054	472.1014
2	21:20:52	92.66%	0.0048	148.7952	107.97%	1.2391	0.2522	0.1429	468.1700
3	21:21:49	91.02%	0.0077	145.1389	107.85%	1.1759	0.2847	0.1734	457.5597
x		95.55%	0.0057	147.1738	110.06%	1.2164	0.2697	0.1405	465.9437
σ		6.48%	0.0017	1.8629	3.72%	0.0352	0.0164	0.0341	7.5221
%RSD		6.79	30.2725	1.2658	3.38	2.8908	6.0736	24.2391	1.6144

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:54	1.5385	0.6628	5.4237	0.0590	1.7888	1.8124	1.6352	1.9790
2	21:20:52	1.5520	0.6018	4.4512	0.0347	1.7623	1.8623	1.9270	1.8830
3	21:21:49	1.4855	0.5415	3.8720	-0.0444	1.7593	1.6633	1.7620	1.8741
x		1.5253	0.6020	4.5823	0.0165	1.7701	1.7793	1.7747	1.9120
σ		0.0351	0.0607	0.7841	0.0541	0.0162	0.1035	0.1464	0.0582
%RSD		2.3029	10.0761	17.1110	328.5663	0.9172	5.8175	8.2466	3.0414

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:54	1.9890	98.71%	0.1737	0.2629	0.2045	0.3340	0.3523	0.3019
2	21:20:52	2.0983	95.69%	0.2394	0.5101	-0.0809	0.7849	0.3411	0.2913
3	21:21:49	2.0233	96.22%	0.2324	0.0829	-0.1126	0.1982	0.3503	0.3180
x		2.0368	96.87%	0.2152	0.2853	0.0036	0.4390	0.3479	0.3037
σ		0.0559	1.62%	0.0361	0.2145	0.1747	0.3071	0.0060	0.0135
%RSD		2.7445	1.67	16.7830	75.1693	4790.9688	69.9521	1.7117	4.4293

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:54	0.3263	97.06%	0.0016	0.0011	0.0217	0.0084	0.0189	98.20%
2	21:20:52	0.3290	96.34%	0.0033	-0.0021	0.0121	0.0171	0.0249	98.24%
3	21:21:49	0.3389	94.76%	0.0012	0.0023	0.0244	0.0223	0.0221	97.60%
x		0.3314	96.05%	0.0020	0.0004	0.0194	0.0159	0.0219	98.01%
σ		0.0066	1.18%	0.0011	0.0023	0.0065	0.0070	0.0030	0.36%
%RSD		1.9946	1.23	54.5271	533.2454	33.3899	44.2520	13.5944	0.36

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:54	0.0352	0.0366	4.9242	5.0648	4.9467	98.09%	0.0061	0.0098
2	21:20:52	0.0358	0.0485	4.9208	4.8727	4.8210	100.83%	0.0049	0.0101
3	21:21:49	0.0368	0.0357	5.1763	4.9719	4.8480	100.41%	0.0067	0.0068
x		0.0359	0.0402	5.0071	4.9698	4.8719	99.77%	0.0059	0.0089
σ		0.0008	0.0071	0.1466	0.0960	0.0662	1.48%	0.0009	0.0018
%RSD		2.3564	17.7309	2.9274	1.9324	1.3584	1.48	15.6379	20.7757

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:19:54	0.0809	0.0959	0.0897
2	21:20:52	0.0800	0.1009	0.0910
3	21:21:49	0.0861	0.1128	0.0990
x		0.0823	0.1032	0.0932
σ		0.0033	0.0087	0.0050
%RSD		4.0398	8.4111	5.3866

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:37	95.44%	0.0026	32.3471	98.60%	0.2910	0.0777	-0.0445	96.5413
2	21:25:34	93.45%	-0.0008	32.1522	101.59%	0.2882	0.0572	-0.0225	93.7325
3	21:26:31	89.62%	0.0022	32.3143	95.19%	0.2846	0.0637	-0.0556	97.9814
x		92.84%	0.0013	32.2712	98.46%	0.2879	0.0662	-0.0409	96.0851
σ		2.96%	0.0018	0.1044	3.20%	0.0032	0.0105	0.0168	2.1609
%RSD		3.19	136.0603	0.3234	3.25	1.1165	15.8402	41.1655	2.2489

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:37	0.3184	0.1412	1.1195	-0.3406	0.3192	0.3809	0.7499	0.6604
2	21:25:34	0.3342	0.1302	1.2217	-0.4012	0.3226	0.3308	0.7690	0.7048
3	21:26:31	0.3176	0.1540	0.9948	-0.3475	0.3153	0.3313	0.9001	0.8120
x		0.3234	0.1418	1.1120	-0.3631	0.3190	0.3476	0.8063	0.7257
σ		0.0093	0.0119	0.1137	0.0332	0.0037	0.0288	0.0817	0.0780
%RSD		2.8873	8.4250	10.2229	9.1363	1.1510	8.2784	10.1364	10.7416

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:37	0.8097	98.68%	0.0026	0.1240	-0.3353	-0.0029	0.0653	0.0790
2	21:25:34	0.7063	96.50%	0.0135	0.0813	-0.3313	-0.1093	0.0919	0.0738
3	21:26:31	0.8243	96.85%	0.0976	0.2692	-0.3877	0.4383	0.0754	0.1061
x		0.7801	97.35%	0.0379	0.1581	-0.3514	0.1087	0.0775	0.0863
σ		0.0643	1.17%	0.0520	0.0985	0.0315	0.2903	0.0134	0.0173
%RSD		8.2432	1.20	137.0193	62.2898	8.9511	267.0986	17.3172	20.0427

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:37	0.0714	98.08%	0.0006	-0.0010	0.0000	0.0022	0.0020	97.70%
2	21:25:34	0.0675	97.98%	0.0011	-0.0005	0.0000	0.0071	0.0010	98.47%
3	21:26:31	0.0534	96.33%	-0.0015	0.0000	0.0024	0.0009	0.0040	98.68%
x		0.0641	97.46%	0.0000	-0.0005	0.0008	0.0034	0.0024	98.28%
σ		0.0095	0.98%	0.0014	0.0005	0.0014	0.0033	0.0015	0.52%
%RSD		14.7657	1.01	3989.0438	108.1754	173.2051	96.8009	63.8771	0.53

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:37	0.0079	0.0085	1.0317	0.9334	1.0071	98.75%	-0.0016	-0.0023
2	21:25:34	0.0132	0.0064	0.9777	0.9623	0.9669	102.79%	-0.0013	-0.0005
3	21:26:31	0.0101	0.0103	0.9549	0.9899	0.9841	102.90%	-0.0026	-0.0019
x		0.0104	0.0084	0.9881	0.9619	0.9860	101.48%	-0.0018	-0.0016
σ		0.0027	0.0020	0.0394	0.0283	0.0202	2.36%	0.0007	0.0009
%RSD		25.8486	23.6753	3.9904	2.9419	2.0457	2.33	37.4091	59.0768

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:24:37	0.0174	0.0224	0.0204
2	21:25:34.	0.0123	0.0182	0.0169
3	21:26:31	0.0165	0.0188	0.0167
x		0.0154	0.0198	0.0180
σ		0.0027	0.0023	0.0021
%RSD		17.7530	11.3973	11.6144

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:20	95.55%	25.0324	25.6783	95.64%	25.5781	25.0560	25.7037	26.0850
2	21:30:17	90.91%	24.2807	25.8102	94.80%	25.3510	24.9736	24.6546	25.4087
3	21:31:15	85.26%	23.6490	24.9837	90.37%	24.6892	24.8470	25.1382	25.3689
x		90.57%	24.3207	25.4907	93.60%	25.2061	24.9589	25.1655	25.6209
σ		5.15%	0.6926	0.4440	2.83%	0.4618	0.1053	0.5251	0.4025
%RSD		5.69	2.8477	1.7419	3.02	1.8322	0.4217	2.0865	1.5708

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:20	25.7105	25.7811	26.9156	24.5879	25.2049	25.6424	24.9621	25.0227
2	21:30:17	25.2153	25.1236	25.1575	24.7075	25.3292	24.9928	24.9417	24.8771
3	21:31:15	24.9315	24.3337	22.9604	24.5318	24.7199	23.9899	24.6858	23.1198
x		25.2858	25.0795	25.0112	24.6091	25.0847	24.8750	24.8632	24.3399
σ		0.3943	0.7247	1.9816	0.0897	0.3220	0.8325	0.1540	1.0591
%RSD		1.5592	2.8897	7.9230	0.3646	1.2836	3.3468	0.6194	4.3514

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:20	25.7327	95.68%	25.8303	25.6924	27.1154	27.4819	25.3501	25.7403
2	21:30:17	24.8459	94.47%	24.6524	25.0925	24.9322	25.7094	25.2013	25.4986
3	21:31:15	25.1564	93.05%	23.7698	25.3487	24.7732	23.9318	24.3859	25.0624
x		25.2450	94.40%	24.7509	25.3779	25.6069	25.7077	24.9791	25.4338
σ		0.4500	1.32%	1.0337	0.3010	1.3088	1.7751	0.5191	0.3436
%RSD		1.7825	1.40	4.1766	1.1862	5.1112	6.9048	2.0781	1.3508

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:20	25.1461	95.53%	25.9359	25.9091	25.7595	25.1722	25.9446	95.25%
2	21:30:17	25.5064	97.61%	25.2826	25.1655	24.3734	25.1568	24.8473	98.12%
3	21:31:15	24.9336	96.81%	24.6511	24.5402	25.1121	24.7084	24.3864	97.36%
x		25.1953	96.65%	25.2899	25.2049	25.0817	25.0125	25.0594	96.91%
σ		0.2895	1.05%	0.6425	0.6853	0.6936	0.2634	0.8005	1.49%
%RSD		1.1492	1.08	2.5404	2.7190	2.7653	1.0531	3.1944	1.53

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:20	25.6055	25.4068	26.1131	25.8617	25.7642	96.40%	25.8459	25.7440
2	21:30:17	24.8818	24.6826	24.8450	24.2245	24.7543	100.60%	25.2208	25.1290
3	21:31:15	24.7208	24.5641	25.2922	24.3685	24.6880	100.43%	25.3802	25.3341
x		25.0694	24.8845	25.4168	24.8182	25.0688	99.15%	25.4823	25.4024
σ		0.4712	0.4562	0.6432	0.9065	0.6031	2.38%	0.3248	0.3131
%RSD		1.8796	1.8331	2.5305	3.6526	2.4059	2.40	1.2748	1.2327

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:29:20	25.5881	26.0347	25.7566
2	21:30:17	25.0684	25.1762	25.0345
3	21:31:15	25.2397	25.0374	25.1054
x		25.2987	25.4161	25.2988
σ		0.2649	0.5402	0.3980
%RSD		1.0469	2.1254	1.5732

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:25	110.40%	-0.0016	-0.0101	106.91%	0.0067	0.0394	-0.0970	-0.0040
2	21:39:22	99.27%	-0.0015	-0.0113	99.40%	0.0228	0.0348	-0.1446	0.0016
3	21:40:20	92.20%	-0.0014	-0.0020	96.81%	0.0034	0.0313	-0.1031	-0.0020
x		100.62%	-0.0015	-0.0078	101.04%	0.0110	0.0352	-0.1149	-0.0015
σ		9.17%	0.0001	0.0050	5.25%	0.0104	0.0041	0.0259	0.0029
%RSD		9.12	7.3256	64.7577	5.19	94.4175	11.5330	22.5194	194.7674

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:25	-0.0017	0.0013	0.0886	-0.3574	-0.0300	-0.0131	-0.0201	0.0574
2	21:39:22	-0.0029	0.0037	0.0706	-0.4216	-0.0291	-0.0127	-0.0306	0.0617
3	21:40:20	-0.0042	0.0039	0.1577	-0.4284	-0.0314	-0.0143	-0.0122	0.1154
x		-0.0029	0.0030	0.1056	-0.4025	-0.0302	-0.0133	-0.0209	0.0781
σ		0.0013	0.0014	0.0460	0.0392	0.0011	0.0008	0.0092	0.0323
%RSD		42.9865	48.4736	43.5541	9.7317	3.7777	6.2212	44.0934	41.3894

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:25	-0.0162	101.16%	-0.0974	0.0281	-0.1266	-0.2907	0.0514	0.0683
2	21:39:22	-0.0067	98.59%	0.0230	0.0309	0.0600	0.1328	0.0770	0.0767
3	21:40:20	-0.0244	96.64%	-0.0253	0.0339	0.0413	-0.0395	0.0844	0.1012
x		-0.0157	98.80%	-0.0333	0.0310	-0.0084	-0.0658	0.0709	0.0821
σ		0.0088	2.27%	0.0606	0.0029	0.1027	0.2130	0.0173	0.0171
%RSD		56.0079	2.30	182.2256	9.4042	1218.6355	323.5857	24.3725	20.7913

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:25	0.0668	101.54%	0.0046	0.0015	0.0000	-0.0028	0.0010	100.86%
2	21:39:22	0.0742	101.79%	0.0025	0.0005	0.0000	0.0008	0.0000	100.34%
3	21:40:20	0.0712	98.79%	0.0031	0.0043	0.0000	-0.0004	0.0000	99.93%
x		0.0707	100.71%	0.0034	0.0021	0.0000	-0.0008	0.0003	100.38%
σ		0.0037	1.67%	0.0010	0.0020	0.0000	0.0018	0.0005	0.47%
%RSD		5.2143	1.65	30.6361	93.8684	0.0000	229.8925	169.1427	0.47

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:25	0.0030	0.0013	-0.0001	-0.0039	0.0010	98.56%	0.0007	0.0041
2	21:39:22	0.0030	0.0013	0.0034	0.0078	0.0028	100.91%	0.0022	0.0069
3	21:40:20	0.0015	0.0003	-0.0036	0.0097	0.0022	102.55%	0.0064	0.0039
x		0.0025	0.0010	-0.0001	0.0045	0.0020	100.67%	0.0031	0.0049
σ		0.0009	0.0006	0.0035	0.0074	0.0009	2.01%	0.0029	0.0017
%RSD		34.5507	56.6888	3559.6578	163.6535	45.1918	1.99	94.9110	33.8886

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	21:38:25	-0.0008	-0.0004	-0.0012
2	21:39:22	-0.0004	0.0002	0.0000
3	21:40:20	0.0010	-0.0018	-0.0002
x		-0.0001	-0.0007	-0.0004
σ		0.0009	0.0010	0.0007
%RSD		1437.6312	149.5370	149.4957

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:08	112.54%	-0.0005	0.3582	115.77%	0.0463	0.1352	-0.1772	-0.0002
2	22:19:06	105.22%	-0.0022	0.3643	112.14%	0.0419	0.1087	-0.2144	0.0598
3	22:20:03	101.76%	0.0016	0.3380	105.44%	0.0659	0.1141	-0.2578	0.0430
x		106.51%	-0.0004	0.3535	111.12%	0.0514	0.1193	-0.2165	0.0342
σ		5.50%	0.0019	0.0138	5.24%	0.0128	0.0140	0.0404	0.0310
%RSD		5.17	513.5692	3.8927	4.71	24.8624	11.7289	18.6478	90.5849

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:08	-0.0053	0.0067	0.3779	-0.3789	-0.0360	-0.0192	-0.0598	-0.0424
2	22:19:06	-0.0053	-0.0010	0.6791	-0.4374	-0.0349	-0.0108	-0.0491	0.0025
3	22:20:03	-0.0048	0.0073	0.2424	-0.3753	-0.0318	-0.0171	-0.0073	0.0350
x		-0.0051	0.0043	0.4331	-0.3972	-0.0342	-0.0157	-0.0387	-0.0016
σ		0.0003	0.0046	0.2235	0.0349	0.0022	0.0044	0.0277	0.0389
%RSD		5.2906	105.9744	51.6098	8.7807	6.3788	27.8119	71.5510	2394.6778

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:08	-0.0387	113.01%	0.1308	0.1357	-0.3910	0.5868	0.1539	0.1684
2	22:19:06	0.0020	110.87%	0.0811	0.0575	-0.3762	0.3821	0.1071	0.1221
3	22:20:03	0.0075	108.52%	0.0816	-0.0646	0.1208	0.2633	0.0834	0.1131
x		-0.0097	110.80%	0.0978	0.0429	-0.2155	0.4108	0.1148	0.1345
σ		0.0253	2.25%	0.0286	0.1009	0.2913	0.1636	0.0359	0.0297
%RSD		259.7735	2.03	29.2044	235.3109	135.1774	39.8370	31.2805	22.0563

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:08	0.1215	110.57%	-0.0011	-0.0003	0.0000	0.0016	-0.0002	109.81%
2	22:19:06	0.1239	110.43%	0.0013	-0.0012	0.0021	0.0005	0.0007	109.52%
3	22:20:03	0.0930	106.95%	-0.0001	0.0003	0.0000	-0.0006	0.0007	109.27%
x		0.1128	109.32%	0.0000	-0.0004	0.0007	0.0005	0.0004	109.53%
σ		0.0172	2.05%	0.0012	0.0008	0.0012	0.0011	0.0005	0.27%
%RSD		15.2415	1.87	4157.1185	185.6013	173.2051	217.0361	119.3691	0.25

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:18:08	0.0027	-0.0007	-0.0006	0.0015	0.0001	105.53%	-0.0065	-0.0049
2	22:19:06	0.0034	0.0074	0.0122	0.0104	0.0078	108.65%	-0.0045	-0.0036
3	22:20:03	0.0062	0.0047	-0.0039	0.0086	0.0039	109.06%	-0.0045	-0.0046
x		0.0041	0.0038	0.0026	0.0069	0.0039	107.75%	-0.0051	-0.0044
σ		0.0019	0.0041	0.0085	0.0047	0.0038	1.93%	0.0012	0.0007
%RSD		44.9406	109.0279	330.4886	68.8799	97.8076	1.79	22.5123	15.3020

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:18:08	-0.0033	-0.0031	-0.0028
2	22:19:06	-0.0025	-0.0019	-0.0019
3	22:20:03	-0.0043	-0.0025	-0.0028
x		-0.0034	-0.0025	-0.0025
σ		0.0009	0.0006	0.0005
%RSD		26.6246	22.8301	21.9438

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:53	101.62%	21.4331	21.9882	101.99%	21.2530	21.3315	21.6164	21.6349
2	22:23:50	94.36%	20.0640	20.7858	96.28%	20.8325	20.9386	20.4930	21.2331
3	22:24:48	86.02%	20.8299	21.4145	94.17%	20.3872	20.4933	20.2356	20.5428
x		94.00%	20.7757	21.3962	97.48%	20.8242	20.9211	20.7817	21.1369
σ		7.81%	0.6862	0.6014	4.05%	0.4329	0.4194	0.7343	0.5524
%RSD		8.31	3.3027	2.8109	4.15	2.0790	2.0047	3.5332	2.6133

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:53	21.4874	21.5928	19.6092	21.4856	21.5200	21.1163	21.1358	20.7498
2	22:23:50	20.6599	20.2590	20.5540	20.5371	21.0999	20.6734	20.5584	20.1141
3	22:24:48	20.2439	20.1093	20.5340	19.6189	19.9758	19.9855	19.8582	20.3435
x		20.7971	20.6537	20.2324	20.5472	20.8652	20.5917	20.5175	20.4025
σ		0.6330	0.8167	0.5398	0.9334	0.7984	0.5698	0.6398	0.3219
%RSD		3.0437	3.9545	2.6680	4.5426	3.8263	2.7671	3.1182	1.5779

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:53	20.7089	98.28%	20.9104	21.7661	21.6082	20.8728	21.6269	21.3584
2	22:23:50	20.5972	97.31%	20.4680	20.2093	20.6255	20.2239	20.7339	21.6067
3	22:24:48	20.4001	97.08%	19.9392	20.1152	19.8386	20.1986	20.7386	21.4761
x		20.5687	97.55%	20.4392	20.6969	20.6908	20.4318	21.0331	21.4804
σ		0.1564	0.64%	0.4862	0.9272	0.8866	0.3822	0.5142	0.1242
%RSD		0.7603	0.65	2.3787	4.4799	4.2850	1.8705	2.4446	0.5782

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:53	20.9510	99.39%	21.0902	20.9222	21.6404	21.1913	21.0931	99.41%
2	22:23:50	20.9014	98.51%	20.5743	20.2628	20.8050	20.3849	20.7113	98.48%
3	22:24:48	20.9791	95.93%	20.7352	20.2606	20.7549	20.5908	20.4470	98.22%
x		20.9438	97.94%	20.7999	20.4819	21.0668	20.7223	20.7505	98.70%
σ		0.0394	1.79%	0.2640	0.3813	0.4974	0.4190	0.3248	0.63%
%RSD		0.1879	1.83	1.2691	1.8619	2.3611	2.0219	1.5652	0.64

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:53	20.8494	20.9663	21.1540	21.1749	21.3364	97.53%	21.5273	21.3835
2	22:23:50	20.1903	20.3275	20.4508	20.5665	20.4596	100.11%	21.0144	20.9667
3	22:24:48	20.5491	20.4444	20.5301	20.7109	20.4914	100.17%	21.3521	21.0720
x		20.5296	20.5794	20.7116	20.8174	20.7625	99.27%	21.2980	21.1408
σ		0.3300	0.3401	0.3851	0.3178	0.4973	1.51%	0.2607	0.2167
%RSD		1.6075	1.6526	1.8595	1.5268	2.3951	1.52	1.2241	1.0250

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:22:53	21.0301	21.2685	21.1617
2	22:23:50	20.6466	20.5085	20.5587
3	22:24:48	20.7043	20.7357	20.7106
x		20.7937	20.8376	20.8103
σ		0.2068	0.3902	0.3136
%RSD		0.9944	1.8724	1.5071

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:16	104.63%	0.0027	15.2930	104.41%	0.7488	0.1948	0.8092	1505.3062
2	22:29:13	95.62%	0.0073	15.9322	101.84%	0.7258	0.2002	0.7833	1470.5102
3	22:30:11	90.10%	0.0100	15.8444	99.36%	0.6964	0.2117	0.9472	1460.3129
x		96.78%	0.0067	15.6899	101.87%	0.7236	0.2022	0.8466	1478.7098
σ		7.33%	0.0037	0.3465	2.53%	0.0263	0.0086	0.0881	23.5908
%RSD		7.57	54.9562	2.2082	2.48	3.6295	4.2671	10.4031	1.5954

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:16	3.2198	4.1099	45.0022	3.4257	1.4642	1.1646	575.8817	535.3954
2	22:29:13	3.1246	4.0311	39.4170	3.3824	1.3758	1.1211	553.7959	508.6951
3	22:30:11	3.1089	3.8889	35.1817	3.3855	1.3774	0.9945	540.5984	502.9386
x		3.1511	4.0100	39.8670	3.3979	1.4058	1.0934	556.7586	515.6764
σ		0.0600	0.1120	4.9257	0.0241	0.0506	0.0883	17.8273	17.3180
%RSD		1.9044	2.7928	12.3553	0.7097	3.5998	8.0791	3.2020	3.3583

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:16	571.4093	87.36%	4.0745	1.0439	0.3394	2.3373	1.2914	1.3929
2	22:29:13	547.6022	88.22%	4.2227	0.9289	0.4351	2.0128	1.3069	1.1969
3	22:30:11	541.7454	89.44%	4.1110	0.8152	0.0787	1.9974	1.1977	1.1476
x		553.5856	88.34%	4.1361	0.9294	0.2844	2.1158	1.2653	1.2458
σ		15.7111	1.05%	0.0773	0.1143	0.1845	0.1919	0.0591	0.1297
%RSD		2.8381	1.18	1.8678	12.3039	64.8526	9.0710	4.6701	10.4138

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:16	1.2199	84.95%	0.0057	0.0090	108.8155	107.9639	106.6741	88.16%
2	22:29:13	1.2547	85.91%	0.0103	0.0051	103.8258	103.8366	103.0318	90.85%
3	22:30:11	1.2100	85.80%	0.0097	0.0051	104.5643	104.6566	104.0259	90.70%
x		1.2282	85.56%	0.0085	0.0064	105.7352	105.4857	104.5773	89.91%
σ		0.0235	0.53%	0.0025	0.0022	2.6930	2.1850	1.8827	1.51%
%RSD		1.9105	0.61	29.3543	34.4903	2.5470	2.0714	1.8003	1.68

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:16	0.1301	0.1265	124.6304	122.9176	123.4742	91.72%	0.0132	0.0137
2	22:29:13	0.1092	0.0987	121.2868	119.2631	120.3386	95.96%	0.0142	0.0087
3	22:30:11	0.1128	0.1043	120.2897	118.0625	119.7723	95.70%	0.0078	0.0089
x		0.1174	0.1098	122.0690	120.0811	121.1950	94.46%	0.0117	0.0104
σ		0.0112	0.0147	2.2736	2.5288	1.9940	2.37%	0.0034	0.0028
%RSD		9.5020	13.3715	1.8626	2.1059	1.6453	2.51	29.3186	27.0705

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:28:16	0.4607	0.5170	0.4740
2	22:29:13	0.4690	0.4873	0.4889
3	22:30:11	0.4622	0.4873	0.4861
x		0.4640	0.4972	0.4830
σ		0.0044	0.0172	0.0079
%RSD		0.9527	3.4508	1.6397

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:01	115.40%	24.5827	25.6554	112.68%	25.7352	25.7650	25.8084	25.2381
2	22:33:59	103.16%	25.1380	25.5068	108.93%	24.3731	24.1043	24.2040	25.2159
3	22:34:56	99.32%	24.5002	25.5781	105.05%	24.2702	24.1664	24.2759	25.3030
x		105.96%	24.7403	25.5801	108.89%	24.7928	24.6786	24.7628	25.2523
σ		8.39%	0.3469	0.0743	3.82%	0.8177	0.9414	0.9062	0.0453
%RSD		7.92	1.4021	0.2904	3.50	3.2983	3.8146	3.6596	0.1792

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:01	25.7909	25.6951	24.3488	25.2156	25.1055	25.0873	24.8137	24.7192
2	22:33:59	24.9491	24.8152	25.3748	24.5276	24.5546	24.5731	24.5204	23.5778
3	22:34:56	24.6902	24.3581	26.7695	24.0653	24.5628	24.9343	24.2796	22.9648
x		25.1434	24.9561	25.4977	24.6028	24.7410	24.8649	24.5379	23.7539
σ		0.5755	0.6796	1.2150	0.5788	0.3157	0.2640	0.2675	0.8904
%RSD		2.2888	2.7231	4.7653	2.3528	1.2760	1.0618	1.0902	3.7483

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:01	25.4646	108.92%	25.8752	26.5959	25.7106	27.7358	25.0745	25.0245
2	22:33:59	24.4829	105.03%	25.2184	24.7541	25.6769	24.8977	25.1801	24.8371
3	22:34:56	24.2411	103.73%	24.8875	25.4799	25.0110	24.1196	25.0940	25.2152
x		24.7295	105.90%	25.3271	25.6100	25.4662	25.5844	25.1162	25.0256
σ		0.6480	2.70%	0.5027	0.9278	0.3946	1.9034	0.0562	0.1890
%RSD		2.6203	2.55	1.9848	3.6228	1.5495	7.4397	0.2237	0.7553

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:01	25.1778	106.25%	25.9409	26.0772	25.8972	25.2806	25.1367	103.90%
2	22:33:59	25.1057	106.46%	25.2596	24.9427	24.4970	24.4429	24.3518	105.36%
3	22:34:56	24.7963	105.63%	25.2775	24.9122	24.4939	24.1627	24.5467	105.03%
x		25.0266	106.11%	25.4926	25.3107	24.9627	24.6287	24.6784	104.76%
σ		0.2027	0.43%	0.3883	0.6640	0.8093	0.5817	0.4087	0.77%
%RSD		0.8099	0.41	1.5231	2.6233	3.2419	2.3617	1.6560	0.73

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:01	25.2461	25.3307	25.8133	26.0217	25.6904	101.78%	25.5425	25.3532
2	22:33:59	24.4628	24.7048	24.7134	25.0136	24.7507	104.53%	25.2191	25.0897
3	22:34:56	24.5919	24.6089	24.7032	24.8780	24.7083	104.77%	25.2755	25.4401
x		24.7669	24.8815	25.0766	25.3045	25.0498	103.70%	25.3457	25.2943
σ		0.4200	0.3920	0.6380	0.6249	0.5552	1.66%	0.1727	0.1824
%RSD		1.6958	1.5755	2.5443	2.4694	2.2163	1.60	0.6816	0.7213

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:33:01	25.2257	25.3246	25.2351
2	22:33:59	24.6349	24.9763	24.7784
3	22:34:56	24.9378	25.0475	24.9073
x		24.9328	25.1162	24.9736
σ		0.2954	0.1840	0.2354
%RSD		1.1849	0.7327	0.9428

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:05	123.92%	0.0003	-0.0121	113.66%	0.0077	0.0444	-0.1769	-0.0032
2	22:43:03	107.52%	-0.0010	-0.0040	107.20%	0.0365	0.0351	-0.2410	0.0009
3	22:44:00	101.39%	0.0023	-0.0063	103.54%	0.0075	0.0210	-0.1945	-0.0017
x		110.95%	0.0005	-0.0075	108.14%	0.0172	0.0335	-0.2042	-0.0013
σ		11.65%	0.0016	0.0042	5.12%	0.0167	0.0118	0.0331	0.0021
%RSD		10.50	311.9560	55.8134	4.74	96.8107	35.0715	16.2213	155.0336

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:05	-0.0004	0.0010	0.7738	-0.3796	-0.0272	-0.0191	-0.0450	0.0162
2	22:43:03	-0.0018	0.0033	0.8827	-0.3613	-0.0323	-0.0170	-0.0103	0.0374
3	22:44:00	-0.0017	0.0013	0.0788	-0.3553	-0.0337	-0.0045	-0.0397	0.0075
x		-0.0013	0.0018	0.5784	-0.3654	-0.0311	-0.0135	-0.0317	0.0204
σ		0.0008	0.0012	0.4361	0.0127	0.0034	0.0079	0.0187	0.0154
%RSD		57.8718	67.8271	75.3994	3.4734	11.0483	58.3610	59.0093	75.3939

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:05	-0.0319	112.29%	0.1931	0.0163	-0.0420	0.7448	0.0645	0.0649
2	22:43:03	-0.0289	105.38%	0.0062	0.1964	0.0144	0.2322	0.0878	0.0984
3	22:44:00	0.0003	104.11%	0.0485	0.0681	0.0257	0.2959	0.0762	0.1034
x		-0.0202	107.26%	0.0826	0.0936	-0.0006	0.4243	0.0762	0.0889
σ		0.0177	4.40%	0.0980	0.0927	0.0363	0.2794	0.0117	0.0210
%RSD		88.0190	4.10	118.6181	99.0548	5686.3010	65.8420	15.3242	23.5684

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:05	0.0634	105.53%	-0.0006	-0.0002	0.0000	-0.0017	0.0008	106.08%
2	22:43:03	0.0903	103.48%	0.0019	-0.0011	0.0000	-0.0005	0.0027	104.53%
3	22:44:00	0.0940	104.05%	0.0034	0.0034	0.0023	0.0030	-0.0001	104.92%
x		0.0826	104.35%	0.0016	0.0007	0.0008	0.0003	0.0012	105.18%
σ		0.0167	1.06%	0.0020	0.0024	0.0013	0.0024	0.0014	0.81%
%RSD		20.2313	1.01	126.2489	342.4054	173.2051	893.5152	124.0589	0.77

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:05	0.0014	0.0002	0.0063	0.0017	0.0002	101.39%	-0.0008	0.0045
2	22:43:03	0.0073	0.0012	-0.0071	-0.0002	0.0002	103.55%	0.0037	0.0029
3	22:44:00	0.0029	0.0003	-0.0004	0.0054	0.0022	104.38%	0.0040	0.0030
x		0.0039	0.0006	-0.0004	0.0023	0.0009	103.11%	0.0023	0.0035
σ		0.0031	0.0006	0.0067	0.0028	0.0012	1.54%	0.0027	0.0009
%RSD		79.3853	96.6785	1792.4380	122.7331	127.2646	1.50	117.9388	26.0118

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:42:05	-0.0033	-0.0011	-0.0009
2	22:43:03	0.0004	-0.0006	-0.0012
3	22:44:00	-0.0015	-0.0031	-0.0016
x		-0.0014	-0.0016	-0.0013
σ		0.0019	0.0013	0.0004
%RSD		130.0462	82.2646	29.4567

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:10	109.81%	0.0036	16.2240	111.11%	0.6800	0.2328	0.7804	1453.7558
2	22:48:07	96.03%	-0.0008	15.6830	106.21%	0.6507	0.1743	0.8723	1404.2735
3	22:49:05	96.55%	0.0045	15.9225	100.95%	0.6644	0.2020	0.8639	1471.6676
x		100.80%	0.0024	15.9431	106.09%	0.6650	0.2030	0.8388	1443.2323
σ		7.81%	0.0029	0.2711	5.08%	0.0146	0.0293	0.0508	34.9077
%RSD		7.74	116.7394	1.7004	4.79	2.1986	14.4199	6.0578	2.4187

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:10	3.1111	3.9737	45.3103	3.1390	1.3889	1.2055	536.9166	498.4939
2	22:48:07	2.9537	3.8955	37.2586	3.3190	1.3157	1.0747	519.8277	485.7838
3	22:49:05	3.0911	3.8406	39.5578	3.2378	1.3681	1.0266	542.8125	502.0722
x		3.0520	3.9033	40.7089	3.2319	1.3576	1.1023	533.1856	495.4500
σ		0.0857	0.0669	4.1474	0.0901	0.0377	0.0926	11.9380	8.5602
%RSD		2.8072	1.7137	10.1881	2.7892	2.7803	8.4026	2.2390	1.7278

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:10	535.3690	93.96%	4.1050	0.4781	0.2014	1.8036	1.1109	1.0171
2	22:48:07	521.3391	92.13%	3.7834	0.8385	0.2387	1.8017	1.0253	1.0947
3	22:49:05	541.3744	88.85%	4.4143	0.9234	0.1117	2.5723	1.0883	1.1785
x		532.6942	91.65%	4.1009	0.7467	0.1839	2.0592	1.0749	1.0968
σ		10.2820	2.59%	0.3155	0.2365	0.0653	0.4444	0.0443	0.0807
%RSD		1.9302	2.83	7.6924	31.6690	35.5075	21.5792	4.1250	7.3573

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:10	1.0053	90.45%	0.0041	0.0043	101.8026	100.8410	100.3527	93.41%
2	22:48:07	1.0329	88.17%	0.0071	0.0002	99.5990	98.8993	97.5358	94.31%
3	22:49:05	1.1085	85.72%	0.0061	0.0069	103.9117	103.2289	102.3507	90.92%
x		1.0489	88.11%	0.0058	0.0038	101.7711	100.9897	100.0797	92.88%
σ		0.0534	2.36%	0.0015	0.0034	2.1565	2.1686	2.4190	1.76%
%RSD		5.0931	2.68	26.1629	88.6011	2.1190	2.1474	2.4171	1.89

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:10	0.1073	0.1006	116.7448	114.9152	116.2986	95.75%	0.0179	0.0140
2	22:48:07	0.1045	0.0972	115.5777	112.2669	113.8506	98.97%	0.0073	0.0115
3	22:49:05	0.1125	0.1072	120.0745	117.7785	119.2198	96.50%	0.0049	0.0092
x		0.1081	0.1017	117.4657	114.9869	116.4563	97.07%	0.0100	0.0115
σ		0.0041	0.0051	2.3335	2.7565	2.6881	1.69%	0.0069	0.0024
%RSD		3.7492	5.0089	1.9865	2.3972	2.3082	1.74	68.6018	20.8412

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:47:10	0.4265	0.4743	0.4616
2	22:48:07	0.4296	0.4379	0.4557
3	22:49:05	0.4663	0.4732	0.4740
x		0.4408	0.4618	0.4638
σ		0.0222	0.0207	0.0093
%RSD		5.0339	4.4835	2.0077

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:58	98.34%	0.0044	3.9386	102.77%	0.1448	0.0666	0.1978	285.1263
2	22:52:55	91.78%	-0.0007	3.8836	98.56%	0.1174	0.0713	0.1538	277.3095
3	22:53:52	93.81%	-0.0001	4.0776	96.79%	0.1487	0.0772	0.1126	290.9840
x		94.64%	0.0012	3.9666	99.37%	0.1369	0.0717	0.1547	284.4732
σ		3.35%	0.0028	0.1000	3.07%	0.0171	0.0053	0.0426	6.8606
%RSD		3.54	231.6004	2.5212	3.09	12.4547	7.4158	27.5233	2.4117

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:58	0.6701	0.8914	9.0541	0.5487	0.2797	0.2393	128.2444	117.9041
2	22:52:55	0.6385	0.8599	7.3278	0.4221	0.2621	0.2293	123.6302	117.6217
3	22:53:52	0.6894	0.8881	9.0539	0.4244	0.2624	0.2918	125.2946	115.2114
x		0.6660	0.8798	8.4786	0.4651	0.2681	0.2535	125.7231	116.9124
σ		0.0257	0.0173	0.9966	0.0724	0.0101	0.0336	2.3367	1.4799
%RSD		3.8627	1.9673	11.7547	15.5720	3.7561	13.2487	1.8586	1.2658

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:58	125.8162	96.85%	0.7576	0.1285	0.2475	0.0608	0.1909	0.2891
2	22:52:55	121.7504	95.57%	1.0876	0.0841	0.4724	1.0680	0.2406	0.2386
3	22:53:52	123.8119	96.19%	0.7477	0.3197	0.4640	0.2670	0.1907	0.2542
x		123.7928	96.20%	0.8643	0.1774	0.3947	0.4653	0.2074	0.2606
σ		2.0330	0.64%	0.1935	0.1251	0.1275	0.5321	0.0288	0.0259
%RSD		1.6423	0.67	22.3815	70.5290	32.3057	114.3635	13.8757	9.9201

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:58	0.2259	95.81%	0.0022	-0.0010	22.4589	21.7239	22.0884	96.67%
2	22:52:55	0.2350	94.29%	0.0012	-0.0005	22.2082	21.8870	21.9587	97.19%
3	22:53:52	0.2039	94.96%	0.0017	0.0006	22.7138	22.1969	22.0992	97.50%
x		0.2216	95.02%	0.0017	-0.0003	22.4603	21.9359	22.0488	97.12%
σ		0.0160	0.76%	0.0005	0.0008	0.2528	0.2402	0.0782	0.42%
%RSD		7.2312	0.80	31.0690	298.1875	1.1255	1.0952	0.3546	0.43

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:58	0.0206	0.0229	23.8404	24.5947	24.0913	97.59%	0.0003	0.0022
2	22:52:55	0.0189	0.0156	23.9803	23.6856	23.3993	99.49%	-0.0012	-0.0002
3	22:53:52	0.0220	0.0287	23.8050	23.6393	23.7640	99.78%	-0.0021	0.0009
x		0.0205	0.0224	23.8752	23.9732	23.7515	98.96%	-0.0010	0.0010
σ		0.0015	0.0065	0.0927	0.5387	0.3462	1.19%	0.0012	0.0012
%RSD		7.5162	29.2717	0.3882	2.2472	1.4575	1.20	123.1240	118.9508

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:51:58	0.0917	0.1063	0.0995
2	22:52:55	0.0948	0.1133	0.1007
3	22:53:52	0.1027	0.0994	0.1043
x		0.0964	0.1063	0.1015
σ		0.0057	0.0069	0.0025
%RSD		5.8981	6.5241	2.4179

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:44	110.04%	19.7088	34.1979	107.90%	21.5095	20.1144	20.9354	1531.1144
2	22:57:41	98.12%	19.5442	36.4725	105.42%	20.9282	19.4569	20.1157	1481.7415
3	22:58:39	99.64%	18.6422	33.4322	100.36%	20.9241	19.9491	21.7219	1504.6281
x		102.60%	19.2984	34.7009	104.56%	21.1206	19.8402	20.9243	1505.8280
σ		6.49%	0.5742	1.5813	3.84%	0.3368	0.3420	0.8032	24.7083
%RSD		6.32	2.9756	4.5570	3.68	1.5948	1.7239	3.8384	1.6408

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:44	23.5441	23.6886	62.1853	23.6496	20.8937	20.3770	558.4070	524.1780
2	22:57:41	22.8626	22.9680	53.9447	22.7765	20.4129	20.2406	561.5494	520.3253
3	22:58:39	23.3238	23.8918	59.3333	24.0265	21.5218	20.7250	573.1298	538.0061
x		23.2435	23.5161	58.4877	23.4842	20.9428	20.4475	564.3621	527.5031
σ		0.3478	0.4854	4.1849	0.6412	0.5561	0.2498	7.7539	9.2976
%RSD		1.4962	2.0642	7.1551	2.7302	2.6551	1.2217	1.3739	1.7626

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:44	559.7461	93.64%	26.2321	22.0928	22.1281	22.5475	24.2403	24.5921
2	22:57:41	549.5392	90.93%	25.4957	20.8375	22.5930	23.0875	24.0989	25.0033
3	22:58:39	572.9903	88.55%	26.6121	21.5852	21.8651	22.9796	24.8195	24.6993
x		560.7585	91.04%	26.1133	21.5052	22.1954	22.8715	24.3862	24.7649
σ		11.7583	2.55%	0.5676	0.6314	0.3686	0.2858	0.3819	0.2133
%RSD		2.0969	2.80	2.1737	2.9362	1.6607	1.2494	1.5659	0.8612

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:44	24.1991	89.00%	9.6205	9.4167	125.2450	124.2253	122.7071	92.97%
2	22:57:41	24.1927	88.59%	9.2994	9.2882	121.3988	122.3620	120.8777	92.64%
3	22:58:39	25.2307	86.74%	9.5702	9.1971	122.4898	123.7295	122.1743	92.43%
x		24.5408	88.11%	9.4967	9.3007	123.0446	123.4389	121.9197	92.68%
σ		0.5975	1.20%	0.1727	0.1103	1.9822	0.9651	0.9409	0.27%
%RSD		2.4346	1.37	1.8184	1.1865	1.6110	0.7818	0.7717	0.29

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:44	21.3176	21.0157	140.6722	139.3069	140.4249	94.47%	20.8011	20.8627
2	22:57:41	20.8299	20.9315	137.0472	136.8823	139.3286	96.50%	20.6569	20.4839
3	22:58:39	21.5871	21.3871	139.3865	138.8217	140.9785	96.36%	21.0489	20.8029
x		21.2448	21.1115	139.0353	138.3370	140.2440	95.77%	20.8357	20.7165
σ		0.3838	0.2424	1.8379	1.2829	0.8397	1.14%	0.1983	0.2036
%RSD		1.8067	1.1483	1.3219	0.9274	0.5987	1.19	0.9515	0.9830

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	22:56:44	20.2442	20.5884	20.3160
2	22:57:41	20.1113	20.1694	20.1271
3	22:58:39	20.2135	20.4922	20.3814
x		20.1896	20.4167	20.2749
σ		0.0696	0.2195	0.1320
%RSD		0.3447	1.0749	0.6513

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:44	118.69%	17.1733	31.9502	113.25%	18.1913	17.3420	18.0295	1388.9726
2	23:03:42	102.26%	17.4083	32.6930	110.26%	17.7219	16.5367	17.7980	1368.8933
3	23:04:39	98.84%	16.6100	33.5533	103.48%	18.7979	17.4647	18.0824	1375.3409
x		106.60%	17.0639	32.7322	109.00%	18.2370	17.1145	17.9699	1377.7356
σ		10.61%	0.4103	0.8023	5.01%	0.5394	0.5041	0.1513	10.2516
%RSD		9.96	2.4044	2.4510	4.59	2.9579	2.9455	0.8418	0.7441

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:44	20.9426	20.6361	58.6658	20.3437	18.4096	17.7975	521.0889	489.3151
2	23:03:42	20.4607	20.5167	55.5959	20.1301	18.2917	18.3073	521.9512	484.5737
3	23:04:39	20.7434	20.6399	50.8882	20.2528	18.0404	18.0904	529.0704	496.2302
x		20.7156	20.5975	55.0500	20.2422	18.2472	18.0651	524.0368	490.0397
σ		0.2421	0.0701	3.9174	0.1072	0.1886	0.2558	4.3805	5.8620
%RSD		1.1689	0.3402	7.1161	0.5297	1.0334	1.4162	0.8359	1.1962

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:44	512.5625	97.74%	22.6110	20.2312	17.6550	21.1636	21.3408	21.8799
2	23:03:42	522.4912	92.31%	23.1976	20.5127	20.1699	21.1131	21.9851	22.2939
3	23:04:39	528.7325	90.36%	22.4974	20.8233	19.7415	20.6150	21.6463	21.7440
x		521.2621	93.47%	22.7686	20.5224	19.1888	20.9639	21.6574	21.9726
σ		8.1548	3.82%	0.3758	0.2962	1.3455	0.3032	0.3223	0.2865
%RSD		1.5644	4.09	1.6504	1.4432	7.0118	1.4464	1.4880	1.3037

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:44	20.8000	91.63%	17.8240	17.5689	113.2170	113.8456	112.8787	94.06%
2	23:03:42	21.2821	89.10%	17.9760	17.6095	114.1948	113.7952	112.4812	92.74%
3	23:04:39	21.7872	87.93%	17.9681	17.5660	114.6512	113.0369	112.8236	92.33%
x		21.2897	89.55%	17.9227	17.5815	114.0210	113.5592	112.7278	93.04%
σ		0.4936	1.90%	0.0856	0.0243	0.7328	0.4530	0.2153	0.90%
%RSD		2.3187	2.12	0.4776	0.1380	0.6426	0.3990	0.1910	0.97

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:02:44	18.5044	18.2994	129.6872	129.0965	130.4199	95.37%	18.3059	18.1564
2	23:03:42	18.3026	18.2533	130.7484	129.2516	128.6217	96.87%	18.0261	18.1816
3	23:04:39	18.4863	18.4747	130.1124	129.6357	130.3456	96.12%	18.5342	18.6123
x		18.4311	18.3425	130.1827	129.3279	129.7957	96.12%	18.2887	18.3168
σ		0.1117	0.1168	0.5341	0.2776	1.0174	0.75%	0.2545	0.2562
%RSD		0.6060	0.6368	0.4102	0.2146	0.7838	0.78	1.3914	1.3989

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:02:44	17.5046	17.7500	17.5901
2	23:03:42	17.5820	17.6208	17.5933
3	23:04:39	17.8199	17.9754	17.9131
x		17.6355	17.7821	17.6988
σ		0.1643	0.1795	0.1856
%RSD		0.9319	1.0094	1.0486

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:29	113.16%	0.0074	20.3773	113.55%	0.6935	0.2612	1.0256	1450.6601
2	23:09:26	101.55%	0.0060	20.2703	106.85%	0.7465	0.2564	0.8887	1422.7737
3	23:10:24	98.91%	0.0043	20.6472	103.30%	0.7236	0.2625	0.9837	1477.3384
x		104.54%	0.0059	20.4316	107.90%	0.7212	0.2601	0.9660	1450.2574
σ		7.58%	0.0016	0.1942	5.21%	0.0266	0.0032	0.0701	27.2846
%RSD		7.25	26.1939	0.9507	4.83	3.6828	1.2303	7.2593	1.8814

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:29	3.1844	4.2116	46.2907	3.5611	1.3935	1.2280	539.8083	498.0251
2	23:09:26	3.0775	3.7751	44.4450	3.4191	1.4162	1.0299	530.0214	496.4395
3	23:10:24	3.1549	4.0226	39.4368	3.6603	1.4954	1.1089	554.7545	518.4044
x		3.1389	4.0031	43.3909	3.5468	1.4350	1.1223	541.5281	504.2897
σ		0.0552	0.2189	3.5464	0.1212	0.0535	0.0997	12.4559	12.2494
%RSD		1.7588	5.4682	8.1733	3.4184	3.7271	8.8850	2.3001	2.4290

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:29	527.4313	94.16%	4.1602	0.9657	0.0517	2.1301	1.1724	1.1595
2	23:09:26	531.1674	91.40%	4.2460	0.9445	0.2738	2.3961	1.1699	1.1415
3	23:10:24	552.1656	87.32%	4.1486	0.9896	-0.0598	1.9485	1.2643	1.2749
x		536.9214	90.96%	4.1850	0.9666	0.0885	2.1582	1.2022	1.1920
σ		13.3333	3.44%	0.0532	0.0226	0.1698	0.2251	0.0538	0.0724
%RSD		2.4833	3.78	1.2714	2.3338	191.8086	10.4314	4.4766	6.0727

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:29	1.1865	89.45%	0.0007	0.0020	102.8586	101.3678	100.7441	91.90%
2	23:09:26	1.1761	88.27%	0.0008	0.0014	100.9044	100.2643	99.4358	92.32%
3	23:10:24	1.1970	85.95%	0.0079	0.0021	104.4268	102.6517	103.0970	90.30%
x		1.1865	87.89%	0.0031	0.0019	102.7300	101.4279	101.0923	91.51%
σ		0.0105	1.78%	0.0041	0.0004	1.7647	1.1948	1.8553	1.06%
%RSD		0.8827	2.02	131.6975	20.0283	1.7178	1.1780	1.8352	1.16

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:29	0.1043	0.1239	117.8743	116.7693	117.6786	92.60%	0.0045	0.0061
2	23:09:26	0.0961	0.1176	115.8280	113.9380	115.3182	95.77%	0.0078	0.0065
3	23:10:24	0.1067	0.1235	119.5020	119.9006	119.5644	93.75%	0.0048	0.0042
x		0.1024	0.1217	117.7348	116.8693	117.5204	94.04%	0.0057	0.0056
σ		0.0056	0.0036	1.8409	2.9825	2.1275	1.61%	0.0018	0.0012
%RSD		5.4396	2.9183	1.5636	2.5520	1.8103	1.71	31.8249	21.2628

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:08:29	0.4500	0.4982	0.4718
2	23:09:26	0.4502	0.4654	0.4728
3	23:10:24	0.4579	0.5366	0.4943
x		0.4527	0.5001	0.4796
σ		0.0045	0.0356	0.0127
%RSD		0.9949	7.1213	2.6577

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:19	119.05%	0.0081	25.4273	106.68%	12.7656	0.2596	1.0566	656.1113
2	23:14:16	94.71%	0.0121	26.0329	95.96%	12.7501	0.2819	0.8240	649.2369
3	23:15:14	88.56%	0.0073	25.1377	96.27%	12.6042	0.2406	0.9529	627.1867
x		100.77%	0.0092	25.5326	99.64%	12.7067	0.2607	0.9445	644.1783
σ		16.12%	0.0026	0.4568	6.10%	0.0890	0.0207	0.1165	15.1113
%RSD		16.00	28.1668	1.7890	6.12	0.7007	7.9219	12.3378	2.3458

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:19	2.0803	8.1481	47.7157	7.6309	2.3278	2.2326	7634.9268	6720.2907
2	23:14:16	2.0566	7.8526	44.8399	7.3876	2.4852	2.2411	7524.3887	6607.2943
3	23:15:14	2.0097	7.4236	38.9910	7.5831	2.4294	2.1603	7459.6599	6580.9189
x		2.0489	7.8081	43.8489	7.5339	2.4141	2.2113	7539.6585	6636.1680
σ		0.0359	0.3643	4.4460	0.1289	0.0798	0.0444	88.6256	74.0364
%RSD		1.7542	4.6654	10.1394	1.7112	3.3054	2.0060	1.1755	1.1157

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:19	7500.3605	90.17%	1.7893	3.2453	2.6907	3.8069	1.1750	1.0774
2	23:14:16	7387.2923	84.25%	1.6431	3.7349	3.0431	4.1446	1.1658	1.1508
3	23:15:14	7266.2659	84.00%	1.8211	2.4927	2.2844	3.2327	1.1450	1.0879
x		7384.6396	86.14%	1.7512	3.1576	2.6727	3.7281	1.1619	1.1053
σ		117.0698	3.49%	0.0949	0.6257	0.3796	0.4610	0.0154	0.0397
%RSD		1.5853	4.05	5.4216	19.8161	14.2044	12.3654	1.3223	3.5909

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:19	1.1832	86.63%	0.0061	0.0064	2167.5851	2196.6397	2215.2873	88.94%
2	23:14:16	1.1751	82.89%	0.0070	0.0048	2133.6873	2151.3207	2167.9224	87.06%
3	23:15:14	1.1809	83.59%	0.0100	0.0066	2129.3710	2152.6574	2165.2826	87.72%
x		1.1797	84.37%	0.0077	0.0059	2143.5478	2166.8726	2182.8308	87.90%
σ		0.0042	1.99%	0.0020	0.0010	20.9285	25.7878	28.1392	0.96%
%RSD		0.3545	2.36	26.2150	16.4757	0.9763	1.1901	1.2891	1.09

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Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:19	0.1394	0.1333	56.9137	56.5988	56.9921	91.48%	0.0056	0.0084
2	23:14:16	0.1324	0.1065	56.7574	55.4691	55.9349	91.93%	0.0031	0.0091
3	23:15:14	0.1278	0.1412	56.2180	55.3033	55.6752	93.84%	0.0053	0.0075
x		0.1332	0.1270	56.6297	55.7904	56.2008	92.42%	0.0047	0.0084
σ		0.0058	0.0182	0.3651	0.7050	0.6975	1.25%	0.0013	0.0008
%RSD		4.3865	14.3304	0.6446	1.2636	1.2411	1.36	28.5600	9.9277

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:13:19	0.6195	0.6406	0.6392
2	23:14:16	0.6096	0.6626	0.6364
3	23:15:14	0.5764	0.6573	0.6049
x		0.6018	0.6535	0.6269
σ		0.0226	0.0115	0.0190
%RSD		3.7505	1.7574	3.0385

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:02	117.30%	0.0094	12.1855	106.45%	12.3676	0.2429	1.0406	577.8302
2	23:19:00	109.04%	0.0055	12.0326	101.91%	12.0753	0.2026	0.9019	552.4149
3	23:19:57	99.29%	0.0076	11.6169	99.71%	12.3052	0.2502	0.8982	553.5925
x		108.54%	0.0075	11.9450	102.69%	12.2494	0.2319	0.9469	561.2792
σ		9.02%	0.0019	0.2942	3.44%	0.1539	0.0257	0.0812	14.3457
%RSD		8.31	25.8250	2.4633	3.35	1.2568	11.0628	8.5721	2.5559

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:02	1.8777	6.9952	48.9286	7.2427	2.2517	2.0872	6343.9619	5607.2572
2	23:19:00	1.8520	6.7700	40.3148	6.4889	2.2319	1.8963	6079.2660	5420.6889
3	23:19:57	1.7721	6.7469	40.1563	6.7257	2.1170	2.1174	6190.9581	5477.0533
x		1.8339	6.8374	43.1333	6.8191	2.2002	2.0336	6204.7287	5501.6665
σ		0.0551	0.1372	5.0195	0.3855	0.0727	0.1199	132.8842	95.6885
%RSD		3.0023	2.0065	11.6373	5.6527	3.3049	5.8953	2.1417	1.7393

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:02	6191.3245	88.57%	1.4366	3.5499	2.4131	3.7328	1.1740	1.3457
2	23:19:00	5959.9737	87.24%	1.6409	3.2446	2.9642	3.9099	1.1771	1.3429
3	23:19:57	6026.6939	85.34%	1.5779	3.1406	2.6590	3.9157	1.1771	1.1130
x		6059.3307	87.05%	1.5518	3.3117	2.6787	3.8528	1.1761	1.2672
σ		119.0784	1.62%	0.1046	0.2127	0.2761	0.1040	0.0018	0.1335
%RSD		1.9652	1.86	6.7432	6.4241	10.3064	2.6992	0.1523	10.5362

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:02	1.1517	86.85%	0.0085	0.0009	1891.6580	1905.3984	1912.5624	89.35%
2	23:19:00	1.1283	84.88%	0.0056	-0.0002	1845.8437	1861.8384	1861.3688	89.96%
3	23:19:57	1.1533	85.49%	0.0038	0.0022	1858.9410	1879.5315	1893.0275	88.73%
x		1.1444	85.74%	0.0060	0.0010	1865.4809	1882.2561	1888.9862	89.35%
σ		0.0140	1.01%	0.0023	0.0012	23.5969	21.9074	25.8350	0.61%
%RSD		1.2198	1.18	39.2191	126.8154	1.2649	1.1639	1.3677	0.69

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Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:02	0.1404	0.1293	56.3460	54.7797	55.6859	92.02%	0.0022	0.0074
2	23:19:00	0.1284	0.1163	54.8387	54.1779	53.9075	93.30%	0.0072	0.0070
3	23:19:57	0.1315	0.1628	55.2884	54.3258	54.9186	94.51%	0.0075	0.0064
x		0.1334	0.1362	55.4911	54.4278	54.8373	93.28%	0.0056	0.0069
σ		0.0063	0.0240	0.7738	0.3136	0.8919	1.25%	0.0030	0.0005
%RSD		4.6952	17.6070	1.3945	0.5762	1.6265	1.34	53.2647	6.7408

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:18:02	0.3954	0.3756	0.4026
2	23:19:00	0.4008	0.4179	0.4076
3	23:19:57	0.3659	0.4044	0.3923
x		0.3874	0.3993	0.4008
σ		0.0188	0.0216	0.0078
%RSD		4.8571	5.4108	1.9492

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:50	103.76%	0.0003	26.9838	100.84%	1.3693	0.2872	1.2943	85.1322
2	23:23:47	95.22%	0.0033	26.7915	97.44%	1.2694	0.2992	1.4034	85.4233
3	23:24:44	96.36%	0.0025	25.3749	96.74%	1.3127	0.2544	1.1717	86.3712
x		98.45%	0.0020	26.3834	98.34%	1.3172	0.2802	1.2898	85.6422
σ		4.63%	0.0015	0.8787	2.20%	0.0501	0.0232	0.1159	0.6479
%RSD		4.71	75.9268	3.3304	2.23	3.8032	8.2667	8.9891	0.7565

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:50	0.3838	3.6058	37.3190	3.0357	6.0688	5.8616	567.1567	531.0662
2	23:23:47	0.3715	3.0607	31.8693	2.9667	5.8995	5.5546	534.9982	488.4735
3	23:24:44	0.3452	3.3689	31.6840	2.6907	5.9976	5.8841	549.2223	509.8750
x		0.3668	3.3451	33.6241	2.8977	5.9886	5.7668	550.4590	509.8049
σ		0.0197	0.2733	3.2012	0.1826	0.0850	0.1841	16.1149	21.2964
%RSD		5.3735	8.1706	9.5206	6.3013	1.4194	3.1916	2.9275	4.1774

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:50	561.0237	89.52%	3.1395	1.2699	1.4818	2.0585	1.6864	1.7894
2	23:23:47	530.6277	89.54%	2.9870	1.6829	0.6813	1.7689	1.6323	1.8032
3	23:24:44	541.7341	88.12%	2.8362	1.4436	0.7820	1.9670	1.7640	1.6810
x		544.4618	89.06%	2.9875	1.4655	0.9817	1.9315	1.6942	1.7579
σ		15.3805	0.81%	0.1516	0.2074	0.4360	0.1481	0.0662	0.0669
%RSD		2.8249	0.91	5.0760	14.1510	44.4132	7.6657	3.9077	3.8062

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:50	1.6560	87.52%	0.0243	0.0214	53.7887	53.1535	53.1061	88.94%
2	23:23:47	1.6988	86.15%	0.0209	0.0255	52.6986	51.5941	51.6412	90.72%
3	23:24:44	1.7391	87.20%	0.0196	0.0219	52.6631	51.5376	51.9383	90.22%
x		1.6980	86.96%	0.0216	0.0229	53.0501	52.0951	52.2285	89.96%
σ		0.0416	0.72%	0.0025	0.0023	0.6399	0.9171	0.7744	0.92%
%RSD		2.4484	0.83	11.3545	9.9371	1.2061	1.7604	1.4826	1.02

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:50	0.5021	0.5080	127.5368	126.0441	126.8461	91.79%	0.0094	0.0107
2	23:23:47	0.4556	0.4823	121.3869	121.1780	122.1009	94.41%	0.0112	0.0089
3	23:24:44	0.4977	0.5085	124.4027	124.3108	124.5782	94.52%	0.0089	0.0093
x		0.4852	0.4996	124.4421	123.8443	124.5084	93.57%	0.0098	0.0096
σ		0.0257	0.0150	3.0751	2.4664	2.3734	1.55%	0.0012	0.0010
%RSD		5.2873	3.0009	2.4711	1.9915	1.9062	1.65	12.5992	9.8881

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:22:50	0.4271	0.5005	0.4589
2	23:23:47	0.4300	0.4545	0.4584
3	23:24:44	0.4526	0.4649	0.4674
x		0.4366	0.4733	0.4616
σ		0.0140	0.0241	0.0051
%RSD		3.1989	5.1005	1.0954

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:34	96.60%	0.0118	156.9621	98.65%	1.4841	0.4933	2.2001	246.7430
2	23:28:32	86.92%	0.0127	164.5971	94.81%	1.5320	0.4248	1.9284	238.8787
3	23:29:29	88.04%	0.0125	155.9972	95.60%	1.5087	0.4765	1.9966	239.5705
x		90.52%	0.0123	159.1855	96.36%	1.5083	0.4649	2.0417	241.7307
σ		5.29%	0.0004	4.7114	2.03%	0.0240	0.0357	0.1414	4.3545
%RSD		5.85	3.4612	2.9597	2.11	1.5894	7.6828	6.9248	1.8014

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:34	0.7216	3.6505	47.6571	3.0545	3.0020	2.5564	110.2850	108.1980
2	23:28:32	0.7243	3.6761	40.1894	3.1812	2.9815	2.4832	113.3043	107.5260
3	23:29:29	0.7025	3.5661	43.3021	2.7537	2.9224	2.5463	112.0731	106.9730
x		0.7161	3.6309	43.7162	2.9965	2.9686	2.5287	111.8875	107.5657
σ		0.0119	0.0575	3.7510	0.2196	0.0413	0.0397	1.5182	0.6134
%RSD		1.6586	1.5849	8.5804	7.3271	1.3912	1.5705	1.3569	0.5703

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:34	112.7342	87.00%	3.0796	0.7913	-0.2025	2.3293	2.6429	2.8322
2	23:28:32	113.6506	84.11%	3.2582	1.4154	0.0474	2.6995	2.8105	2.7937
3	23:29:29	113.4763	83.51%	3.1845	1.3690	0.1315	3.1892	2.6595	2.6622
x		113.2871	84.87%	3.1741	1.1919	-0.0079	2.7393	2.7043	2.7627
σ		0.4866	1.87%	0.0898	0.3477	0.1738	0.4313	0.0923	0.0891
%RSD		0.4296	2.20	2.8277	29.1706	2209.6562	15.7450	3.4145	3.2255

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:34	2.6446	82.12%	0.0065	0.0061	3.1444	3.0922	3.0860	86.64%
2	23:28:32	2.5902	81.50%	0.0115	0.0087	3.1269	3.1215	3.0407	87.38%
3	23:29:29	2.8001	81.68%	0.0077	0.0099	3.0875	3.0821	2.9575	87.19%
x		2.6783	81.76%	0.0086	0.0082	3.1196	3.0986	3.0281	87.07%
σ		0.1089	0.32%	0.0026	0.0019	0.0292	0.0204	0.0652	0.38%
%RSD		4.0678	0.39	30.2190	23.3357	0.9348	0.6598	2.1535	0.44

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:34	0.2499	0.2618	129.1022	127.8371	129.0207	89.09%	0.0064	0.0040
2	23:28:32	0.2449	0.2569	127.0081	125.8558	127.0103	91.02%	0.0090	0.0044
3	23:29:29	0.2223	0.2771	129.0068	126.6943	127.1926	92.30%	-0.0002	0.0027
x		0.2390	0.2653	128.3724	126.7957	127.7412	90.81%	0.0051	0.0037
σ		0.0147	0.0106	1.1825	0.9945	1.1118	1.61%	0.0048	0.0009
%RSD		6.1573	3.9853	0.9211	0.7844	0.8704	1.78	94.1653	24.3797

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:27:34	1.3387	1.3599	1.3569
2	23:28:32	1.3470	1.3515	1.3639
3	23:29:29	1.2726	1.3696	1.3538
x		1.3194	1.3603	1.3582
σ		0.0408	0.0091	0.0052
%RSD		3.0923	0.6663	0.3810

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:26	118.53%	-0.0012	4.4620	117.39%	0.0429	0.1672	0.0721	0.0873
2	23:33:23	112.88%	-0.0005	4.3898	108.81%	0.0448	0.1613	0.0493	0.1184
3	23:34:20	103.46%	-0.0003	4.5345	109.40%	0.0536	0.1743	0.0206	0.1315
x		111.62%	-0.0007	4.4621	111.86%	0.0471	0.1676	0.0474	0.1124
σ		7.61%	0.0004	0.0723	4.79%	0.0057	0.0065	0.0258	0.0227
%RSD		6.82	65.8688	1.6212	4.29	12.1577	3.8686	54.4970	20.1859

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:26	0.0044	0.1115	0.6148	0.0983	0.0470	0.0912	10.2164	8.6140
2	23:33:23	0.0083	0.1206	0.7959	0.0144	0.0623	0.0662	10.1563	9.8102
3	23:34:20	0.0037	0.0992	0.4696	0.0865	0.0453	0.0812	10.5393	9.5322
x		0.0055	0.1105	0.6268	0.0664	0.0515	0.0795	10.3040	9.3188
σ		0.0025	0.0107	0.1635	0.0454	0.0094	0.0126	0.2060	0.6260
%RSD		45.0893	9.7026	26.0845	68.4260	18.1679	15.8407	1.9993	6.7173

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:26	9.7887	109.58%	0.0953	0.1017	-0.0215	0.3547	0.0388	0.0465
2	23:33:23	10.1005	107.39%	0.1535	-0.0640	-0.4898	0.5123	0.0333	0.0398
3	23:34:20	10.3054	105.33%	0.2756	0.0232	-0.3398	1.0535	0.0352	0.0271
x		10.0649	107.43%	0.1748	0.0203	-0.2837	0.6402	0.0358	0.0378
σ		0.2602	2.12%	0.0920	0.0829	0.2392	0.3665	0.0028	0.0099
%RSD		2.5854	1.98	52.6534	408.7789	84.2992	57.2527	7.8213	26.1580

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:26	0.0425	107.16%	-0.0006	-0.0017	0.0134	0.0076	0.0129	104.85%
2	23:33:23	0.0307	104.65%	0.0004	-0.0017	0.0293	0.0146	0.0232	104.48%
3	23:34:20	0.0310	104.05%	-0.0015	-0.0006	0.0249	0.0240	0.0316	104.54%
x		0.0347	105.29%	-0.0006	-0.0013	0.0225	0.0154	0.0226	104.62%
σ		0.0067	1.65%	0.0010	0.0006	0.0082	0.0082	0.0094	0.19%
%RSD		19.2701	1.56	175.3702	44.7415	36.4682	53.4906	41.5171	0.19

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:26	0.0007	0.0031	0.0609	0.0532	0.0645	99.56%	-0.0060	-0.0029
2	23:33:23	0.0044	0.0041	0.0947	0.0892	0.0793	100.73%	-0.0038	-0.0036
3	23:34:20	0.0007	0.0012	0.0704	0.0716	0.0790	102.52%	-0.0026	-0.0040
x		0.0019	0.0028	0.0753	0.0714	0.0743	100.94%	-0.0042	-0.0035
σ		0.0021	0.0015	0.0174	0.0180	0.0084	1.49%	0.0017	0.0006
%RSD		110.3974	51.9103	23.1255	25.2254	11.3514	1.47	41.4570	16.7123

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:32:26	0.0080	0.0047	0.0069
2	23:33:23	0.0049	0.0091	0.0078
3	23:34:20	0.0071	0.0082	0.0078
x		0.0067	0.0074	0.0075
σ		0.0016	0.0023	0.0005
%RSD		23.5256	31.3911	7.2366

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	124.30%	24.0656	24.3454	114.95%	24.5652	24.2119	24.0330	24.5625
2	23:38:08	104.85%	25.5169	25.1333	107.67%	24.4660	24.3782	24.6271	24.8383
3	23:39:05	100.50%	24.2447	25.3388	101.51%	24.9976	25.0266	25.3378	25.2584
x		109.88%	24.6091	24.9392	108.04%	24.6763	24.5389	24.6660	24.8864
σ		12.67%	0.7913	0.5244	6.73%	0.2827	0.4305	0.6533	0.3504
%RSD		11.53	3.2153	2.1026	6.23	1.1456	1.7542	2.6484	1.4081

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	24.7138	24.4081	24.0775	24.5486	24.7255	24.5637	23.4808	23.0198
2	23:38:08	25.2195	24.1961	25.5780	24.9033	25.2852	24.2851	24.1056	24.1855
3	23:39:05	24.9685	25.5518	22.0693	25.5672	25.7335	25.4812	25.0696	25.3193
x		24.9673	24.7187	23.9083	25.0063	25.2481	24.7766	24.2187	24.1749
σ		0.2528	0.7293	1.7605	0.5171	0.5051	0.6258	0.8004	1.1498
%RSD		1.0126	2.9502	7.3636	2.0677	2.0004	2.5260	3.3050	4.7563

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	23.9261	109.74%	24.6300	26.5265	24.7455	25.6322	23.6084	24.0525
2	23:38:08	24.3928	103.41%	24.9839	25.4019	24.9193	25.1929	25.2261	25.7578
3	23:39:05	25.2208	97.51%	25.8207	24.5481	24.8319	25.6461	25.8337	26.2143
x		24.5132	103.55%	25.1449	25.4922	24.8322	25.4904	24.8894	25.3415
σ		0.6557	6.11%	0.6114	0.9923	0.0869	0.2577	1.1502	1.1394
%RSD		2.6749	5.90	2.4317	3.8925	0.3498	1.0111	4.6213	4.4962

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	23.9264	106.10%	25.1443	25.1093	23.9412	23.9960	23.8433	104.59%
2	23:38:08	25.1782	102.04%	25.0680	25.0430	24.4585	24.2051	24.1309	102.69%
3	23:39:05	25.6840	98.48%	25.5244	24.8309	24.8768	24.6111	24.4171	99.40%
x		24.9296	102.21%	25.2455	24.9944	24.4255	24.2707	24.1304	102.23%
σ		0.9048	3.81%	0.2445	0.1454	0.4687	0.3128	0.2869	2.63%
%RSD		3.6295	3.73	0.9683	0.5817	1.9189	1.2887	1.1890	2.57

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	23.8684	23.8985	25.0648	24.5681	24.8292	99.04%	24.5355	24.5418
2	23:38:08	24.3654	23.8950	24.6315	24.9787	24.6175	99.47%	25.0938	25.0425
3	23:39:05	24.9033	24.7987	25.0483	25.0328	25.0012	98.49%	25.1206	25.0871
x		24.3790	24.1974	24.9149	24.8599	24.8160	99.00%	24.9166	24.8905
σ		0.5176	0.5207	0.2455	0.2541	0.1922	0.49%	0.3304	0.3028
%RSD		2.1231	2.1520	0.9854	1.0223	0.7745	0.49	1.3258	1.2163

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:37:10	24.1950	23.9384	24.0097
2	23:38:08	24.4796	24.4484	24.3653
3	23:39:05	24.7048	24.9313	24.7270
x		24.4598	24.4394	24.3674
σ		0.2555	0.4965	0.3586
%RSD		1.0444	2.0316	1.4718

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:34	118.61%	-0.0001	-0.0085	108.12%	0.0060	0.0510	-0.0908	0.0033
2	23:52:32	103.54%	-0.0003	0.0030	103.46%	0.0156	0.0500	-0.1399	0.0006
3	23:53:29	102.90%	-0.0016	0.0072	101.63%	0.0307	0.0485	-0.1821	0.0034
x		108.35%	-0.0007	0.0006	104.40%	0.0174	0.0498	-0.1376	0.0024
σ		8.89%	0.0008	0.0081	3.35%	0.0124	0.0013	0.0457	0.0016
%RSD		8.21	122.1564	1416.9614	3.20	71.2454	2.5593	33.2092	66.2302

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:34	-0.0035	-0.0009	0.5766	-0.1248	-0.0306	-0.0135	-0.0227	0.0691
2	23:52:32	-0.0026	0.0034	1.1793	0.1592	0.0018	-0.0168	-0.0078	0.0400
3	23:53:29	-0.0052	0.0058	0.5645	-0.2208	-0.0258	-0.0220	-0.0043	0.0111
x		-0.0038	0.0028	0.7735	-0.0621	-0.0182	-0.0174	-0.0116	0.0401
σ		0.0013	0.0034	0.3515	0.1976	0.0175	0.0043	0.0098	0.0290
%RSD		35.4054	120.8428	45.4456	317.9367	96.2406	24.6136	84.2103	72.4246

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:34	-0.0004	104.60%	0.0229	0.0680	0.1499	0.1047	0.0325	0.0222
2	23:52:32	0.0368	103.06%	0.1196	0.1598	0.0677	0.6232	0.0538	0.0584
3	23:53:29	0.0113	99.19%	0.1854	0.1685	0.3517	0.8008	0.0597	0.0646
x		0.0159	102.28%	0.1093	0.1321	0.1898	0.5095	0.0487	0.0484
σ		0.0190	2.79%	0.0817	0.0557	0.1461	0.3617	0.0143	0.0229
%RSD		119.9344	2.72	74.7632	42.1556	77.0095	70.9805	29.3683	47.3299

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:34	0.0428	102.16%	0.0045	-0.0001	0.0000	0.0008	0.0019	101.64%
2	23:52:32	0.0461	99.37%	0.0016	0.0011	0.0072	0.0058	0.0040	98.65%
3	23:53:29	0.0477	98.81%	0.0011	0.0000	0.0024	-0.0003	0.0021	97.50%
x		0.0455	100.11%	0.0024	0.0003	0.0032	0.0021	0.0026	99.26%
σ		0.0025	1.80%	0.0019	0.0006	0.0036	0.0033	0.0012	2.14%
%RSD		5.5550	1.79	77.7930	184.9642	114.2057	157.8259	43.9759	2.15

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:34	0.0038	-0.0006	0.0070	-0.0020	0.0014	95.14%	0.0000	0.0018
2	23:52:32	0.0031	-0.0006	0.0037	-0.0019	0.0011	95.67%	0.0027	0.0020
3	23:53:29	0.0016	-0.0006	-0.0071	-0.0019	0.0046	96.39%	0.0004	0.0021
x		0.0028	-0.0006	0.0012	-0.0019	0.0024	95.74%	0.0011	0.0020
σ		0.0011	0.0000	0.0074	0.0000	0.0019	0.63%	0.0015	0.0001
%RSD		39.7366	2.8100	607.3995	1.1468	81.5162	0.65	139.3717	6.8114

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:51:34	-0.0022	0.0004	-0.0009
2	23:52:32	0.0009	-0.0009	-0.0008
3	23:53:29	-0.0002	-0.0036	-0.0017
x		-0.0005	-0.0014	-0.0011
σ		0.0015	0.0021	0.0005
%RSD		312.8929	149.6120	40.3861

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:16	116.50%	-0.0011	0.8157	109.95%	0.0440	0.1558	-0.0994	0.0304
2	23:57:14	102.70%	-0.0016	0.7920	102.13%	0.0552	0.1378	-0.1291	0.0336
3	23:58:11	98.43%	-0.0002	0.7974	100.66%	0.0781	0.1104	-0.2501	0.0217
x		105.88%	-0.0010	0.8017	104.25%	0.0591	0.1347	-0.1595	0.0286
σ		9.44%	0.0007	0.0124	5.00%	0.0174	0.0228	0.0799	0.0061
%RSD		8.92	72.2140	1.5504	4.79	29.4074	16.9579	50.0554	21.5020

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:16	0.0050	0.0401	0.2557	-0.1780	0.0213	0.0523	0.0791	0.1779
2	23:57:14	0.0034	0.0166	0.5977	-0.2185	0.0236	0.0309	0.1400	0.1252
3	23:58:11	-0.0016	0.0276	-0.0024	-0.2378	0.0166	0.0145	0.1237	0.1085
x		0.0023	0.0281	0.2837	-0.2114	0.0205	0.0326	0.1143	0.1372
σ		0.0034	0.0118	0.3010	0.0305	0.0036	0.0190	0.0315	0.0362
%RSD		149.6720	41.8519	106.1170	14.4315	17.3922	58.1941	27.5752	26.4089

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:16	0.0768	104.54%	0.1439	-0.0191	-0.2274	0.5527	0.0177	0.0170
2	23:57:14	0.1103	99.87%	0.1060	-0.0608	-0.2853	0.2996	0.0186	0.0150
3	23:58:11	0.1025	100.32%	0.0419	0.0297	-0.2605	0.1993	0.0200	0.0092
x		0.0966	101.58%	0.0973	-0.0167	-0.2578	0.3505	0.0188	0.0137
σ		0.0176	2.58%	0.0516	0.0453	0.0290	0.1821	0.0012	0.0040
%RSD		18.2025	2.54	53.0042	270.6484	11.2657	51.9625	6.3079	29.2081

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:16	0.0125	101.56%	0.0005	-0.0016	0.0023	0.0020	-0.0010	100.26%
2	23:57:14	0.0122	97.50%	0.0006	0.0000	0.0000	0.0021	-0.0010	99.56%
3	23:58:11	0.0120	98.83%	0.0005	-0.0021	0.0000	0.0021	0.0010	98.74%
x		0.0122	99.30%	0.0005	-0.0012	0.0008	0.0021	-0.0003	99.52%
σ		0.0003	2.07%	0.0000	0.0011	0.0014	0.0000	0.0011	0.76%
%RSD		2.0639	2.08	6.0406	90.1884	173.2051	2.3267	380.4784	0.77

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:16	0.0038	0.0004	0.0176	0.0178	0.0181	97.21%	-0.0028	-0.0007
2	23:57:14	0.0015	0.0023	0.0353	0.0198	0.0202	98.30%	-0.0024	-0.0014
3	23:58:11	0.0008	-0.0006	0.0249	0.0399	0.0176	97.99%	-0.0015	-0.0010
x		0.0021	0.0007	0.0259	0.0258	0.0186	97.83%	-0.0023	-0.0010
σ		0.0016	0.0015	0.0089	0.0122	0.0014	0.56%	0.0007	0.0003
%RSD		77.3237	218.8454	34.2339	47.2120	7.4359	0.57	29.7972	30.0751

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	23:56:16	-0.0002	0.0010	0.0002
2	23:57:14	-0.0022	-0.0010	-0.0011
3	23:58:11	-0.0012	0.0003	-0.0005
x		-0.0012	0.0001	-0.0004
σ		0.0010	0.0010	0.0006
%RSD		81.9031	1222.3519	141.4300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:01:00	101.62%	0.0010	1.1575	102.07%	0.5014	0.2380	0.8642	1522.0696
2	00:01:58	92.26%	-0.0014	1.2048	94.39%	0.4955	0.2218	0.9317	1511.2938
3	00:02:55	90.63%	0.0029	1.2678	93.31%	0.4903	0.2218	0.9414	1576.5000
x		94.83%	0.0008	1.2100	96.59%	0.4957	0.2272	0.9124	1536.6212
σ		5.93%	0.0021	0.0553	4.77%	0.0056	0.0093	0.0421	34.9539
%RSD		6.26	263.6403	4.5710	4.94	1.1275	4.1144	4.6104	2.2747

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:01:00	3.2338	3.9757	46.5031	3.4885	1.1355	0.8547	537.6649	496.9314
2	00:01:58	3.1963	3.8754	40.4410	3.4468	1.0320	0.8509	516.5517	478.3806
3	00:02:55	3.3968	4.2155	39.3945	3.7153	1.1469	0.7654	544.5402	509.9308
x		3.2757	4.0222	42.1129	3.5502	1.1048	0.8237	532.9189	495.0809
σ		0.1066	0.1748	3.8379	0.1445	0.0633	0.0505	14.5854	15.8563
%RSD		3.2548	4.3448	9.1134	4.0702	5.7287	6.1339	2.7369	3.2028

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:01:00	530.4207	84.24%	3.4743	0.9255	0.9125	2.0633	1.1151	1.0560
2	00:01:58	520.5361	83.86%	3.4795	0.6008	-0.0693	2.4203	1.0193	1.1282
3	00:02:55	543.9572	78.79%	3.8055	0.5253	0.3962	2.9435	1.1264	1.1281
x		531.6380	82.30%	3.5865	0.6839	0.4131	2.4757	1.0869	1.1041
σ		11.7579	3.04%	0.1897	0.2126	0.4911	0.4427	0.0588	0.0416
%RSD		2.2116	3.70	5.2906	31.0899	118.8739	17.8819	5.4131	3.7711

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:01:00	1.1279	81.24%	0.0016	-0.0014	80.2876	78.1207	78.4768	84.12%
2	00:01:58	1.1685	82.05%	0.0022	-0.0008	77.3149	76.5412	76.1274	85.45%
3	00:02:55	1.0627	80.54%	0.0016	-0.0008	77.9168	78.3740	77.5130	85.14%
x		1.1197	81.28%	0.0018	-0.0010	78.5064	77.6786	77.3724	84.90%
σ		0.0534	0.75%	0.0003	0.0004	1.5716	0.9931	1.1810	0.70%
%RSD		4.7686	0.93	18.7099	37.3077	2.0018	1.2785	1.5264	0.82

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:01:00	0.1118	0.1092	116.6946	117.3396	117.7265	88.15%	0.0056	0.0076
2	00:01:58	0.1064	0.1523	117.6330	115.3317	116.0338	89.49%	0.0039	0.0080
3	00:02:55	0.1175	0.1170	118.0009	117.9997	117.9283	89.80%	-0.0000	0.0035
x		0.1119	0.1261	117.4428	116.8903	117.2295	89.15%	0.0031	0.0063
σ		0.0055	0.0229	0.6736	1.3896	1.0404	0.88%	0.0029	0.0025
%RSD		4.9465	18.1929	0.5736	1.1888	0.8875	0.98	91.7807	38.8051

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:01:00	0.0184	0.0168	0.0179
2	00:01:58	0.0159	0.0208	0.0186
3	00:02:55	0.0164	0.0186	0.0188
x		0.0169	0.0188	0.0184
σ		0.0013	0.0020	0.0005
%RSD		7.9207	10.6640	2.5774

K0911353-002 DISS 12/13/2009 12:05:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:43	104.73%	-0.0004	1.8406	109.23%	0.4917	0.2044	0.8997	1452.3974
2	00:06:40	91.71%	-0.0000	2.0273	100.87%	0.4562	0.1731	1.0133	1457.0027
3	00:07:38	100.71%	0.0049	1.8646	99.80%	0.4474	0.1496	0.9341	1472.7549
x		99.05%	0.0015	1.9108	103.30%	0.4651	0.1757	0.9490	1460.7183
σ		6.67%	0.0029	0.1016	5.17%	0.0234	0.0275	0.0582	10.6752
%RSD		6.73	195.2874	5.3157	5.00	5.0369	15.6250	6.1350	0.7308

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:43	4.0178	4.0748	42.7462	3.5974	1.1613	0.8586	516.8528	474.2239
2	00:06:40	3.8655	4.0490	38.1588	3.3158	1.1289	0.7603	522.9186	485.6152
3	00:07:38	3.8943	4.0692	42.3781	3.3141	1.1593	0.8812	516.0708	483.7684
x		3.9259	4.0643	41.0943	3.4091	1.1498	0.8334	518.6140	481.2025
σ		0.0809	0.0136	2.5489	0.1631	0.0182	0.0643	3.7483	6.1138
%RSD		2.0614	0.3341	6.2026	4.7834	1.5806	7.7154	0.7227	1.2705

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:43	507.4464	89.02%	3.4786	0.9247	0.2465	2.4294	1.1996	1.0191
2	00:06:40	511.1574	84.57%	3.3476	1.0277	0.1459	1.9317	1.1545	1.0905
3	00:07:38	511.3255	87.50%	3.4388	1.1491	0.5386	2.5718	1.1457	1.2287
x		509.9764	87.03%	3.4217	1.0339	0.3104	2.3110	1.1666	1.1127
σ		2.1927	2.26%	0.0672	0.1123	0.2040	0.3361	0.0289	0.1065
%RSD		0.4300	2.60	1.9626	10.8636	65.7200	14.5430	2.4782	9.5754

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:43	1.0783	84.46%	0.0027	-0.0002	76.1134	75.3129	74.9100	88.83%
2	00:06:40	1.0205	82.30%	0.0009	-0.0014	76.5385	75.3476	75.4803	87.48%
3	00:07:38	1.0512	84.17%	0.0027	-0.0015	75.4333	75.6094	73.7354	89.72%
x		1.0500	83.64%	0.0021	-0.0010	76.0284	75.4233	74.7086	88.67%
σ		0.0289	1.17%	0.0010	0.0007	0.5575	0.1621	0.8898	1.13%
%RSD		2.7551	1.40	48.4997	67.8208	0.7333	0.2149	1.1910	1.27

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:43	0.1999	0.2144	115.9235	112.1135	113.1822	91.18%	-0.0002	0.0016
2	00:06:40	0.2035	0.2071	115.2453	114.8596	115.3033	91.45%	0.0032	0.0012
3	00:07:38	0.1857	0.1790	113.3564	112.2810	113.7241	93.42%	0.0020	0.0004
x		0.1964	0.2001	114.8417	113.0847	114.0699	92.02%	0.0017	0.0011
σ		0.0094	0.0187	1.3303	1.5394	1.1020	1.22%	0.0017	0.0006
%RSD		4.7924	9.3353	1.1583	1.3613	0.9661	1.33	100.2660	54.4970

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:05:43	0.0171	0.0161	0.0189
2	00:06:40	0.0229	0.0217	0.0233
3	00:07:38	0.0176	0.0191	0.0195
x		0.0192	0.0190	0.0206
σ		0.0032	0.0028	0.0024
%RSD		16.6324	14.6611	11.6499

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:24	122.33%	0.0062	2.4252	114.17%	12.1729	0.3071	1.0598	636.9065
2	00:11:22	107.14%	0.0068	2.4149	107.00%	12.3463	0.3028	1.1548	641.4950
3	00:12:19	100.68%	0.0074	2.3660	102.01%	11.9924	0.2895	0.9751	617.4164
x		110.05%	0.0068	2.4020	107.73%	12.1706	0.2998	1.0632	631.9393
σ		11.11%	0.0006	0.0316	6.11%	0.1770	0.0092	0.0899	12.7848
%RSD		10.10	8.9992	1.3171	5.67	1.4539	3.0703	8.4528	2.0231

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:24	5.5559	7.8399	45.2817	7.4474	1.9615	1.7324	7298.6348	6381.5551
2	00:11:22	5.5029	7.8773	43.0628	7.1715	1.9876	1.7732	7350.6282	6458.1306
3	00:12:19	5.3436	7.2439	41.4698	7.2965	1.9134	1.7760	7291.5035	6415.7158
x		5.4675	7.6537	43.2714	7.3051	1.9542	1.7605	7313.5888	6418.4672
σ		0.1105	0.3554	1.9145	0.1382	0.0376	0.0244	32.2746	38.3618
%RSD		2.0214	4.6430	4.4244	1.8917	1.9259	1.3870	0.4413	0.5977

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:24	7089.8313	93.29%	2.0146	2.8416	2.0137	4.6672	1.2592	1.1524
2	00:11:22	7196.4762	89.31%	1.4111	3.0133	2.7608	3.0012	1.1377	1.1702
3	00:12:19	7076.5823	86.76%	1.4107	3.4879	2.8101	3.9186	1.1612	1.1892
x		7120.9633	89.79%	1.6121	3.1143	2.5282	3.8623	1.1860	1.1706
σ		65.7308	3.29%	0.3485	0.3348	0.4462	0.8345	0.0644	0.0184
%RSD		0.9231	3.67	21.6195	10.7506	17.6505	21.6051	5.4321	1.5701

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:24	1.1660	89.15%	0.0048	-0.0003	2059.3586	2097.4974	2111.4454	92.41%
2	00:11:22	1.1147	86.93%	0.0037	-0.0009	2080.6311	2096.6254	2107.2245	90.72%
3	00:12:19	1.2455	82.72%	0.0046	-0.0002	2114.8122	2147.9738	2162.4434	86.85%
x		1.1754	86.27%	0.0044	-0.0005	2084.9340	2114.0322	2127.0377	89.99%
σ		0.0659	3.27%	0.0006	0.0004	27.9761	29.3976	30.7347	2.85%
%RSD		5.6042	3.79	12.6821	80.3542	1.3418	1.3906	1.4450	3.16

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Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:24	0.2218	0.1705	55.6642	54.6979	55.0357	91.90%	0.0065	0.0064
2	00:11:22	0.1848	0.2241	55.6334	55.2202	55.1949	92.76%	0.0030	0.0057
3	00:12:19	0.1905	0.1989	57.3336	55.8143	55.9454	93.04%	0.0040	0.0059
x		0.1990	0.1978	56.2104	55.2442	55.3920	92.57%	0.0045	0.0060
σ		0.0199	0.0268	0.9729	0.5586	0.4858	0.59%	0.0018	0.0004
%RSD		10.0066	13.5464	1.7307	1.0111	0.8770	0.64	39.5800	6.1095

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:10:24	0.1046	0.1209	0.1106
2	00:11:22	0.0868	0.1128	0.1112
3	00:12:19	0.1058	0.1097	0.1141
x		0.0991	0.1144	0.1120
σ		0.0106	0.0058	0.0019
%RSD		10.7352	5.0526	1.6931

K0911353-004 DISS 12/13/2009 12:15:10 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:15:10	108.96%	0.0031	2.0321	105.44%	12.8522	0.2476	1.1707	605.1507
2	00:16:07	101.36%	0.0042	2.0342	102.66%	12.8220	0.2182	0.8815	583.7693
3	00:17:05	98.92%	0.0030	1.9777	100.67%	11.8956	0.2441	0.9213	562.0119
x		103.08%	0.0034	2.0147	102.92%	12.5233	0.2367	0.9912	583.6440
σ		5.24%	0.0006	0.0320	2.39%	0.5438	0.0160	0.1568	21.5697
%RSD		5.08	18.3640	1.5894	2.33	4.3422	6.7807	15.8155	3.6957

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:15:10	6.6161	8.0025	48.0416	7.3907	2.0718	1.9579	6114.3021	5417.9164
2	00:16:07	6.0438	7.1329	45.7617	7.2826	1.9895	1.7960	5813.8486	5166.6410
3	00:17:05	6.0651	6.6619	44.6904	6.7925	1.8799	1.7078	5637.9137	4995.9993
x		6.2417	7.2658	46.1646	7.1553	1.9804	1.8206	5855.3548	5193.5189
σ		0.3245	0.6801	1.7115	0.3187	0.0963	0.1268	240.8911	212.2388
%RSD		5.1985	9.3599	3.7075	4.4547	4.8609	6.9663	4.1140	4.0866

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:15:10	5959.1505	87.12%	1.6556	2.9810	2.6642	4.2847	1.3122	1.3336
2	00:16:07	5672.2013	86.28%	1.6739	3.2295	2.7174	4.8444	1.2131	1.2224
3	00:17:05	5465.5351	86.60%	1.6160	3.0530	2.1073	4.5800	1.1617	1.0411
x		5698.9623	86.67%	1.6485	3.0878	2.4963	4.5697	1.2290	1.1990
σ		247.8934	0.43%	0.0296	0.1279	0.3379	0.2800	0.0765	0.1476
%RSD		4.3498	0.49	1.7957	4.1411	13.5376	6.1275	6.2224	12.3099

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:15:10	1.2025	85.63%	0.0015	-0.0008	1938.3447	1961.5679	1990.1453	86.55%
2	00:16:07	1.2577	83.88%	0.0027	0.0010	1871.7552	1889.1831	1908.0804	88.29%
3	00:17:05	1.1426	85.03%	0.0044	-0.0009	1783.8626	1806.9238	1808.7069	90.59%
x		1.2009	84.85%	0.0029	-0.0002	1864.6542	1885.8916	1902.3109	88.48%
σ		0.0576	0.89%	0.0015	0.0011	77.4855	77.3746	90.8567	2.02%
%RSD		4.7957	1.05	51.8468	488.7482	4.1555	4.1028	4.7761	2.29

JB 12/17/09

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:15:10	0.2229	0.2190	59.4208	58.6539	58.3339	88.61%	0.0070	0.0042
2	00:16:07	0.2068	0.2386	57.2971	56.5988	56.7081	92.16%	0.0007	0.0031
3	00:17:05	0.2091	0.1945	53.9487	54.3914	54.0930	94.64%	0.0080	0.0015
x		0.2130	0.2174	56.8889	56.5480	56.3783	91.80%	0.0052	0.0029
σ		0.0087	0.0221	2.7588	2.1317	2.1396	3.03%	0.0039	0.0014
%RSD		4.0773	10.1516	4.8494	3.7697	3.7950	3.30	75.0621	47.1174

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:15:10	0.0977	0.1212	0.1083
2	00:16:07	0.0927	0.1219	0.1045
3	00:17:05	0.1004	0.0962	0.1024
x		0.0969	0.1131	0.1051
σ		0.0039	0.0146	0.0030
%RSD		4.0319	12.9398	2.8557

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:54	103.61%	0.0003	3.0390	101.84%	1.1696	0.2255	1.1978	82.4924
2	00:20:51	101.23%	0.0016	2.8426	100.24%	1.0751	0.2099	1.1604	78.6831
3	00:21:49	103.14%	0.0016	2.9053	101.84%	1.0993	0.2000	0.9382	77.7373
x		102.66%	0.0012	2.9289	101.31%	1.1147	0.2118	1.0988	79.6376
σ		1.26%	0.0008	0.1003	0.92%	0.0491	0.0129	0.1403	2.5171
%RSD		1.23	64.2996	3.4248	0.91	4.4015	6.0746	12.7724	3.1607

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:54	3.0122	3.3593	37.1743	2.8524	3.8336	3.5780	477.2124	440.8555
2	00:20:51	2.8363	3.0950	30.9164	2.7314	3.6960	3.4337	462.7344	434.3569
3	00:21:49	2.8569	3.0718	29.2156	2.6554	3.6751	3.2976	461.4820	432.8133
x		2.9018	3.1754	32.4354	2.7464	3.7349	3.4364	467.1429	436.0086
σ		0.0962	0.1597	4.1911	0.0994	0.0861	0.1402	8.7429	4.2679
%RSD		3.3137	5.0291	12.9214	3.6182	2.3058	4.0809	1.8716	0.9789

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:54	477.1299	90.27%	2.4264	1.8161	1.2902	2.3421	1.4640	1.5666
2	00:20:51	456.3785	89.15%	2.7298	1.7370	1.0379	2.7793	1.4661	1.6396
3	00:21:49	460.3471	89.45%	2.7150	0.8618	0.7469	2.3169	1.5401	1.4912
x		464.6185	89.62%	2.6237	1.4717	1.0250	2.4794	1.4901	1.5658
σ		11.0154	0.58%	0.1711	0.5296	0.2719	0.2600	0.0434	0.0742
%RSD		2.3708	0.65	6.5201	35.9867	26.5289	10.4853	2.9093	4.7410

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:54	1.5160	87.89%	0.0043	0.0015	34.8253	34.2028	33.8890	89.19%
2	00:20:51	1.4439	87.01%	0.0002	0.0033	33.3036	32.7050	32.4633	91.17%
3	00:21:49	1.5353	87.93%	0.0025	0.0033	33.7945	33.4105	32.5880	91.11%
x		1.4984	87.61%	0.0023	0.0027	33.9745	33.4394	32.9801	90.49%
σ		0.0482	0.52%	0.0021	0.0010	0.7766	0.7493	0.7896	1.13%
%RSD		3.2147	0.59	87.6022	37.6023	2.2859	2.2409	2.3942	1.25

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:54	0.4678	0.4665	114.4537	112.4537	113.2052	89.39%	0.0108	0.0084
2	00:20:51	0.4990	0.4458	107.2020	107.4643	108.7646	92.62%	0.0083	0.0094
3	00:21:49	0.4566	0.4267	108.5525	108.7679	109.4836	94.09%	0.0076	0.0067
x		0.4745	0.4463	110.0694	109.5620	110.4845	92.03%	0.0089	0.0082
σ		0.0220	0.0199	3.8565	2.5878	2.3835	2.40%	0.0017	0.0014
%RSD		4.6330	4.4538	3.5037	2.3619	2.1573	2.61	19.0403	16.8641

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:19:54	0.0658	0.0647	0.0672
2	00:20:51	0.0576	0.0706	0.0581
3	00:21:49	0.0603	0.0592	0.0609
x		0.0612	0.0649	0.0621
σ		0.0042	0.0057	0.0046
%RSD		6.8541	8.8065	7.4629

K0911353-006 DISS 12/13/2009 12:24:37 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:37	108.25%	-0.0016	2.9181	110.05%	1.2167	0.2319	1.6628	235.1702
2	00:25:34	105.05%	-0.0016	2.6358	104.98%	1.1414	0.2139	1.9487	241.4574
3	00:26:32	101.49%	0.0010	2.6506	103.74%	1.1908	0.2312	1.8289	240.6367
x		104.93%	-0.0007	2.7348	106.26%	1.1830	0.2257	1.8135	239.0881
σ		3.38%	0.0015	0.1589	3.35%	0.0382	0.0102	0.1436	3.4177
%RSD		3.22	203.2017	5.8091	3.15	3.2312	4.5141	7.9169	1.4295

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:37	2.9627	3.6905	52.0132	2.9475	2.0230	1.5229	76.9302	74.6518
2	00:25:34	2.9009	3.8922	48.7569	3.1468	1.9548	1.4650	74.9283	74.6635
3	00:26:32	2.9477	3.6508	42.3770	3.1812	2.1144	1.5280	77.7671	76.3915
x		2.9371	3.7445	47.7157	3.0918	2.0307	1.5053	76.5419	75.2356
σ		0.0322	0.1294	4.9018	0.1262	0.0801	0.0350	1.4587	1.0011
%RSD		1.0970	3.4565	10.2729	4.0814	3.9435	2.3241	1.9058	1.3306

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:37	78.8201	90.08%	2.9079	1.5220	0.2349	2.9960	2.7738	2.7115
2	00:25:34	76.8229	88.88%	2.9670	1.2294	0.5858	3.5405	2.8147	2.8491
3	00:26:32	81.2383	86.63%	2.9925	1.1036	0.5399	3.5760	2.7369	2.7072
x		78.9604	88.53%	2.9558	1.2850	0.4535	3.3708	2.7751	2.7559
σ		2.2110	1.75%	0.0434	0.2146	0.1907	0.3251	0.0389	0.0807
%RSD		2.8002	1.98	1.4692	16.7025	42.0562	9.6439	1.4029	2.9275

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:37	2.7187	86.05%	0.0050	-0.0003	1.0986	1.1529	1.1718	89.07%
2	00:25:34	2.6715	86.59%	0.0049	-0.0021	1.2523	1.1192	1.1325	90.41%
3	00:26:32	2.8664	85.25%	0.0038	-0.0021	1.0584	1.1605	1.1079	89.85%
x		2.7522	85.97%	0.0046	-0.0015	1.1364	1.1442	1.1374	89.78%
σ		0.1017	0.68%	0.0007	0.0011	0.1023	0.0220	0.0322	0.68%
%RSD		3.6938	0.79	14.3872	71.7717	9.0047	1.9230	2.8353	0.75

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:37	0.3398	0.3370	123.8006	122.7836	124.0265	90.30%	0.0038	0.0027
2	00:25:34	0.3118	0.3232	124.9841	122.9995	124.1693	91.68%	0.0012	0.0023
3	00:26:32	0.3056	0.3376	124.7369	124.2801	124.7983	92.70%	0.0007	0.0017
x		0.3191	0.3326	124.5072	123.3544	124.3314	91.56%	0.0019	0.0022
σ		0.0182	0.0081	0.6243	0.8089	0.4107	1.21%	0.0017	0.0005
%RSD		5.7079	2.4490	0.5014	0.6558	0.3303	1.32	86.8706	23.1677

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:24:37	0.0920	0.0896	0.0895
2	00:25:34	0.0858	0.0889	0.0907
3	00:26:32	0.0790	0.0983	0.0902
x		0.0856	0.0923	0.0902
σ		0.0065	0.0052	0.0006
%RSD		7.5832	5.6499	0.6519

K0911353-007 DISS 12/13/2009 12:29:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:21	132.61%	-0.0018	0.7505	114.74%	0.0607	0.2112	0.1464	0.6921
2	00:30:18	115.70%	-0.0000	0.7872	107.00%	0.0348	0.2149	0.1274	0.7326
3	00:31:16	102.99%	-0.0016	0.8401	103.69%	0.0797	0.1945	0.0617	0.8283
x		117.10%	-0.0011	0.7926	108.48%	0.0584	0.2069	0.1118	0.7510
σ		14.86%	0.0010	0.0450	5.67%	0.0226	0.0109	0.0445	0.0699
%RSD		12.69	86.7793	5.6838	5.23	38.6457	5.2543	39.7631	9.3126

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:21	0.3230	0.0586	0.5395	0.2905	0.1129	0.0956	0.5631	0.7630
2	00:30:18	0.2973	0.0493	0.6492	0.2150	0.0986	0.1205	0.7197	0.8302
3	00:31:16	0.3125	0.0757	0.6438	0.2176	0.0845	0.0779	0.7386	0.6653
x		0.3110	0.0612	0.6108	0.2410	0.0986	0.0980	0.6738	0.7528
σ		0.0129	0.0134	0.0619	0.0429	0.0142	0.0214	0.0963	0.0830
%RSD		4.1522	21.9382	10.1274	17.7907	14.4030	21.8206	14.2948	11.0201

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:21	0.6140	107.06%	-0.1983	0.1495	0.3997	-0.6113	0.0643	0.0609
2	00:30:18	0.6819	103.17%	-0.0162	0.0704	0.0134	0.0384	0.0397	0.0414
3	00:31:16	0.8999	102.25%	0.1018	-0.0176	0.0434	0.3626	0.0362	0.0305
x		0.7319	104.16%	-0.0375	0.0674	0.1522	-0.0701	0.0467	0.0443
σ		0.1494	2.55%	0.1512	0.0836	0.2149	0.4959	0.0153	0.0154
%RSD		20.4105	2.45	402.6839	123.9078	141.2068	707.7078	32.7588	34.8434

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:21	0.0458	104.18%	-0.0010	-0.0006	0.0046	0.0031	0.0038	102.23%
2	00:30:18	0.0485	100.86%	0.0010	-0.0011	0.0117	0.0153	0.0270	100.76%
3	00:31:16	0.0329	101.63%	-0.0005	-0.0016	0.0305	0.0359	0.0417	100.21%
x		0.0424	102.23%	-0.0002	-0.0011	0.0156	0.0181	0.0242	101.06%
σ		0.0083	1.74%	0.0011	0.0005	0.0134	0.0166	0.0191	1.05%
%RSD		19.6246	1.70	580.2016	45.1633	85.7767	91.6350	79.1612	1.04

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:29:21	0.0295	0.0374	0.0420	0.0295	0.0265	95.25%	-0.0037	-0.0048
2	00:30:18	0.0351	0.0417	0.0527	0.0671	0.0508	97.00%	-0.0033	-0.0037
3	00:31:16	0.0276	0.0281	0.0776	0.0673	0.0683	97.22%	-0.0055	-0.0022
x		0.0307	0.0357	0.0575	0.0546	0.0486	96.49%	-0.0042	-0.0036
σ		0.0039	0.0070	0.0183	0.0217	0.0210	1.08%	0.0012	0.0013
%RSD		12.7379	19.5422	31.7689	39.7849	43.2569	1.12	29.1193	35.9718

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:29:21	0.0045	0.0065	0.0082
2	00:30:18	0.0088	0.0043	0.0074
3	00:31:16	0.0098	0.0188	0.0130
x		0.0077	0.0099	0.0095
σ		0.0028	0.0078	0.0030
%RSD		36.8258	79.2507	31.4585

K0911373-001 12/13/2009 12:34:07 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:34:07	115.06%	0.0112	477.6056	111.42%	3.3580	0.7877	0.5798	19.6217
2	00:35:04	108.38%	0.0145	471.9571	106.97%	3.2795	0.7241	0.6664	19.5027
3	00:36:02	102.30%	0.0117	469.1449	104.96%	3.2699	0.7222	0.6337	19.3976
x		108.58%	0.0124	472.9025	107.78%	3.3024	0.7447	0.6266	19.5073
σ		6.38%	0.0018	4.3089	3.31%	0.0483	0.0373	0.0437	0.1121
%RSD		5.88	14.0824	0.9112	3.07	1.4633	5.0108	6.9802	0.5749

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:34:07	0.4866	0.8205	3.1488	1.2424	3.2526	3.2460	42.0594	38.6400
2	00:35:04	0.4622	0.8577	2.4091	0.9678	3.1238	3.1140	41.8001	37.8735
3	00:36:02	0.4735	0.8705	1.1991	1.0410	3.1725	3.0947	40.3980	37.9836
x		0.4741	0.8496	2.2524	1.0837	3.1830	3.1515	41.4192	38.1657
σ		0.0122	0.0260	0.9843	0.1422	0.0650	0.0824	0.8938	0.4144
%RSD		2.5731	3.0611	43.7000	13.1229	2.0428	2.6133	2.1580	1.0859

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:34:07	40.5675	104.02%	0.4356	0.0253	-0.0056	0.4575	0.4049	0.3141
2	00:35:04	40.1916	102.63%	0.5195	-0.0173	0.0968	0.8215	0.3652	0.3233
3	00:36:02	40.0136	101.01%	0.5353	0.1646	-0.1332	0.7284	0.3699	0.3628
x		40.2575	102.56%	0.4968	0.0575	-0.0140	0.6691	0.3800	0.3334
σ		0.2828	1.50%	0.0536	0.0951	0.1152	0.1891	0.0217	0.0259
%RSD		0.7024	1.47	10.7933	165.4121	821.9035	28.2604	5.7160	7.7553

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:34:07	0.4077	100.82%	0.0249	0.0230	0.0311	0.0493	0.0340	97.32%
2	00:35:04	0.3921	98.65%	0.0308	0.0299	0.0237	0.0437	0.0371	99.83%
3	00:36:02	0.3887	98.71%	0.0379	0.0303	0.0313	0.0246	0.0320	97.40%
x		0.3962	99.39%	0.0312	0.0278	0.0287	0.0392	0.0344	98.19%
σ		0.0101	1.24%	0.0065	0.0041	0.0043	0.0129	0.0026	1.43%
%RSD		2.5508	1.24	20.8386	14.7694	15.1172	33.0345	7.4857	1.46

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:34:07	0.1920	0.2111	6.7562	7.1109	7.0541	94.96%	0.0019	-0.0000
2	00:35:04	0.1880	0.2039	6.7816	6.9868	6.9296	97.06%	-0.0028	-0.0013
3	00:36:02	0.2008	0.1879	6.9206	6.9734	7.0386	97.28%	0.0017	-0.0013
x		0.1936	0.2010	6.8195	7.0237	7.0074	96.44%	0.0003	-0.0009
σ		0.0066	0.0118	0.0885	0.0758	0.0679	1.28%	0.0027	0.0007
%RSD		3.3943	5.8937	1.2979	1.0795	0.9684	1.33	1057.4574	81.9913

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:34:07	1.4182	1.5463	1.5371
2	00:35:04	1.4424	1.5724	1.5158
3	00:36:02	1.3962	1.6858	1.5506
x		1.4189	1.6015	1.5345
σ		0.0231	0.0741	0.0175
%RSD		1.6289	4.6300	1.1432

K0911373-002 12/13/2009 12:38:50 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:38:50	114.01%	0.0006	19.6179	111.32%	1.5382	0.4849	0.4809	5.1876
2	00:39:48	109.32%	-0.0022	18.7338	105.05%	1.6460	0.5148	0.2333	5.2918
3	00:40:46	100.68%	0.0030	19.8555	99.46%	1.6699	0.5351	0.3220	5.4211
x		108.01%	0.0004	19.4024	105.28%	1.6180	0.5116	0.3454	5.3002
σ		6.76%	0.0026	0.5911	5.93%	0.0702	0.0252	0.1254	0.1170
%RSD		6.26	587.4500	3.0464	5.63	4.3357	4.9294	36.3100	2.2078

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:38:50	0.0610	0.4389	2.5184	0.5373	1.3358	1.4407	33.6563	32.0274
2	00:39:48	0.0505	0.3834	1.1591	0.4593	1.3073	1.3116	32.8310	29.7725
3	00:40:46	0.0538	0.4474	1.7294	0.4124	1.4181	1.4490	34.8979	33.2749
x		0.0551	0.4232	1.8023	0.4697	1.3537	1.4004	33.7951	31.6916
σ		0.0054	0.0348	0.6826	0.0631	0.0575	0.0770	1.0404	1.7752
%RSD		9.7641	8.2135	37.8737	13.4370	4.2499	5.5004	3.0786	5.6014

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:38:50	33.3346	104.71%	0.1746	-0.0628	-0.0491	-0.3766	0.4875	0.4536
2	00:39:48	32.4251	100.63%	0.5062	0.2553	-0.3295	0.8267	0.4643	0.4585
3	00:40:46	34.5097	96.27%	0.3035	0.0353	0.1028	0.0942	0.5030	0.4734
x		33.4232	100.54%	0.3281	0.0759	-0.0919	0.1814	0.4849	0.4618
σ		1.0451	4.22%	0.1672	0.1629	0.2193	0.6064	0.0195	0.0103
%RSD		3.1269	4.20	50.9525	214.6203	238.5302	334.2102	4.0208	2.2402

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:38:50	0.4438	100.92%	0.0036	0.0026	0.0165	0.0167	0.0225	99.48%
2	00:39:48	0.4405	99.76%	0.0036	0.0043	0.0119	0.0217	0.0167	99.39%
3	00:40:46	0.4801	95.49%	0.0006	0.0046	0.0100	0.0216	0.0145	94.39%
x		0.4548	98.72%	0.0026	0.0038	0.0128	0.0200	0.0179	97.76%
σ		0.0220	2.86%	0.0017	0.0011	0.0034	0.0029	0.0041	2.91%
%RSD		4.8354	2.90	65.8966	27.5722	26.4306	14.2897	22.9910	2.98

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:38:50	0.1400	0.1579	2.8233	2.9047	2.8967	96.04%	-0.0041	-0.0031
2	00:39:48	0.1577	0.1338	3.0061	2.9424	2.8860	97.44%	-0.0019	-0.0039
3	00:40:46	0.1723	0.1501	3.1091	3.1585	3.0329	94.26%	-0.0036	-0.0030
x		0.1567	0.1473	2.9795	3.0019	2.9385	95.91%	-0.0032	-0.0033
σ		0.0162	0.0123	0.1447	0.1369	0.0819	1.59%	0.0012	0.0005
%RSD		10.3160	8.3435	4.8581	4.5620	2.7869	1.66	35.7568	14.0394

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:38:50	0.0589	0.0680	0.0540
2	00:39:48	0.0570	0.0537	0.0564
3	00:40:46	0.0493	0.0366	0.0489
x		0.0551	0.0528	0.0531
σ		0.0051	0.0157	0.0038
%RSD		9.2304	29.7562	7.1735

CCV7 12/13/2009 12:43:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:43:33	117.31%	25.7341	25.4725	109.06%	26.1382	25.7087	25.4406	25.8333
2	00:44:30	109.30%	25.0309	25.3000	104.59%	25.3875	25.2180	25.1697	25.5417
3	00:45:28	106.33%	24.7695	24.3968	103.45%	24.8305	24.8936	25.0749	24.8883
x		110.98%	25.1782	25.0564	105.70%	25.4521	25.2734	25.2284	25.4211
σ		5.68%	0.4989	0.5777	2.96%	0.6562	0.4104	0.1898	0.4839
%RSD		5.12	1.9815	2.3058	2.80	2.5783	1.6237	0.7522	1.9036

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:43:33	26.0710	26.0810	26.4887	25.6910	26.3395	26.0084	24.7269	25.1063
2	00:44:30	25.4034	25.4862	27.1333	25.7075	25.3718	24.7116	25.1889	23.2479
3	00:45:28	24.9641	24.9068	23.7071	24.3903	24.7191	24.3627	24.3294	24.2067
x		25.4795	25.4913	25.7764	25.2629	25.4768	25.0275	24.7484	24.1870
σ		0.5573	0.5871	1.8208	0.7557	0.8153	0.8671	0.4302	0.9293
%RSD		2.1874	2.3032	7.0638	2.9915	3.2002	3.4648	1.7381	3.8422

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:43:33	25.3726	105.13%	25.6109	27.5198	26.6302	27.0195	24.6043	25.2561
2	00:44:30	25.5694	100.35%	25.9192	27.4908	25.6352	26.2547	25.7051	26.0597
3	00:45:28	24.2586	101.18%	24.6885	23.5736	24.4783	24.6694	25.7131	25.9030
x		25.0669	102.22%	25.4062	26.1947	25.5812	25.9812	25.3408	25.7396
σ		0.7068	2.55%	0.6404	2.2700	1.0770	1.1987	0.6378	0.4260
%RSD		2.8198	2.50	2.5207	8.6660	4.2100	4.6138	2.5170	1.6550

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:43:33	24.9674	102.47%	25.5688	25.7766	24.9215	24.6134	24.9561	99.23%
2	00:44:30	25.8776	98.28%	25.8390	25.4507	25.4100	25.3779	25.2080	97.83%
3	00:45:28	25.0803	98.95%	25.8303	25.4775	25.1465	24.9779	24.8356	98.06%
x		25.3084	99.90%	25.7461	25.5683	25.1593	24.9897	24.9999	98.37%
σ		0.4962	2.25%	0.1535	0.1809	0.2445	0.3824	0.1900	0.75%
%RSD		1.9604	2.25	0.5964	0.7076	0.9717	1.5303	0.7600	0.76

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:43:33	25.0584	24.8862	25.4320	25.3968	25.6514	94.92%	25.2746	25.3422
2	00:44:30	25.1560	25.2968	25.5284	25.5889	25.4921	96.02%	25.6278	25.4750
3	00:45:28	25.1778	25.1815	25.9128	25.0040	25.4400	97.13%	25.3946	25.2237
x		25.1307	25.1215	25.6244	25.3299	25.5278	96.03%	25.4323	25.3470
σ		0.0636	0.2118	0.2543	0.2981	0.1102	1.10%	0.1796	0.1257
%RSD		0.2530	0.8431	0.9926	1.1770	0.4316	1.15	0.7062	0.4959

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:43:33	25.0724	24.9696	24.9628
2	00:44:30	25.2154	25.1696	25.1503
3	00:45:28	24.9687	24.6853	24.8521
x		25.0855	24.9415	24.9884
σ		0.1239	0.2434	0.1507
%RSD		0.4938	0.9758	0.6032

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:30	123.73%	0.0003	-0.0055	113.78%	0.0183	0.0254	-0.1745	0.0070
2	00:58:28	116.20%	-0.0023	-0.0154	106.41%	0.0439	0.0244	-0.2259	0.0064
3	00:59:25	106.80%	-0.0016	0.0262	104.17%	0.0225	0.0854	-0.1361	0.0053
x		115.58%	-0.0012	0.0017	108.12%	0.0283	0.0451	-0.1788	0.0062
σ		8.48%	0.0013	0.0217	5.03%	0.0137	0.0349	0.0450	0.0009
%RSD		7.34	114.7674	1244.1129	4.65	48.4764	77.4716	25.1826	14.4624

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:30	-0.0032	0.0050	0.3932	-0.1838	-0.0283	-0.0123	-0.0387	0.0183
2	00:58:28	-0.0000	0.0054	0.5073	-0.2392	-0.0321	-0.0134	-0.0143	0.0072
3	00:59:25	-0.0021	-0.0029	-0.2695	-0.1598	-0.0283	-0.0185	-0.0151	0.0407
x		-0.0018	0.0025	0.2104	-0.1943	-0.0296	-0.0147	-0.0227	0.0221
σ		0.0016	0.0047	0.4194	0.0407	0.0022	0.0033	0.0138	0.0171
%RSD		91.1513	188.6816	199.3892	20.9586	7.4864	22.3677	60.8258	77.3294

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:30	-0.0037	109.15%	-0.0010	-0.0228	-0.5004	0.0482	0.0585	0.0162
2	00:58:28	0.0248	104.11%	0.0251	0.0249	-0.2201	0.1361	0.0343	0.0383
3	00:59:25	0.0159	102.19%	0.2232	-0.0172	-0.0838	0.8535	0.0384	0.0664
x		0.0123	105.15%	0.0825	-0.0050	-0.2681	0.3459	0.0437	0.0403
σ		0.0146	3.59%	0.1226	0.0261	0.2124	0.4417	0.0130	0.0251
%RSD		118.4816	3.42	148.6648	519.8258	79.2276	127.6977	29.6408	62.3261

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:30	0.0372	105.59%	-0.0001	-0.0001	0.0023	0.0031	-0.0010	102.47%
2	00:58:28	0.0541	101.86%	0.0005	-0.0006	0.0000	-0.0004	-0.0010	99.37%
3	00:59:25	0.0428	100.01%	0.0010	0.0005	0.0000	0.0021	0.0050	98.81%
x		0.0447	102.49%	0.0005	-0.0001	0.0008	0.0016	0.0010	100.22%
σ		0.0086	2.84%	0.0006	0.0006	0.0013	0.0018	0.0034	1.97%
%RSD		19.2677	2.77	112.2083	1008.7951	173.2051	112.3927	341.5906	1.97

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:30	0.0037	-0.0016	0.0069	-0.0020	0.0016	96.51%	0.0027	0.0043
2	00:58:28	0.0023	-0.0006	0.0036	0.0140	0.0017	96.59%	0.0058	-0.0005
3	00:59:25	0.0016	-0.0016	0.0179	-0.0019	0.0033	96.82%	0.0008	0.0002
x		0.0025	-0.0013	0.0095	0.0034	0.0022	96.64%	0.0031	0.0013
σ		0.0011	0.0006	0.0075	0.0092	0.0009	0.16%	0.0025	0.0026
%RSD		43.5825	44.5463	79.2036	273.8228	42.2048	0.17	81.7559	195.8677

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	00:57:30	-0.0032	-0.0016	-0.0017
2	00:58:28	-0.0007	0.0024	-0.0006
3	00:59:25	-0.0017	-0.0010	-0.0013
x		-0.0019	-0.0001	-0.0012
σ		0.0013	0.0021	0.0006
%RSD		67.6628	2458.7739	47.0461

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:18:34	119.82%	20.5198	21.1959	126.51%	27.3491	19.9342	20.5953	14349.9850
2	02:19:31	107.36%	20.4587	22.0630	116.74%	28.4109	20.5376	20.5076	14873.0500
3	02:20:29	101.33%	21.0390	22.5728	116.19%	28.4492	20.5817	20.6820	14719.8150
x		109.50%	20.6725	21.9439	119.81%	28.0697	20.3512	20.5950	14647.6170
σ		9.43%	0.3189	0.6962	5.81%	0.6244	0.3618	0.0872	268.9031
%RSD		8.61	1.5426	3.1725	4.85	2.2244	1.7776	0.4234	1.8358

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:18:34	24.9460	20.8973	67.7259	23.1821	19.5302	19.3072	17.9087	23.9136
2	02:19:31	25.0172	21.7638	62.0392	23.2520	20.2032	19.5839	18.8863	22.4834
3	02:20:29	25.1057	21.5667	68.1966	23.4300	20.5402	19.8877	19.0648	24.0050
x		25.0230	21.4093	65.9873	23.2880	20.0912	19.5929	18.6199	23.4673
σ		0.0800	0.4542	3.4272	0.1278	0.5143	0.2904	0.6224	0.8533
%RSD		0.3197	2.1215	5.1937	0.5489	2.5596	1.4819	3.3427	3.6362

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:18:34	22.3643	99.60%	36.6709	20.6849	22.1181	20.6261	2225.7083	2250.6222
2	02:19:31	22.4898	93.68%	37.3582	22.3119	23.4839	23.6324	2326.4079	2339.3768
3	02:20:29	23.6394	93.32%	37.7896	24.2061	21.8053	23.5415	2292.8115	2312.9352
x		22.8312	95.53%	37.2729	22.4010	22.4691	22.6000	2281.6426	2300.9781
σ		0.7027	3.52%	0.5642	1.7623	0.8926	1.7101	51.2705	45.5694
%RSD		3.0780	3.69	1.5137	7.8670	3.9727	7.5666	2.2471	1.9804

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:18:34	2273.8806	89.28%	9.3740	9.1378	21.3792	21.0167	21.1241	92.10%
2	02:19:31	2393.5416	85.51%	9.4159	9.3441	21.9534	21.9750	21.3447	88.46%
3	02:20:29	2372.6008	87.39%	9.3241	9.2999	21.3560	21.2422	21.1999	89.78%
x		2346.6743	87.39%	9.3713	9.2606	21.5629	21.4113	21.2229	90.12%
σ		63.9048	1.89%	0.0460	0.1086	0.3384	0.5011	0.1120	1.84%
%RSD		2.7232	2.16	0.4906	1.1730	1.5695	2.3402	0.5280	2.04

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:18:34	20.5598	20.2796	168.7133	167.9018	168.8279	88.68%	20.4675	20.3545
2	02:19:31	21.1955	21.5938	170.6950	171.2959	174.0248	87.41%	20.5631	20.6249
3	02:20:29	21.2110	21.0968	174.2831	171.6699	173.3168	87.41%	21.0562	20.8440
x		20.9888	20.9901	171.2305	170.2892	172.0565	87.83%	20.6956	20.6078
σ		0.3715	0.6636	2.8232	2.0760	2.8184	0.73%	0.3159	0.2452
%RSD		1.7702	3.1615	1.6488	1.2191	1.6381	0.84	1.5264	1.1898

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:18:34	19.1074	19.1601	19.2095
2	02:19:31	19.5123	19.9101	19.7261
3	02:20:29	19.9022	19.8444	19.8434
x		19.5073	19.6382	19.5930
σ		0.3974	0.4154	0.3372
%RSD		2.0371	2.1151	1.7211

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:47	125.70%	20.2514	21.3533	130.71%	27.3841	19.2057	19.3464	14679.5750
2	02:24:45	108.40%	19.7112	21.6227	113.26%	28.2514	19.9963	20.1236	15322.8870
3	02:25:42	111.25%	19.6463	21.9447	115.89%	27.9424	20.3315	20.5991	15589.6440
x		115.12%	19.8697	21.6403	119.95%	27.8593	19.8445	20.0230	15197.3690
σ		9.28%	0.3322	0.2961	9.41%	0.4396	0.5780	0.6324	467.8381
%RSD		8.06	1.6720	1.3681	7.84	1.5779	2.9128	3.1584	3.0784

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:47	24.3325	20.8462	72.1710	22.2077	19.0783	18.4121	17.8544	23.4599
2	02:24:45	24.8750	21.3635	70.6218	22.5608	19.3333	18.6962	18.3468	23.3508
3	02:25:42	25.5846	21.4901	64.3377	22.9233	19.6724	18.8012	18.9523	23.2948
x		24.9307	21.2333	69.0435	22.5639	19.3613	18.6365	18.3845	23.3685
σ		0.6279	0.3411	4.1483	0.3578	0.2980	0.2013	0.5499	0.0839
%RSD		2.5186	1.6065	6.0083	1.5856	1.5393	1.0803	2.9911	0.3591

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:47	21.4031	100.86%	36.0360	21.5448	21.1879	20.9776	2322.7802	2343.4516
2	02:24:45	22.6600	90.97%	37.9471	20.9269	21.3535	22.8535	2409.5318	2426.4509
3	02:25:42	22.8327	92.08%	38.3533	19.7860	20.9188	23.4046	2509.0150	2504.1479
x		22.2986	94.64%	37.4455	20.7526	21.1534	22.4119	2413.7756	2424.6835
σ		0.7803	5.42%	1.2374	0.8923	0.2194	1.2723	93.1899	80.3627
%RSD		3.4994	5.73	3.3045	4.2996	1.0372	5.6769	3.8608	3.3144

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:47	2399.5058	90.09%	18.8770	18.6059	20.4202	19.4757	19.8355	90.56%
2	02:24:45	2466.8694	85.45%	19.2850	19.0721	20.9654	20.3329	20.3899	85.52%
3	02:25:42	2554.3008	84.07%	19.5021	19.3210	21.4585	20.4198	20.7000	86.40%
x		2473.5587	86.54%	19.2213	18.9996	20.9480	20.0761	20.3084	87.49%
σ		77.6140	3.15%	0.3174	0.3630	0.5193	0.5218	0.4380	2.69%
%RSD		3.1377	3.65	1.6512	1.9106	2.4791	2.5990	2.1565	3.08

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:23:47	19.6394	19.9190	176.1316	174.9128	176.5845	86.81%	19.2947	19.1504
2	02:24:45	20.6918	20.4968	180.1205	178.6319	180.4002	85.15%	19.8769	19.5802
3	02:25:42	20.2265	20.4843	183.4776	180.0701	182.7845	84.45%	19.8886	19.9601
x		20.1859	20.3000	179.9099	177.8716	179.9230	85.47%	19.6867	19.5636
σ		0.5274	0.3300	3.6776	2.6614	3.1274	1.21%	0.3396	0.4051
%RSD		2.6128	1.6258	2.0441	1.4962	1.7382	1.42	1.7250	2.0708

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:23:47	18.0993	18.3540	18.2422
2	02:24:45	18.8187	18.7504	18.7852
3	02:25:42	19.0667	19.0662	19.1254
x		18.6616	18.7235	18.7176
σ		0.5025	0.3569	0.4455
%RSD		2.6927	1.9059	2.3800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:13	136.50%	-0.0009	0.2274	120.82%	0.0643	0.1420	-0.2875	0.5538
2	02:30:10	124.71%	0.0040	0.3707	113.84%	0.0440	0.1203	-0.2438	3.5829
3	02:31:08	119.14%	0.0032	0.3796	112.43%	0.0600	0.0998	-0.2817	2.8886
x		126.78%	0.0021	0.3259	115.70%	0.0561	0.1207	-0.2710	2.3418
σ		8.86%	0.0026	0.0854	4.49%	0.0107	0.0211	0.0238	1.5868
%RSD		6.99	125.7854	26.1964	3.88	19.0642	17.4781	8.7650	67.7631

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Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:13	-0.0030	0.0027	0.3386	0.8640	0.0614	-0.0066	-0.0605	0.0002
2	02:30:10	0.0013	0.0109	1.2566	1.1376	0.0360	0.0096	-0.0010	0.0191
3	02:31:08	0.0002	0.0092	-0.0262	1.0458	0.0472	0.0018	-0.0337	0.0524
x		-0.0005	0.0076	0.5230	1.0158	0.0482	0.0016	-0.0317	0.0239
σ		0.0022	0.0043	0.6610	0.1393	0.0127	0.0081	0.0298	0.0264
%RSD		473.0704	56.9865	126.3815	13.7085	26.4309	500.9467	93.7933	110.6322

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:13	-0.0133	113.69%	0.1378	0.0148	0.0993	0.5302	19.0104	19.8655
2	02:30:10	0.0208	108.00%	-0.0670	0.0203	-0.0293	-0.2005	16.1524	16.8362
3	02:31:08	0.0129	105.03%	0.1552	0.0671	-0.2059	0.6450	13.3800	14.0426
x		0.0068	108.91%	0.0753	0.0341	-0.0453	0.3249	16.1809	16.9148
σ		0.0178	4.40%	0.1236	0.0288	0.1532	0.4586	2.8153	2.9123
%RSD		263.0089	4.04	164.0491	84.4114	338.2083	141.1495	17.3991	17.2172

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:13	18.9233	106.73%	0.0038	0.0009	0.0090	0.0030	0.0130	103.85%
2	02:30:10	16.1938	105.44%	0.0039	0.0020	0.0299	0.0055	0.0096	100.96%
3	02:31:08	13.8331	103.07%	0.0040	0.0041	0.0186	0.0140	0.0019	100.97%
x		16.3167	105.08%	0.0039	0.0023	0.0192	0.0075	0.0082	101.93%
σ		2.5473	1.86%	0.0001	0.0016	0.0105	0.0057	0.0057	1.66%
%RSD		15.6117	1.77	2.2721	71.5497	54.6819	76.6652	69.5871	1.63

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:13	0.0022	0.0022	0.0138	0.0117	0.0080	94.19%	0.0001	0.0015
2	02:30:10	0.0069	0.0043	0.0352	0.0415	0.0375	96.40%	0.0004	0.0032
3	02:31:08	0.0038	0.0013	0.0386	0.0316	0.0317	96.77%	0.0008	0.0019
x		0.0043	0.0026	0.0292	0.0283	0.0257	95.78%	0.0004	0.0022
σ		0.0024	0.0015	0.0134	0.0152	0.0157	1.40%	0.0004	0.0009
%RSD		55.0126	57.9539	45.9601	53.6055	60.8887	1.46	82.4931	40.2617

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:29:13	-0.0011	-0.0002	-0.0005
2	02:30:10	0.0028	0.0057	0.0024
3	02:31:08	0.0008	-0.0003	0.0016
x		0.0008	0.0017	0.0012
σ		0.0020	0.0034	0.0015
%RSD		233.1382	199.2619	126.5964

LCSW K0911290 12/13/2009 02:34:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:34:03	122.72%	20.1975	20.0102	111.02%	20.0872	20.1730	19.9985	20.0952
2	02:35:00	109.01%	20.9250	20.3675	104.25%	19.6362	20.0110	20.3269	20.8919
3	02:35:57	107.78%	20.2162	19.7847	103.97%	20.0601	20.2456	20.0309	20.3030
x		113.17%	20.4462	20.0541	106.41%	19.9278	20.1432	20.1188	20.4301
σ		8.29%	0.4147	0.2939	3.99%	0.2530	0.1201	0.1810	0.4133
%RSD		7.33	2.0284	1.4655	3.75	1.2694	0.5963	0.8997	2.0228

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:34:03	20.4386	20.6866	21.0203	22.0798	20.2726	20.0276	19.5554	18.8871
2	02:35:00	20.4296	20.3415	19.0654	21.5958	20.6169	20.2591	19.5084	19.1399
3	02:35:57	20.1543	19.9151	20.9654	21.0355	20.0675	19.6451	19.3388	18.8649
x		20.3408	20.3144	20.3504	21.5704	20.3190	19.9772	19.4676	18.9639
σ		0.1616	0.3864	1.1131	0.5226	0.2776	0.3101	0.1139	0.1527
%RSD		0.7946	1.9023	5.4698	2.4227	1.3663	1.5521	0.5853	0.8055

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:34:03	19.5449	105.78%	19.8140	19.2763	19.6453	19.2243	23.8559	24.2560
2	02:35:00	19.6342	102.19%	19.2293	19.7362	19.8350	19.5407	24.3900	24.5125
3	02:35:57	19.1735	100.12%	20.3010	18.5946	19.4479	19.4008	24.7013	25.4503
x		19.4508	102.70%	19.7814	19.2024	19.6427	19.3886	24.3157	24.7396
σ		0.2443	2.86%	0.5366	0.5744	0.1936	0.1586	0.4276	0.6287
%RSD		1.2560	2.79	2.7125	2.9911	0.9855	0.8180	1.7585	2.5412

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:34:03	23.6601	101.96%	20.0835	20.2328	19.6164	19.7905	19.7345	99.68%
2	02:35:00	24.5484	100.75%	20.0993	19.9386	19.4090	19.3769	19.4594	99.31%
3	02:35:57	24.3828	98.82%	20.1109	19.7602	19.4182	19.2170	19.6544	98.34%
x		24.1971	100.51%	20.0979	19.9772	19.4812	19.4615	19.6161	99.11%
σ		0.4723	1.58%	0.0137	0.2386	0.1172	0.2959	0.1415	0.69%
%RSD		1.9520	1.57	0.0683	1.1945	0.6015	1.5207	0.7212	0.70

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:34:03	19.6776	19.5759	20.2863	19.6998	20.0885	94.45%	20.4865	20.2324
2	02:35:00	19.4962	19.5752	19.9823	20.2270	19.8847	95.27%	20.2366	20.3921
3	02:35:57	19.5788	19.3760	19.8561	19.7061	19.9099	95.79%	20.2823	20.2272
x		19.5842	19.5090	20.0416	19.8777	19.9611	95.17%	20.3351	20.2839
σ		0.0908	0.1152	0.2212	0.3026	0.1111	0.68%	0.1331	0.0937
%RSD		0.4638	0.5906	1.1035	1.5222	0.5567	0.71	0.6543	0.4621

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:34:03	19.5142	19.5890	19.5162
2	02:35:00	19.6283	19.6705	19.6485
3	02:35:57	19.5776	19.7559	19.5890
x		19.5734	19.6718	19.5846
σ		0.0572	0.0835	0.0663
%RSD		0.2920	0.4244	0.3383

K0911290-001 12/13/2009 02:39:27 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:39:27	125.28%	0.0081	1.9749	114.06%	1.9083	0.4575	0.2450	188.8720
2	02:40:25	115.86%	0.0095	1.8921	104.35%	1.9453	0.4802	0.2860	191.0508
3	02:41:22	107.90%	0.0080	1.7936	101.33%	1.8077	0.4516	0.3748	194.6980
x		116.35%	0.0085	1.8868	106.58%	1.8871	0.4631	0.3019	191.5403
σ		8.70%	0.0009	0.0908	6.65%	0.0712	0.0151	0.0663	2.9437
%RSD		7.48	10.1402	4.8098	6.24	3.7730	3.2587	21.9642	1.5369

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:39:27	0.6619	5.9455	26.2513	6.7070	0.3383	0.1591	0.3324	4.0820
2	02:40:25	0.6650	5.9953	22.0494	6.8418	0.2947	0.1222	0.3454	4.3313
3	02:41:22	0.6554	5.6919	20.5972	6.3821	0.3406	0.1282	0.2939	4.0019
x		0.6608	5.8776	22.9660	6.6436	0.3245	0.1365	0.3239	4.1384
σ		0.0049	0.1627	2.9364	0.2363	0.0259	0.0198	0.0268	0.1718
%RSD		0.7417	2.7680	12.7857	3.5568	7.9678	14.4999	8.2749	4.1503

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:39:27	3.0704	94.20%	0.8474	0.3800	0.0760	1.6604	126.7406	128.0015
2	02:40:25	3.1894	88.44%	0.7965	0.2034	0.0885	1.4044	129.5614	130.3455
3	02:41:22	2.7197	86.19%	0.4090	0.3679	0.5286	0.2697	126.9767	130.9640
x		2.9932	89.61%	0.6843	0.3171	0.2310	1.1115	127.7596	129.7703
σ		0.2442	4.13%	0.2398	0.0987	0.2578	0.7402	1.5649	1.5628
%RSD		8.1579	4.61	35.0360	31.1106	111.5949	66.5940	1.2249	1.2042

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:39:27	126.0254	90.11%	0.0065	0.0020	0.0787	0.0486	0.0630	89.88%
2	02:40:25	128.2696	85.97%	0.0074	0.0077	0.1109	0.0627	0.0780	87.82%
3	02:41:22	129.1489	86.22%	0.0062	0.0028	0.1164	0.0572	0.0637	87.63%
x		127.8146	87.43%	0.0067	0.0042	0.1020	0.0562	0.0682	88.45%
σ		1.6107	2.32%	0.0006	0.0031	0.0204	0.0071	0.0085	1.25%
%RSD		1.2602	2.65	9.3807	73.3154	19.9823	12.6218	12.4044	1.41

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:39:27	0.0532	0.0602	97.9999	96.8077	97.0857	86.47%	0.0109	0.0099
2	02:40:25	0.0568	0.0512	95.8941	96.6571	96.5069	88.21%	0.0065	0.0076
3	02:41:22	0.0447	0.0524	97.2720	95.2515	95.3833	88.63%	0.0025	0.0042
x		0.0516	0.0546	97.0553	96.2388	96.3253	87.77%	0.0066	0.0072
σ		0.0062	0.0049	1.0695	0.8583	0.8656	1.15%	0.0042	0.0028
%RSD		12.0937	8.9885	1.1019	0.8918	0.8986	1.31	62.8784	39.3012

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:39:27	0.0065	0.0106	0.0092
2	02:40:25	0.0112	0.0168	0.0140
3	02:41:22	0.0139	0.0167	0.0141
x		0.0105	0.0147	0.0124
σ		0.0037	0.0036	0.0028
%RSD		35.4747	24.3896	22.5148

K0911290-001D 12/13/2009 02:44:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:12	134.52%	0.0078	1.7067	118.19%	1.7302	0.4216	0.3994	185.1222
2	02:45:09	122.16%	0.0020	1.6078	111.60%	1.6637	0.4262	0.2275	176.5889
3	02:46:06	118.60%	0.0048	1.6186	110.15%	1.6576	0.4690	0.2885	176.0986
x		125.09%	0.0049	1.6444	113.31%	1.6838	0.4389	0.3051	179.2699
σ		8.35%	0.0029	0.0543	4.28%	0.0403	0.0261	0.0871	5.0742
%RSD		6.68	60.0836	3.3005	3.78	2.3929	5.9494	28.5553	2.8305

JA 12/13/09

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:12	0.6697	5.7011	23.6880	7.0253	0.3502	0.1204	0.1573	3.8434
2	02:45:09	0.6291	5.2642	21.1845	6.4485	0.3269	0.1410	0.2114	3.1881
3	02:46:06	0.5825	5.4181	17.4510	6.3466	0.3299	0.1098	0.2270	3.6466
x		0.6271	5.4611	20.7745	6.6068	0.3356	0.1237	0.1985	3.5594
σ		0.0436	0.2216	3.1387	0.3660	0.0127	0.0158	0.0366	0.3362
%RSD		6.9537	4.0576	15.1083	5.5399	3.7746	12.8016	18.4349	9.4465

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:12	2.7970	97.47%	0.8952	0.0346	0.6213	1.5097	120.6709	122.4435
2	02:45:09	2.6793	98.35%	0.7518	0.3612	-0.2328	1.5059	118.0915	119.6708
3	02:46:06	2.7034	94.05%	0.9036	0.0880	0.2419	1.6576	119.8437	121.5986
x		2.7265	96.62%	0.8502	0.1613	0.2101	1.5577	119.5354	121.2376
σ		0.0622	2.27%	0.0854	0.1752	0.4279	0.0865	1.3170	1.4211
%RSD		2.2814	2.35	10.0391	108.6316	203.6624	5.5533	1.1018	1.1722

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:12	121.0265	92.99%	0.0023	0.0013	0.0735	0.0547	0.0566	93.19%
2	02:45:09	118.0470	92.34%	0.0007	0.0008	0.0786	0.0508	0.0554	93.42%
3	02:46:06	119.3958	90.80%	0.0024	0.0013	0.0962	0.0584	0.0622	94.35%
x		119.4898	92.04%	0.0018	0.0011	0.0828	0.0546	0.0581	93.65%
σ		1.4920	1.13%	0.0010	0.0003	0.0120	0.0038	0.0036	0.61%
%RSD		1.2486	1.22	53.7968	29.2247	14.4444	7.0082	6.2816	0.66

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:12	0.0513	0.0431	93.5037	91.3731	92.8744	90.08%	0.0014	0.0001
2	02:45:09	0.0419	0.0417	90.2699	88.6843	89.5919	92.89%	-0.0012	-0.0005
3	02:46:06	0.0399	0.0413	88.1156	87.8034	88.3686	93.95%	0.0062	0.0015
x		0.0444	0.0420	90.6297	89.2869	90.2783	92.31%	0.0021	0.0004
σ		0.0061	0.0009	2.7120	1.8596	2.3300	2.00%	0.0038	0.0010
%RSD		13.6552	2.1997	2.9924	2.0827	2.5809	2.16	177.1475	272.8686

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:44:12	0.0114	0.0085	0.0092
2	02:45:09	0.0115	0.0095	0.0080
3	02:46:06	0.0066	0.0128	0.0098
x		0.0099	0.0103	0.0090
σ		0.0028	0.0022	0.0009
%RSD		28.1846	21.6498	10.4059

K0911290-001 1/5L 12/13/2009 02:49:01 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:01	125.70%	0.0018	0.8161	113.42%	0.3577	0.1244	-0.0657	36.3966
2	02:49:59	110.80%	-0.0011	0.8601	107.32%	0.3846	0.1066	-0.0762	36.9360
3	02:50:56	106.99%	0.0032	0.8930	105.78%	0.3210	0.0967	0.0111	36.0359
x		114.50%	0.0013	0.8564	108.84%	0.3544	0.1092	-0.0436	36.4562
σ		9.89%	0.0022	0.0386	4.04%	0.0319	0.0140	0.0477	0.4530
%RSD		8.63	163.9167	4.5036	3.71	8.9985	12.8483	109.4320	1.2425

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:01	0.1316	1.2431	4.9176	2.5932	0.1632	0.0242	0.5511	1.1975
2	02:49:59	0.1316	1.1626	4.7460	2.7046	0.1315	0.0208	0.4952	1.2618
3	02:50:56	0.1151	1.2191	2.4319	2.8265	0.1249	0.0200	0.4769	1.1451
x		0.1261	1.2083	4.0318	2.7081	0.1399	0.0216	0.5077	1.2015
σ		0.0095	0.0413	1.3883	0.1167	0.0205	0.0022	0.0387	0.0584
%RSD		7.5591	3.4186	34.4325	4.3082	14.6508	10.2117	7.6146	4.8613

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:01	0.9462	104.80%	0.0239	0.0681	0.3435	-0.1518	23.3079	23.9343
2	02:49:59	1.0531	101.27%	0.1293	0.1637	-0.1009	0.2657	23.4367	24.0428
3	02:50:56	1.0987	98.80%	0.2249	-0.0142	-0.3026	0.5356	24.1814	24.0042
x		1.0327	101.62%	0.1260	0.0725	-0.0200	0.2165	23.6420	23.9938
σ		0.0783	3.01%	0.1006	0.0890	0.3306	0.3463	0.4715	0.0550
%RSD		7.5806	2.96	79.7857	122.8155	1654.9547	159.9579	1.9944	0.2292

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:01	23.5237	101.14%	-0.0005	-0.0011	0.0234	0.0117	0.0077	100.55%
2	02:49:59	23.5349	99.33%	-0.0010	-0.0011	0.0264	0.0158	0.0179	97.88%
3	02:50:56	24.0928	97.03%	0.0016	-0.0005	0.0145	0.0059	0.0140	98.08%
x		23.7171	99.17%	0.0000	-0.0009	0.0214	0.0111	0.0132	98.83%
σ		0.3254	2.06%	0.0014	0.0003	0.0062	0.0050	0.0051	1.49%
%RSD		1.3719	2.08	4581.7728	37.7990	28.9059	44.6779	38.8818	1.50

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:01	0.0100	0.0102	18.0133	17.6378	17.8120	95.01%	-0.0018	-0.0008
2	02:49:59	0.0134	0.0125	18.0132	17.3170	17.6920	95.75%	-0.0018	-0.0025
3	02:50:56	0.0118	0.0135	18.0335	17.4113	17.6446	96.75%	-0.0019	-0.0028
x		0.0117	0.0121	18.0200	17.4554	17.7162	95.84%	-0.0019	-0.0020
σ		0.0017	0.0017	0.0117	0.1649	0.0863	0.87%	0.0000	0.0011
%RSD		14.5177	13.8127	0.0650	0.9445	0.4870	0.91	2.4714	52.5723

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:49:01	0.0004	0.0031	0.0023
2	02:49:59	0.0024	-0.0003	0.0018
3	02:50:56	0.0008	0.0010	0.0011
x		0.0012	0.0013	0.0017
σ		0.0010	0.0017	0.0006
%RSD		87.8606	133.1219	35.9022

K0911290-001A 12/13/2009 02:53:44 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:53:44	138.06%	19.0751	20.3150	116.60%	22.0693	20.1516	20.6596	198.3844
2	02:54:41	126.44%	19.0465	20.3589	107.73%	22.4895	20.5909	20.9105	199.4406
3	02:55:39	119.69%	19.3795	20.7502	107.69%	22.1704	20.2109	20.3809	197.7301
x		128.06%	19.1670	20.4747	110.68%	22.2430	20.3178	20.6504	198.5184
σ		9.29%	0.1846	0.2396	5.13%	0.2193	0.2383	0.2649	0.8631
%RSD		7.26	0.9630	1.1700	4.64	0.9860	1.1731	1.2829	0.4348

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:53:44	21.1285	25.9621	42.5660	27.7243	20.8201	20.5639	20.0017	22.5352
2	02:54:41	20.9782	25.3735	37.1133	28.0141	21.0461	20.1487	20.2002	23.1324
3	02:55:39	21.0586	25.4097	39.7585	27.2796	20.5006	20.6658	19.8243	22.8035
x		21.0551	25.5818	39.8126	27.6727	20.7889	20.4594	20.0087	22.8237
σ		0.0752	0.3299	2.7268	0.3700	0.2741	0.2739	0.1880	0.2991
%RSD		0.3571	1.2896	6.8490	1.3370	1.3185	1.3386	0.9398	1.3107

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:53:44	22.5197	97.83%	22.4434	20.7358	21.7482	21.3456	135.7392	137.1000
2	02:54:41	22.6576	95.14%	22.6250	22.5378	21.3531	23.9062	140.6516	142.3346
3	02:55:39	22.7669	94.29%	22.8632	21.3927	22.4106	24.4064	140.4257	143.8056
x		22.6481	95.75%	22.6438	21.5554	21.8373	23.2194	138.9388	141.0801
σ		0.1238	1.85%	0.2106	0.9120	0.5344	1.6419	2.7732	3.5244
%RSD		0.5468	1.93	0.9299	4.2308	2.4470	7.0713	1.9960	2.4982

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:53:44	135.2488	92.62%	9.5006	9.4302	20.3959	20.7146	20.5084	94.89%
2	02:54:41	140.0503	89.94%	9.6199	9.4986	20.8652	21.5155	20.8006	93.23%
3	02:55:39	142.1792	89.89%	9.8114	9.7348	21.2082	21.8627	21.4027	91.42%
x		139.1594	90.82%	9.6440	9.5545	20.8231	21.3642	20.9039	93.18%
σ		3.5500	1.56%	0.1568	0.1598	0.4078	0.5888	0.4560	1.74%
%RSD		2.5511	1.72	1.6258	1.6726	1.9583	2.7560	2.1816	1.86

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:53:44	20.4137	20.8381	110.4908	107.7471	108.8315	91.08%	20.8686	20.7933
2	02:54:41	20.7856	20.8650	109.8594	109.8033	109.6785	91.68%	20.9741	20.9617
3	02:55:39	21.3163	21.4845	110.7546	109.2498	111.9333	91.82%	21.2241	21.2108
x		20.8386	21.0625	110.3683	108.9334	110.1478	91.53%	21.0222	20.9886
σ		0.4536	0.3657	0.4600	1.0640	1.6033	0.40%	0.1826	0.2100
%RSD		2.1769	1.7361	0.4168	0.9768	1.4556	0.43	0.8686	1.0007

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:53:44	19.5643	19.6654	19.7101
2	02:54:41	20.1173	19.8066	19.9495
3	02:55:39	20.0463	20.3490	20.1637
x		19.9093	19.9403	19.9411
σ		0.3009	0.3609	0.2269
%RSD		1.5113	1.8097	1.1380

K0911290-001S 12/13/2009 02:59:07 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:59:07	137.14%	18.6951	19.2942	114.82%	20.1813	18.7621	19.5918	196.7171
2	03:00:04	120.17%	18.6522	19.5071	108.48%	20.3809	18.6077	18.3730	194.3333
3	03:01:02	117.98%	18.3600	19.7350	108.63%	20.0041	18.6440	19.5014	193.9769
x		125.09%	18.5691	19.5121	110.65%	20.1887	18.6713	19.1554	195.0091
σ		10.49%	0.1823	0.2204	3.62%	0.1885	0.0807	0.6791	1.4899
%RSD		8.39	0.9819	1.1296	3.27	0.9336	0.4325	3.5450	0.7640

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:59:07	19.9952	24.0001	39.5643	26.5201	19.1088	18.3554	18.7847	21.1759
2	03:00:04	20.1085	23.3986	35.7391	25.7944	18.8051	18.9795	18.2912	20.3111
3	03:01:02	19.5739	23.6764	38.4123	25.7685	19.4094	18.8059	18.4760	21.7240
x		19.8926	23.6917	37.9052	26.0276	19.1078	18.7136	18.5173	21.0703
σ		0.2817	0.3011	1.9623	0.4267	0.3022	0.3221	0.2493	0.7123
%RSD		1.4161	1.2707	5.1769	1.6392	1.5813	1.7214	1.3464	3.3806

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:59:07	20.8359	98.77%	21.1412	7.6141	9.0267	9.8058	134.9573	136.5209
2	03:00:04	20.9802	93.17%	20.1651	8.2260	9.0352	9.6626	136.4726	137.6519
3	03:01:02	21.0369	92.73%	20.7819	7.3869	8.1355	9.5092	137.4571	139.6864
x		20.9510	94.89%	20.6961	7.7424	8.7325	9.6592	136.2956	137.9531
σ		0.1036	3.37%	0.4937	0.4340	0.5170	0.1484	1.2593	1.6041
%RSD		0.4945	3.55	2.3855	5.6054	5.9206	1.5359	0.9239	1.1628

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:59:07	134.9174	93.36%	18.7744	18.5548	18.5082	18.6774	18.4519	94.46%
2	03:00:04	134.2338	90.78%	18.7952	18.3944	19.1212	18.6160	18.6504	91.42%
3	03:01:02	138.8239	89.88%	19.0027	18.7672	18.7203	18.6964	18.7603	90.99%
x		135.9917	91.34%	18.8574	18.5721	18.7832	18.6633	18.6209	92.29%
σ		2.4765	1.80%	0.1263	0.1870	0.3113	0.0420	0.1563	1.89%
%RSD		1.8210	1.98	0.6695	1.0069	1.6574	0.2252	0.8393	2.05

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:59:07	19.0487	18.9646	107.3122	106.3492	107.0862	90.01%	19.1182	19.0699
2	03:00:04	19.0883	19.1224	106.8607	105.7249	106.0474	91.25%	18.8795	19.0214
3	03:01:02	19.1174	19.2607	107.7650	107.0348	108.4321	91.07%	19.2561	19.2250
x		19.0848	19.1159	107.3126	106.3696	107.1886	90.77%	19.0846	19.1054
σ		0.0345	0.1481	0.4522	0.6552	1.1957	0.67%	0.1905	0.1064
%RSD		0.1808	0.7749	0.4214	0.6159	1.1155	0.74	0.9984	0.5567

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	02:59:07	18.3356	18.3063	18.2294
2	03:00:04	17.8161	17.9852	17.9460
3	03:01:02	18.4202	18.2263	18.3128
x		18.1906	18.1726	18.1627
σ		0.3271	0.1671	0.1923
%RSD		1.7981	0.9196	1.0587

K0911290-002 12/13/2009 03:04:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:21	114.82%	0.0090	1.0444	118.41%	0.6018	0.3643	0.5147	361.2223
2	03:05:19	117.17%	0.0109	1.0923	122.46%	0.5790	0.3239	0.5741	355.3411
3	03:06:16	111.04%	0.0169	1.0452	116.42%	0.4783	0.2803	0.6518	349.1600
x		114.34%	0.0122	1.0606	119.10%	0.5530	0.3228	0.5802	355.2411
σ		3.09%	0.0041	0.0275	3.08%	0.0657	0.0420	0.0688	6.0318
%RSD		2.70	33.6661	2.5903	2.58	11.8837	13.0247	11.8494	1.6979

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:21	0.4798	4.9224	54.2033	5.6611	0.3204	0.3271	0.3340	7.9780
2	03:05:19	0.4613	4.5191	49.3044	5.1650	0.3055	0.2753	0.3368	8.1499
3	03:06:16	0.4661	4.4867	45.7177	4.7711	0.2902	0.2348	0.2462	7.9221
x		0.4691	4.6427	49.7418	5.1990	0.3054	0.2790	0.3057	8.0166
σ		0.0096	0.2428	4.2597	0.4459	0.0151	0.0463	0.0515	0.1187
%RSD		2.0471	5.2289	8.5636	8.5774	4.9389	16.5901	16.8443	1.4808

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:21	6.8431	89.68%	5.8174	0.6074	0.3201	19.2074	129.6389	132.5320
2	03:05:19	6.5355	94.56%	4.9873	0.6697	0.3410	16.6920	129.4172	132.0509
3	03:06:16	6.2838	97.47%	5.2444	0.6508	-0.0493	17.9020	127.9530	128.4955
x		6.5541	93.90%	5.3497	0.6426	0.2040	17.9338	129.0031	131.0261
σ		0.2801	3.93%	0.4250	0.0319	0.2196	1.2580	0.9161	2.2048
%RSD		4.2737	4.19	7.9436	4.9716	107.6595	7.0147	0.7101	1.6827

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:21	129.3797	86.73%	0.0044	0.0010	0.0973	0.0613	0.0681	87.61%
2	03:05:19	129.7686	89.98%	0.0076	0.0055	0.0981	0.0490	0.0785	92.12%
3	03:06:16	127.2823	90.14%	0.0030	0.0055	0.1003	0.0581	0.0792	92.51%
x		128.8102	88.95%	0.0050	0.0040	0.0986	0.0561	0.0753	90.75%
σ		1.3374	1.92%	0.0023	0.0026	0.0016	0.0064	0.0062	2.72%
%RSD		1.0383	2.16	46.9666	65.3175	1.6086	11.3178	8.2793	3.00

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:21	0.0238	0.0278	235.6256	231.3688	236.7599	85.65%	0.0049	0.0036
2	03:05:19	0.0251	0.0371	228.9577	227.7945	228.4024	89.53%	0.0054	0.0088
3	03:06:16	0.0333	0.0348	225.1387	221.6310	225.0730	90.59%	0.0038	0.0062
x		0.0274	0.0332	229.9073	226.9314	230.0784	88.59%	0.0047	0.0062
σ		0.0051	0.0049	5.3076	4.9259	6.0210	2.60%	0.0008	0.0026
%RSD		18.7764	14.6389	2.3086	2.1707	2.6169	2.94	17.5464	42.0206

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:04:21	0.0078	0.0085	0.0101
2	03:05:19	0.0094	0.0165	0.0103
3	03:06:16	0.0076	0.0134	0.0132
x		0.0082	0.0128	0.0112
σ		0.0010	0.0041	0.0017
%RSD		11.9335	31.7699	15.5216

CCV9 12/13/2009 03:09:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:12	123.43%	26.7680	25.8831	115.44%	26.4232	26.0650	25.5537	25.2432
2	03:10:09	118.41%	25.3883	25.1251	111.34%	25.5075	25.4942	25.0873	25.1950
3	03:11:06	113.30%	25.7226	25.1459	107.40%	25.3624	25.3751	25.5714	25.1999
x		118.38%	25.9596	25.3847	111.40%	25.7644	25.6448	25.4041	25.2127
σ		5.06%	0.7197	0.4318	4.02%	0.5752	0.3687	0.2745	0.0265
%RSD		4.28	2.7724	1.7009	3.61	2.2324	1.4379	1.0806	0.1052

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:12	26.0032	26.2750	24.8349	26.8746	26.2000	26.2168	24.9714	23.7311
2	03:10:09	25.8473	25.7600	25.5199	26.6214	25.4170	25.2755	25.1491	22.9216
3	03:11:06	25.4777	25.5496	22.9475	26.3378	25.9204	25.4463	24.8106	24.5268
x		25.7761	25.8615	24.4341	26.6112	25.8458	25.6462	24.9770	23.7265
σ		0.2699	0.3732	1.3322	0.2686	0.3968	0.5015	0.1693	0.8026
%RSD		1.0471	1.4432	5.4523	1.0092	1.5353	1.9553	0.6779	3.3829

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:12	25.2596	106.71%	26.2945	26.1330	25.3686	26.4619	27.7279	28.0244
2	03:10:09	24.4347	103.33%	25.0089	25.8257	26.0368	25.1788	27.6159	27.6024
3	03:11:06	24.3209	101.47%	25.4102	26.7836	25.4764	25.5961	28.0743	27.9047
x		24.6717	103.83%	25.5712	26.2474	25.6273	25.7456	27.8060	27.8438
σ		0.5122	2.66%	0.6577	0.4891	0.3587	0.6545	0.2390	0.2175
%RSD		2.0762	2.56	2.5722	1.8634	1.3997	2.5421	0.8594	0.7811

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:12	27.3945	104.79%	26.0107	25.3538	25.0788	24.8893	24.8478	102.38%
2	03:10:09	27.0253	102.76%	25.5994	25.3228	24.7292	24.4970	24.3276	101.57%
3	03:11:06	27.2846	100.24%	25.6479	25.6710	25.4526	24.9434	24.9679	99.25%
x		27.2348	102.60%	25.7527	25.4492	25.0869	24.7766	24.7144	101.06%
σ		0.1896	2.28%	0.2248	0.1927	0.3618	0.2436	0.3404	1.63%
%RSD		0.6961	2.22	0.8729	0.7573	1.4421	0.9832	1.3772	1.61

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:12	24.4874	24.7095	25.7529	25.4510	25.5760	94.23%	25.5207	25.5384
2	03:10:09	24.6178	24.3779	25.5203	25.2016	25.4765	95.07%	25.6705	25.4483
3	03:11:06	24.8769	24.9891	25.9900	25.5061	25.7001	95.70%	25.6957	25.5584
x		24.6607	24.6922	25.7544	25.3862	25.5842	95.00%	25.6290	25.5151
σ		0.1982	0.3060	0.2348	0.1623	0.1120	0.74%	0.0946	0.0586
%RSD		0.8039	1.2392	0.9119	0.6392	0.4379	0.78	0.3691	0.2298

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:09:12	25.0565	25.1081	25.0233
2	03:10:09	24.8559	25.1358	24.9253
3	03:11:06	25.1134	24.9146	25.0208
x		25.0086	25.0528	24.9898
σ		0.1353	0.1205	0.0558
%RSD		0.5409	0.4810	0.2235

CCB9 12/13/2009 03:23:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:23:21	119.53%	-0.0023	-0.0015	111.92%	0.0047	0.0571	-0.1434	0.0214
2	03:24:18	111.55%	-0.0005	-0.0181	103.04%	0.0189	-0.0003	-0.2393	0.0161
3	03:25:16	106.31%	-0.0004	-0.0058	101.49%	0.0259	0.0327	-0.1871	0.0234
x		112.46%	-0.0010	-0.0085	105.48%	0.0165	0.0298	-0.1899	0.0203
σ		6.66%	0.0011	0.0086	5.63%	0.0108	0.0288	0.0480	0.0038
%RSD		5.92	101.7875	101.2898	5.34	65.5333	96.4406	25.2800	18.5643

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:23:21	-0.0018	0.0033	0.6274	0.2130	0.0078	-0.0045	-0.0707	-0.0079
2	03:24:18	-0.0025	-0.0029	1.2504	0.1817	0.0042	-0.0073	-0.0127	-0.0385
3	03:25:16	-0.0047	0.0014	0.3688	0.0887	-0.0047	-0.0165	-0.0264	-0.0222
x		-0.0030	0.0006	0.7489	0.1611	0.0024	-0.0095	-0.0366	-0.0228
σ		0.0015	0.0032	0.4532	0.0646	0.0064	0.0063	0.0303	0.0153
%RSD		51.0484	535.5645	60.5176	40.1067	263.1305	66.2013	82.9271	66.9795

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:23:21	-0.0456	102.02%	-0.0383	-0.0173	0.1642	-0.0934	0.2633	0.2930
2	03:24:18	-0.0186	99.25%	0.0123	-0.0147	0.0413	0.0654	0.3686	0.3859
3	03:25:16	-0.0115	99.96%	0.1394	-0.0152	0.0393	0.4998	0.3873	0.4248
x		-0.0252	100.41%	0.0378	-0.0158	0.0816	0.1572	0.3397	0.3679
σ		0.0180	1.44%	0.0916	0.0014	0.0716	0.3071	0.0669	0.0678
%RSD		71.5052	1.43	242.2179	8.6251	87.6750	195.3002	19.6889	18.4189

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:23:21	0.2755	101.06%	0.0010	0.0005	0.0024	0.0021	0.0021	97.27%
2	03:24:18	0.3925	97.90%	0.0043	-0.0010	0.0000	0.0009	-0.0009	97.09%
3	03:25:16	0.4243	97.78%	-0.0015	0.0000	0.0000	0.0009	0.0011	97.12%
x		0.3641	98.91%	0.0013	-0.0002	0.0008	0.0013	0.0007	97.16%
σ		0.0783	1.86%	0.0029	0.0008	0.0014	0.0007	0.0015	0.10%
%RSD		21.5142	1.88	231.8761	527.1325	173.2051	52.4107	208.7879	0.10

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:23:21	0.0008	0.0025	-0.0071	0.0022	0.0003	92.09%	0.0012	-0.0004
2	03:24:18	0.0008	0.0014	-0.0034	-0.0039	-0.0007	93.23%	-0.0022	0.0016
3	03:25:16	0.0008	0.0004	-0.0034	-0.0019	0.0003	94.67%	0.0005	0.0024
x		0.0008	0.0014	-0.0046	-0.0012	-0.0000	93.33%	-0.0001	0.0012
σ		0.0000	0.0010	0.0021	0.0031	0.0005	1.29%	0.0018	0.0015
%RSD		0.1969	71.1449	45.3638	262.6814	1886.9596	1.39	1223.2057	122.9543

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:23:21	-0.0026	-0.0015	-0.0017
2	03:24:18	-0.0011	-0.0022	-0.0016
3	03:25:16	-0.0027	-0.0009	-0.0011
x		-0.0021	-0.0015	-0.0014
σ		0.0009	0.0007	0.0003
%RSD		42.8078	42.8962	23.0802

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:28:07	119.30%	0.0107	2.7156	115.94%	1.6630	0.5398	0.5017	527.1447
2	03:29:04	117.48%	0.0093	2.6273	114.05%	1.5394	0.5299	0.6280	513.3096
3	03:30:02	110.15%	0.0118	2.6299	111.57%	1.5419	0.5827	0.7175	520.3349
x		115.64%	0.0106	2.6576	113.85%	1.5814	0.5508	0.6158	520.2630
σ		4.85%	0.0013	0.0502	2.19%	0.0706	0.0281	0.1084	6.9178
%RSD		4.19	11.9069	1.8901	1.93	4.4669	5.0943	17.6074	1.3297

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:28:07	0.9252	5.5833	38.4391	5.3504	0.3762	0.2210	0.4844	5.6486
2	03:29:04	0.9062	5.3060	35.8999	5.3139	0.4117	0.2181	0.6171	5.8445
3	03:30:02	0.9165	5.4511	37.5373	5.6290	0.4114	0.1873	0.5513	5.6249
x		0.9160	5.4468	37.2921	5.4311	0.3998	0.2088	0.5510	5.7060
σ		0.0095	0.1387	1.2873	0.1723	0.0204	0.0186	0.0663	0.1205
%RSD		1.0372	2.5460	3.4518	3.1725	5.1117	8.9278	12.0403	2.1117

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:28:07	4.6899	95.44%	2.4546	0.5663	0.5197	7.8183	21.1013	21.8883
2	03:29:04	4.7842	95.45%	1.9159	0.2773	0.2881	5.6862	20.9967	21.3719
3	03:30:02	4.4853	93.54%	1.8753	0.2341	0.2864	5.6296	20.9015	21.0887
x		4.6531	94.81%	2.0819	0.3592	0.3647	6.3781	20.9999	21.4496
σ		0.1528	1.10%	0.3234	0.1806	0.1342	1.2476	0.0999	0.4054
%RSD		3.2839	1.16	15.5319	50.2724	36.8055	19.5608	0.4759	1.8902

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:28:07	20.9107	90.93%	0.0019	-0.0015	0.0104	0.0266	0.0120	90.99%
2	03:29:04	20.8419	91.61%	0.0001	0.0019	0.0051	0.0064	0.0107	92.50%
3	03:30:02	21.0004	92.69%	0.0001	-0.0010	0.0127	0.0051	0.0107	92.49%
x		20.9177	91.74%	0.0007	-0.0002	0.0094	0.0127	0.0111	91.99%
σ		0.0795	0.88%	0.0010	0.0019	0.0039	0.0121	0.0007	0.87%
%RSD		0.3800	0.96	140.4806	1048.1664	41.4731	95.0884	6.6222	0.95

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:28:07	0.0626	0.0691	148.2278	145.9588	148.3544	88.98%	0.0079	0.0121
2	03:29:04	0.0532	0.0646	144.1022	143.5203	144.8118	91.67%	0.0032	0.0053
3	03:30:02	0.0673	0.0582	146.3562	144.3294	145.5562	92.05%	0.0007	0.0035
x		0.0610	0.0640	146.2287	144.6028	146.2408	90.90%	0.0039	0.0069
σ		0.0072	0.0055	2.0657	1.2420	1.8679	1.67%	0.0036	0.0045
%RSD		11.7601	8.5849	1.4127	0.8589	1.2773	1.84	92.5941	65.4470

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:28:07	0.0067	0.0210	0.0153
2	03:29:04	0.0180	0.0223	0.0196
3	03:30:02	0.0185	0.0243	0.0225
x		0.0144	0.0225	0.0192
σ		0.0067	0.0017	0.0036
%RSD		46.1594	7.4622	18.9487

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:52	123.98%	0.0050	0.8391	113.28%	0.5302	0.2792	0.2697	171.8106
2	03:33:49	116.12%	0.0016	0.9111	112.64%	0.4953	0.2693	0.2608	164.7897
3	03:34:46	114.97%	0.0051	0.8453	109.81%	0.5722	0.2813	0.1411	161.6448
x		118.36%	0.0039	0.8652	111.91%	0.5326	0.2766	0.2239	166.0817
σ		4.90%	0.0020	0.0399	1.85%	0.0385	0.0064	0.0718	5.2046
%RSD		4.14	50.3403	4.6099	1.65	7.2364	2.3203	32.0935	3.1338

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:52	0.6703	5.3739	25.2148	5.5315	0.3987	0.1568	14.7674	21.0024
2	03:33:49	0.6393	5.2504	23.3279	5.2498	0.3897	0.1340	14.4974	19.6072
3	03:34:46	0.6032	5.0022	21.2095	5.5819	0.3585	0.1251	14.1758	18.6670
x		0.6376	5.2088	23.2507	5.4544	0.3823	0.1386	14.4802	19.7589
σ		0.0336	0.1893	2.0038	0.1790	0.0211	0.0163	0.2962	1.1751
%RSD		5.2641	3.6338	8.6181	3.2816	5.5220	11.7758	2.0455	5.9470

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:52	19.0888	95.87%	2.6327	0.6123	0.1959	7.6319	242.5124	243.5135
2	03:33:49	18.4965	93.74%	3.1068	0.1862	0.2974	8.4880	237.0533	240.1164
3	03:34:46	18.6014	95.41%	2.4643	0.6131	-0.0877	6.7390	230.9052	234.5710
x		18.7289	95.01%	2.7346	0.4706	0.1352	7.6196	236.8237	239.4003
σ		0.3161	1.12%	0.3332	0.2463	0.1996	0.8745	5.8070	4.5141
%RSD		1.6876	1.18	12.1832	52.3362	147.6046	11.4775	2.4520	1.8856

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:52	239.2033	90.53%	0.0025	0.0009	0.1783	0.1042	0.1217	89.67%
2	03:33:49	236.2630	90.61%	0.0024	-0.0021	0.1604	0.0812	0.1173	91.51%
3	03:34:46	234.3821	91.79%	0.0007	0.0008	0.1463	0.0979	0.1018	91.95%
x		236.6162	90.98%	0.0019	-0.0001	0.1617	0.0944	0.1136	91.04%
σ		2.4299	0.71%	0.0010	0.0017	0.0160	0.0119	0.0104	1.21%
%RSD		1.0269	0.78	53.9220	1135.2144	9.9235	12.5726	9.1944	1.33

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:52	0.0592	0.0326	170.8482	168.7969	171.0150	87.65%	0.0016	-0.0014
2	03:33:49	0.0621	0.0470	163.6297	162.1124	163.7630	91.12%	0.0013	-0.0016
3	03:34:46	0.0535	0.0596	161.1020	160.9982	162.0647	91.77%	0.0003	-0.0012
x		0.0583	0.0464	165.1933	163.9692	165.6143	90.18%	0.0011	-0.0014
σ		0.0044	0.0135	5.0577	4.2179	4.7537	2.22%	0.0007	0.0002
%RSD		7.5678	29.1037	3.0617	2.5724	2.8703	2.46	65.3080	13.0198

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:32:52	0.0003	0.0038	0.0025
2	03:33:49	-0.0020	-0.0001	0.0002
3	03:34:46	0.0006	0.0027	0.0009
x		-0.0004	0.0021	0.0012
σ		0.0014	0.0020	0.0012
%RSD		358.4391	92.7298	95.6892

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:42	123.59%	0.0181	3.5665	121.38%	2.9602	1.0054	0.8909	840.4740
2	03:38:40	116.51%	0.0204	3.5801	117.51%	2.8975	0.8866	0.9105	836.0235
3	03:39:37	115.48%	0.0189	3.3803	118.02%	2.9490	0.9157	0.6863	814.5808
x		118.52%	0.0191	3.5090	118.97%	2.9356	0.9359	0.8292	830.3594
σ		4.41%	0.0012	0.1116	2.10%	0.0334	0.0619	0.1241	13.8447
%RSD		3.72	6.1649	3.1811	1.76	1.1382	6.6163	14.9713	1.6673

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:42	1.6789	10.2378	26.8336	9.7847	0.3867	0.2234	0.5495	3.6860
2	03:38:40	1.6719	9.9315	25.3312	10.0783	0.3574	0.2227	0.5242	3.5066
3	03:39:37	1.6213	9.8121	23.9635	9.7918	0.3455	0.2134	0.5713	3.6848
x		1.6574	9.9938	25.3761	9.8849	0.3632	0.2198	0.5483	3.6258
σ		0.0314	0.2196	1.4356	0.1675	0.0212	0.0056	0.0236	0.1032
%RSD		1.8974	2.1973	5.6573	1.6947	5.8345	2.5413	4.3072	2.8469

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:42	2.7629	99.33%	1.1834	0.2171	-0.2072	2.3392	65.2203	66.3698
2	03:38:40	2.6813	97.85%	1.1361	0.3609	0.3920	2.3899	64.4559	65.2564
3	03:39:37	2.8798	98.81%	1.0123	0.4505	-0.3712	1.9363	63.6339	64.4522
x		2.7747	98.66%	1.1106	0.3428	-0.0622	2.2218	64.4367	65.3595
σ		0.0997	0.75%	0.0883	0.1177	0.4017	0.2486	0.7934	0.9629
%RSD		3.5950	0.76	7.9539	34.3378	646.3019	11.1878	1.2313	1.4733

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:42	65.2610	93.93%	0.0012	-0.0004	0.0430	0.0220	0.0315	93.01%
2	03:38:40	64.4382	94.56%	0.0001	-0.0021	0.0428	0.0206	0.0345	93.35%
3	03:39:37	64.3405	94.11%	0.0006	-0.0021	0.0521	0.0304	0.0328	95.50%
x		64.6799	94.20%	0.0007	-0.0015	0.0460	0.0243	0.0329	93.95%
σ		0.5056	0.32%	0.0006	0.0010	0.0053	0.0053	0.0015	1.35%
%RSD		0.7817	0.34	85.4833	63.8901	11.6275	21.9390	4.5678	1.43

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:37:42	0.0919	0.0795	82.4144	81.7148	82.2755	89.59%	-0.0005	-0.0013
2	03:38:40	0.0757	0.0852	81.4734	80.4642	80.2311	92.15%	-0.0031	0.0001
3	03:39:37	0.0806	0.0794	80.1059	79.4581	79.7242	92.56%	-0.0007	-0.0016
x		0.0828	0.0814	81.3312	80.5457	80.7436	91.43%	-0.0014	-0.0009
σ		0.0083	0.0034	1.1608	1.1305	1.3507	1.61%	0.0014	0.0009
%RSD		10.0449	4.1451	1.4273	1.4036	1.6728	1.76	98.6459	101.9412

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:37:42	0.3749	0.4046	0.3976
2	03:38:40	0.3801	0.4051	0.3965
3	03:39:37	0.3580	0.4345	0.3998
x		0.3710	0.4147	0.3980
σ		0.0116	0.0171	0.0017
%RSD		3.1188	4.1322	0.4293

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:29	123.02%	0.0056	0.7613	117.23%	0.3817	0.3015	0.5832	535.6937
2	03:43:26	111.12%	0.0030	0.8189	114.91%	0.3581	0.3007	0.5799	521.5530
3	03:44:24	103.67%	0.0040	0.9031	109.29%	0.4402	0.3182	0.4525	545.3599
x		112.60%	0.0042	0.8278	113.81%	0.3933	0.3068	0.5385	534.2022
σ		9.76%	0.0013	0.0713	4.08%	0.0422	0.0099	0.0745	11.9733
%RSD		8.67	31.5980	8.6138	3.59	10.7398	3.2141	13.8409	2.2413

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:29	0.5812	2.8041	54.6062	1.9707	0.2389	0.3079	0.6428	6.6069
2	03:43:26	0.5230	2.7067	48.8950	1.8658	0.2524	0.3316	0.7031	7.1324
3	03:44:24	0.5172	2.9390	49.4545	1.7714	0.2397	0.2758	0.7171	7.0048
x		0.5405	2.8166	50.9852	1.8693	0.2436	0.3051	0.6877	6.9147
σ		0.0354	0.1167	3.1483	0.0997	0.0076	0.0280	0.0395	0.2741
%RSD		6.5507	4.1417	6.1749	5.3331	3.1044	9.1822	5.7467	3.9636

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:29	5.7886	97.67%	2.8012	0.5515	0.0158	9.7309	1.5440	1.5326
2	03:43:26	5.5293	94.37%	2.5655	1.0080	0.0623	9.1747	1.4493	1.4076
3	03:44:24	5.8489	92.62%	2.5543	0.9271	-0.1522	9.2216	1.2745	1.3166
x		5.7223	94.88%	2.6403	0.8289	-0.0247	9.3758	1.4226	1.4189
σ		0.1698	2.57%	0.1394	0.2436	0.1129	0.3085	0.1367	0.1085
%RSD		2.9674	2.71	5.2806	29.3842	457.1076	3.2903	9.6097	7.6452

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:29	1.5767	92.58%	0.0001	-0.0021	0.0000	0.0050	0.0012	93.50%
2	03:43:26	1.3792	91.33%	-0.0010	-0.0027	0.0026	0.0025	0.0002	92.24%
3	03:44:24	1.2462	91.09%	0.0018	-0.0009	0.0026	-0.0002	0.0023	92.52%
x		1.4007	91.67%	0.0003	-0.0019	0.0017	0.0024	0.0012	92.76%
σ		0.1663	0.80%	0.0014	0.0009	0.0015	0.0026	0.0011	0.66%
%RSD		11.8722	0.87	434.9393	46.3306	86.6026	106.9101	86.5613	0.71

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:29	0.0173	0.0175	189.8502	188.5735	191.1794	90.88%	-0.0001	-0.0015
2	03:43:26	0.0192	0.0155	190.2126	187.7308	190.2669	92.04%	-0.0007	-0.0034
3	03:44:24	0.0200	0.0176	188.3800	186.4579	190.1023	91.38%	-0.0035	-0.0022
x		0.0188	0.0169	189.4810	187.5874	190.5162	91.44%	-0.0014	-0.0024
σ		0.0014	0.0012	0.9705	1.0651	0.5802	0.58%	0.0018	0.0009
%RSD		7.2327	6.9676	0.5122	0.5678	0.3045	0.64	125.7610	39.2012

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:42:29	0.0086	0.0155	0.0156
2	03:43:26	0.0164	0.0166	0.0167
3	03:44:24	0.0202	0.0154	0.0165
x		0.0151	0.0158	0.0163
σ		0.0059	0.0007	0.0006
%RSD		39.1829	4.3899	3.4577

K0911290-007 12/13/2009 03:47:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:15	119.41%	0.0053	0.7615	121.60%	0.3391	0.2835	0.6013	520.1501
2	03:48:12	109.21%	0.0048	0.7775	115.14%	0.3875	0.2446	0.4435	505.3900
3	03:49:09	110.37%	0.0013	0.8187	112.61%	0.4049	0.2434	0.4920	516.7841
x		113.00%	0.0038	0.7859	116.45%	0.3772	0.2572	0.5123	514.1081
σ		5.59%	0.0022	0.0295	4.64%	0.0341	0.0228	0.0808	7.7354
%RSD		4.94	57.8807	3.7499	3.98	9.0414	8.8650	15.7775	1.5046

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:15	0.3467	2.9722	50.6563	1.9061	0.2438	0.2880	0.3877	7.1480
2	03:48:12	0.3139	2.5987	50.2384	1.7118	0.2223	0.3348	0.3886	6.6886
3	03:49:09	0.3050	2.6667	46.4182	1.7026	0.2260	0.2199	0.4297	6.6111
x		0.3219	2.7459	49.1043	1.7735	0.2307	0.2809	0.4020	6.8159
σ		0.0220	0.1989	2.3356	0.1149	0.0115	0.0578	0.0240	0.2902
%RSD		6.8278	7.2449	4.7565	6.4807	4.9921	20.5774	5.9721	4.2577

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:15	5.4856	96.12%	2.5256	0.3705	-0.0442	8.6709	0.4729	0.5723
2	03:48:12	5.6935	96.31%	2.5464	0.4187	-0.1893	8.8041	0.5904	0.6051
3	03:49:09	5.3789	94.88%	2.0640	1.0571	-0.0847	7.4043	0.6227	0.6091
x		5.5193	95.77%	2.3787	0.6154	-0.1061	8.2931	0.5620	0.5955
σ		0.1600	0.77%	0.2727	0.3832	0.0749	0.7726	0.0788	0.0202
%RSD		2.8984	0.81	11.4644	62.2748	70.5727	9.3165	14.0243	3.3914

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:15	0.5061	91.72%	0.0018	-0.0015	0.0000	-0.0015	0.0001	93.87%
2	03:48:12	0.6026	90.55%	0.0002	-0.0009	0.0000	0.0011	0.0002	92.36%
3	03:49:09	0.6428	89.04%	0.0002	-0.0027	0.0000	0.0026	0.0013	91.02%
x		0.5838	90.44%	0.0007	-0.0017	0.0000	0.0007	0.0005	92.42%
σ		0.0702	1.34%	0.0009	0.0009	0.0000	0.0021	0.0006	1.42%
%RSD		12.0320	1.49	132.3883	51.6042	0.0000	285.6366	121.6607	1.54

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:15	0.0107	0.0068	186.0729	183.9144	186.8051	89.26%	-0.0025	-0.0027
2	03:48:12	0.0100	0.0155	189.2664	186.8237	188.5409	90.67%	-0.0050	-0.0013
3	03:49:09	0.0085	0.0027	186.6611	187.4512	189.5383	90.81%	-0.0025	-0.0031
x		0.0098	0.0084	187.3334	186.0631	188.2948	90.25%	-0.0033	-0.0024
σ		0.0011	0.0065	1.6996	1.8871	1.3831	0.86%	0.0014	0.0009
%RSD		11.6934	78.1678	0.9073	1.0142	0.7345	0.95	42.6594	39.0897

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:47:15	0.0018	0.0072	0.0036
2	03:48:12	0.0012	0.0049	0.0030
3	03:49:09	0.0012	0.0063	0.0046
x		0.0014	0.0062	0.0037
σ		0.0004	0.0012	0.0008
%RSD		26.7319	18.8863	21.4970

K0911354-MB 12/13/2009 03:52:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:52:03	123.55%	-0.0002	0.2917	115.30%	0.0430	0.0981	-0.1582	0.0904
2	03:53:01	116.13%	-0.0006	0.4281	111.64%	0.0406	0.0763	-0.1968	0.2311
3	03:53:58	108.59%	-0.0004	0.3288	107.24%	0.0309	0.0929	-0.1562	0.0910
x		116.09%	-0.0004	0.3495	111.39%	0.0382	0.0891	-0.1704	0.1375
σ		7.48%	0.0002	0.0705	4.03%	0.0064	0.0114	0.0229	0.0811
%RSD		6.44	49.6660	20.1817	3.62	16.8389	12.7571	13.4320	58.9452

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:52:03	-0.0053	-0.0029	0.4908	-0.0615	-0.0151	-0.0109	-0.0614	-0.0271
2	03:53:01	-0.0031	0.0032	0.8879	-0.1463	-0.0143	-0.0085	-0.0111	0.0213
3	03:53:58	-0.0044	-0.0008	0.2064	-0.2211	-0.0174	-0.0150	-0.0264	-0.0078
x		-0.0043	-0.0002	0.5284	-0.1430	-0.0156	-0.0115	-0.0329	-0.0045
σ		0.0011	0.0031	0.3423	0.0799	0.0016	0.0033	0.0258	0.0244
%RSD		25.2261	1578.9105	64.7801	55.8521	10.3297	28.9032	78.2845	536.8827

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:52:03	-0.0313	110.67%	0.0043	0.1004	-0.1541	0.1412	0.1884	0.2031
2	03:53:01	0.0127	105.39%	0.0570	0.1093	-0.1288	0.3266	0.1876	0.2254
3	03:53:58	-0.0349	102.58%	0.2236	0.0263	0.2493	0.8777	0.2197	0.2566
x		-0.0178	106.21%	0.0950	0.0787	-0.0112	0.4485	0.1986	0.2284
σ		0.0265	4.11%	0.1145	0.0456	0.2260	0.3831	0.0183	0.0269
%RSD		148.5917	3.87	120.5586	57.9388	2019.1682	85.4145	9.2248	11.7608

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:52:03	0.1850	106.05%	-0.0011	-0.0012	0.0000	-0.0005	-0.0010	103.37%
2	03:53:01	0.2222	104.72%	-0.0001	0.0004	0.0000	-0.0016	-0.0010	102.14%
3	03:53:58	0.2267	102.83%	-0.0010	-0.0011	0.0000	0.0032	0.0009	101.35%
x		0.2113	104.53%	-0.0007	-0.0006	0.0000	0.0003	-0.0003	102.29%
σ		0.0229	1.62%	0.0006	0.0009	0.0000	0.0025	0.0011	1.01%
%RSD		10.8368	1.55	80.1716	142.6506	0.0000	733.0244	321.6347	0.99

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:52:03	-0.0008	0.0003	0.0415	0.0351	0.0304	96.02%	-0.0041	-0.0035
2	03:53:01	0.0022	-0.0007	0.0871	0.0684	0.0766	97.03%	-0.0042	-0.0015
3	03:53:58	-0.0000	0.0013	0.0280	0.0315	0.0350	96.64%	-0.0042	-0.0042
x		0.0005	0.0003	0.0522	0.0450	0.0473	96.56%	-0.0042	-0.0031
σ		0.0016	0.0010	0.0309	0.0204	0.0254	0.51%	0.0000	0.0014
%RSD		321.3931	304.5726	59.2493	45.2877	53.7653	0.52	0.3439	46.6283

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:52:03	-0.0017	-0.0023	-0.0019
2	03:53:01	-0.0017	-0.0023	-0.0022
3	03:53:58	0.0003	-0.0030	-0.0018
x		-0.0010	-0.0025	-0.0020
σ		0.0012	0.0004	0.0002
%RSD		112.7246	15.2720	10.8456

LCSW K0911354 12/13/2009 03:56:51 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:51	112.52%	21.5199	20.7347	106.62%	20.3235	20.0437	19.7683	20.7341
2	03:57:48	109.08%	19.2339	20.0616	102.75%	20.0990	20.3255	20.0413	19.4910
3	03:58:46	101.16%	20.2433	20.1658	101.06%	19.8403	19.5385	19.0230	19.6643
x		107.59%	20.3323	20.3207	103.48%	20.0876	19.9692	19.6109	19.9632
σ		5.83%	1.1456	0.3623	2.85%	0.2418	0.3987	0.5271	0.6733
%RSD		5.42	5.6345	1.7829	2.76	1.2036	1.9968	2.6876	3.3725

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:51	21.1602	20.5858	20.6028	20.6281	20.9288	20.6727	19.7931	19.2485
2	03:57:48	19.6252	20.0790	19.0799	20.0970	20.0092	19.9143	19.6453	19.1751
3	03:58:46	19.7745	19.4881	19.9435	19.6915	19.4637	19.8091	18.8280	17.7637
x		20.1867	20.0510	19.8754	20.1389	20.1339	20.1320	19.4221	18.7291
σ		0.8464	0.5494	0.7637	0.4697	0.7404	0.4712	0.5198	0.8369
%RSD		4.1931	2.7399	3.8426	2.3324	3.6776	2.3405	2.6764	4.4682

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:51	19.5128	100.23%	20.5521	20.8832	20.2925	19.6612	20.0988	20.5134
2	03:57:48	19.9902	97.94%	19.7977	19.3108	20.2541	18.6471	20.0528	19.8924
3	03:58:46	19.1719	98.09%	19.7869	18.6566	19.0038	20.9765	20.6035	20.7706
x		19.5583	98.75%	20.0456	19.6168	19.8501	19.7616	20.2517	20.3921
σ		0.4110	1.28%	0.4387	1.1444	0.7332	1.1679	0.3055	0.4515
%RSD		2.1016	1.29	2.1885	5.8340	3.6938	5.9102	1.5087	2.2140

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:51	20.3917	99.18%	20.2160	19.8745	20.0117	19.7528	19.8123	96.68%
2	03:57:48	19.8919	98.63%	19.6355	19.7465	19.1841	19.2418	19.2795	95.97%
3	03:58:46	20.0513	95.56%	19.9697	19.8756	19.7471	19.5190	19.7328	94.60%
x		20.1116	97.79%	19.9404	19.8322	19.6476	19.5045	19.6082	95.75%
σ		0.2553	1.95%	0.2913	0.0742	0.4226	0.2558	0.2874	1.06%
%RSD		1.2693	2.00	1.4611	0.3742	2.1510	1.3117	1.4658	1.10

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:51	19.8286	19.9306	20.0830	20.0609	20.2484	91.30%	20.6189	20.5163
2	03:57:48	19.5785	19.4230	20.1207	19.9134	20.0206	92.87%	20.4748	20.2255
3	03:58:46	19.3889	19.6453	20.0464	20.1915	19.9737	92.50%	20.5115	20.3952
x		19.5987	19.6663	20.0834	20.0553	20.0809	92.22%	20.5351	20.3790
σ		0.2206	0.2545	0.0372	0.1391	0.1469	0.82%	0.0749	0.1461
%RSD		1.1253	1.2939	0.1850	0.6936	0.7317	0.89	0.3645	0.7168

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	03:56:51	19.9808	19.9683	19.9592
2	03:57:48	19.5285	19.4336	19.4697
3	03:58:46	20.0300	19.9678	19.9304
x		19.8464	19.7899	19.7864
σ		0.2764	0.3086	0.2747
%RSD		1.3929	1.5593	1.3881

K0911354-001 12/13/2009 04:02:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:15	118.93%	0.0505	73.0021	112.44%	11.3867	3.6399	3.2720	448.2042
2	04:03:13	119.05%	0.0524	67.5637	105.52%	11.0135	3.5047	3.4872	445.8835
3	04:04:10	108.33%	0.0539	69.4166	104.97%	10.7015	3.2452	3.4132	435.8504
x		115.44%	0.0523	69.9941	107.64%	11.0339	3.4633	3.3908	443.3127
σ		6.15%	0.0017	2.7648	4.16%	0.3430	0.2006	0.1093	6.5659
%RSD		5.33	3.1786	3.9500	3.87	3.1088	5.7921	3.2246	1.4811

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:15	1.1703	3.8824	19.2581	3.7591	14.4229	13.9921	2.6203	27.1428
2	04:03:13	1.0834	3.7641	15.6104	3.6254	13.5387	13.2707	2.6253	25.0703
3	04:04:10	1.0758	3.6055	15.6901	3.7589	13.5828	13.1660	2.7244	25.2483
x		1.1098	3.7507	16.8529	3.7145	13.8481	13.4763	2.6567	25.8205
σ		0.0525	0.1389	2.0834	0.0772	0.4983	0.4498	0.0587	1.1486
%RSD		4.7313	3.7036	12.3621	2.0770	3.5983	3.3374	2.2109	4.4485

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:15	20.3773	95.14%	50.7508	3.0245	2.2913	5.8165	9.2498	9.3370
2	04:03:13	20.1687	95.14%	47.8228	3.1247	3.0535	4.8365	8.9898	9.3211
3	04:04:10	19.3723	93.92%	47.2925	2.6308	2.0347	5.4039	9.4248	9.4249
x		19.9728	94.73%	48.6220	2.9267	2.4598	5.3523	9.2215	9.3610
σ		0.5303	0.70%	1.8626	0.2611	0.5299	0.4921	0.2189	0.0559
%RSD		2.6554	0.74	3.8307	8.9220	21.5430	9.1933	2.3733	0.5971

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:15	9.3285	91.04%	0.0321	0.0260	0.1304	0.1023	0.0973	90.14%
2	04:03:13	8.9710	90.48%	0.0362	0.0313	0.1251	0.1182	0.1034	90.53%
3	04:04:10	9.2570	89.06%	0.0268	0.0275	0.0815	0.0948	0.1008	90.11%
x		9.1855	90.19%	0.0317	0.0283	0.1123	0.1051	0.1005	90.26%
σ		0.1892	1.02%	0.0047	0.0027	0.0269	0.0120	0.0031	0.24%
%RSD		2.0595	1.13	14.8333	9.6558	23.9054	11.4112	3.0485	0.26

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:02:15	0.7183	0.7391	631.7941	624.7820	654.9932	86.97%	0.0683	0.0591
2	04:03:13	0.7486	0.7603	612.9261	610.8033	633.9349	88.95%	0.0706	0.0639
3	04:04:10	0.7733	0.7460	603.0333	598.2277	625.6183	89.76%	0.0645	0.0619
x		0.7467	0.7485	615.9178	611.2710	638.1821	88.56%	0.0678	0.0617
σ		0.0276	0.0108	14.6119	13.2833	15.1410	1.43%	0.0031	0.0024
%RSD		3.6914	1.4453	2.3724	2.1731	2.3725	1.62	4.5247	3.9077

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:02:15	1.1874	1.3406	1.2460
2	04:03:13	1.1559	1.2457	1.2224
3	04:04:10	1.1153	1.2281	1.1807
x		1.1529	1.2715	1.2164
σ		0.0361	0.0606	0.0330
%RSD		3.1348	4.7627	2.7153

K0911354-002 12/13/2009 04:07:03 AM

User Pre-dilution: 1.000

JS 12/13/09

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:07:03	128.66%	0.0022	0.8278	121.60%	0.0426	4.5532	4.9731	575.9623
2	04:08:00	119.54%	0.0031	0.8189	113.56%	0.1220	4.6409	4.9531	570.5037
3	04:08:58	111.93%	0.0018	0.8379	109.55%	0.0796	4.5888	4.9838	577.9333
x		120.04%	0.0024	0.8282	114.90%	0.0814	4.5943	4.9700	574.7998
σ		8.38%	0.0007	0.0095	6.14%	0.0397	0.0441	0.0156	3.8488
%RSD		6.98	28.7128	1.1482	5.34	48.8232	0.9598	0.3136	0.6696

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:07:03	0.6817	3.3368	34.5186	2.3817	1.0410	0.9881	0.3828	8.5020
2	04:08:00	0.6498	3.0855	29.7737	2.5432	1.0059	0.9492	0.4080	7.3666
3	04:08:58	0.6498	3.1628	28.8132	2.5928	0.9530	1.0182	0.3990	7.5909
x		0.6604	3.1950	31.0352	2.5059	1.0000	0.9851	0.3966	7.8198
σ		0.0184	0.1288	3.0547	0.1104	0.0443	0.0346	0.0128	0.6013
%RSD		2.7831	4.0300	9.8428	4.4042	4.4316	3.5109	3.2205	7.6892

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:07:03	6.2661	101.04%	0.3974	0.5744	0.1243	1.2321	2.8349	2.9786
2	04:08:00	6.2361	98.30%	0.3304	0.8739	0.0534	1.3645	2.8120	2.9060
3	04:08:58	5.8912	95.52%	0.2188	0.9028	0.4003	1.0448	3.0687	3.1297
x		6.1311	98.29%	0.3156	0.7837	0.1927	1.2138	2.9052	3.0048
σ		0.2083	2.76%	0.0902	0.1818	0.1833	0.1606	0.1420	0.1142
%RSD		3.3980	2.81	28.5946	23.1998	95.1209	13.2321	4.8890	3.7998

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:07:03	2.9193	96.24%	0.0006	-0.0005	0.0049	0.0048	0.0021	95.80%
2	04:08:00	3.0124	93.37%	-0.0004	0.0007	0.0100	0.0088	0.0053	94.32%
3	04:08:58	3.0606	90.57%	0.0030	0.0008	0.0026	0.0051	0.0023	92.83%
x		2.9974	93.39%	0.0010	0.0003	0.0058	0.0062	0.0032	94.32%
σ		0.0718	2.84%	0.0018	0.0007	0.0038	0.0022	0.0018	1.49%
%RSD		2.3961	3.04	167.4444	202.1871	65.4573	36.0203	55.4241	1.58

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:07:03	0.0411	0.0440	200.8369	201.0550	205.0312	90.82%	0.1318	0.1350
2	04:08:00	0.0408	0.0404	203.1359	202.1125	205.4968	91.66%	0.1334	0.1380
3	04:08:58	0.0455	0.0420	205.5537	202.0343	205.0494	91.83%	0.1422	0.1366
x		0.0425	0.0422	203.1755	201.7339	205.1925	91.44%	0.1358	0.1366
σ		0.0027	0.0018	2.3587	0.5893	0.2637	0.54%	0.0056	0.0015
%RSD		6.2517	4.3279	1.1609	0.2921	0.1285	0.59	4.1363	1.1029

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:07:03	0.1497	0.1563	0.1535
2	04:08:00	0.1652	0.1738	0.1715
3	04:08:58	0.1654	0.1574	0.1646
x		0.1601	0.1625	0.1632
σ		0.0090	0.0098	0.0091
%RSD		5.6382	6.0257	5.5574

K0911354-002 1/5L 12/13/2009 04:11:46 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:46	120.79%	-0.0017	0.2523	113.39%	-0.0162	0.9793	1.0917	112.9116
2	04:12:43	106.98%	0.0008	0.2610	107.56%	0.0212	0.9251	0.9673	110.2923
3	04:13:41	103.75%	-0.0009	0.2775	103.08%	0.0578	0.9910	0.9158	114.3478
x		110.51%	-0.0006	0.2636	108.01%	0.0209	0.9651	0.9916	112.5172
σ		9.05%	0.0013	0.0128	5.17%	0.0370	0.0351	0.0904	2.0563
%RSD		8.19	207.1636	4.8449	4.79	176.6828	3.6396	9.1203	1.8275

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:46	0.1224	0.6177	6.3583	0.3526	0.1776	0.1996	0.4506	2.2064
2	04:12:43	0.1220	0.6654	6.9840	0.3509	0.1964	0.1915	0.4907	2.1704
3	04:13:41	0.1259	0.6968	5.8033	0.3016	0.1901	0.1806	0.5088	2.0153
x		0.1234	0.6600	6.3819	0.3350	0.1881	0.1906	0.4834	2.1307
σ		0.0021	0.0398	0.5907	0.0289	0.0096	0.0095	0.0298	0.1016
%RSD		1.7201	6.0345	9.2567	8.6373	5.0926	4.9780	6.1691	4.7663

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:46	1.6651	104.64%	0.1970	0.1563	-0.1511	0.7789	0.6560	0.6878
2	04:12:43	1.5338	101.60%	-0.1185	0.2531	0.0777	-0.2609	0.6066	0.6016
3	04:13:41	1.6930	98.39%	-0.1360	0.1251	-0.0744	-0.4791	0.6971	0.6557
x		1.6307	101.54%	-0.0192	0.1782	-0.0493	0.0130	0.6532	0.6484
σ		0.0850	3.13%	0.1874	0.0667	0.1164	0.6722	0.0453	0.0436
%RSD		5.2120	3.08	977.7917	37.4585	236.3878	5177.7620	6.9328	6.7188

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:46	0.6176	100.00%	0.0021	-0.0011	0.0000	-0.0016	-0.0010	99.53%
2	04:12:43	0.6276	98.86%	0.0011	-0.0016	0.0000	-0.0004	-0.0010	99.45%
3	04:13:41	0.6995	96.72%	0.0001	-0.0005	0.0000	-0.0028	0.0001	97.61%
x		0.6483	98.53%	0.0011	-0.0011	0.0000	-0.0016	-0.0006	98.86%
σ		0.0447	1.67%	0.0010	0.0006	0.0000	0.0012	0.0006	1.09%
%RSD		6.8895	1.69	95.1805	52.6463	0.0000	76.4517	94.9597	1.10

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:46	0.0047	0.0044	39.7104	39.2938	39.9144	94.71%	0.0251	0.0227
2	04:12:43	0.0077	0.0113	39.1493	38.8961	38.9072	95.75%	0.0247	0.0331
3	04:13:41	0.0047	0.0095	38.5450	39.0701	39.2019	96.75%	0.0326	0.0284
x		0.0057	0.0084	39.1349	39.0867	39.3412	95.74%	0.0275	0.0281
σ		0.0018	0.0036	0.5828	0.1994	0.5178	1.02%	0.0044	0.0052
%RSD		30.8729	43.0306	1.4893	0.5100	1.3162	1.07	16.1245	18.5034

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:11:46	0.0291	0.0391	0.0332
2	04:12:43	0.0287	0.0467	0.0362
3	04:13:41	0.0309	0.0375	0.0345
x		0.0296	0.0411	0.0346
σ		0.0012	0.0049	0.0015
%RSD		3.9118	11.9081	4.4027

CCV10 12/13/2009 04:16:29 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:16:29	123.34%	26.0224	25.1943	112.87%	25.0360	25.1676	25.3266	25.0440
2	04:17:27	113.63%	24.3815	24.0288	106.88%	24.8155	24.6272	24.8370	24.8617
3	04:18:24	110.29%	24.0308	23.6811	105.34%	24.2469	23.8469	24.3207	23.8808
x		115.75%	24.8115	24.3014	108.36%	24.6995	24.5473	24.8281	24.5955
σ		6.78%	1.0632	0.7926	3.98%	0.4071	0.6640	0.5030	0.6257
%RSD		5.86	4.2850	3.2614	3.67	1.6484	2.7049	2.0260	2.5438

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:16:29	25.4034	25.2149	23.4896	24.9383	25.6028	24.7632	23.7550	22.4879
2	04:17:27	24.6785	24.8346	25.9058	24.5802	24.6938	24.7031	23.8309	24.2945
3	04:18:24	24.2055	24.6695	23.7843	24.5385	24.0822	23.9123	23.3063	22.8311
x		24.7625	24.9063	24.3933	24.6857	24.7929	24.4596	23.6308	23.2045
σ		0.6034	0.2797	1.3182	0.2198	0.7651	0.4749	0.2835	0.9595
%RSD		2.4367	1.1230	5.4039	0.8904	3.0861	1.9415	1.1997	4.1348

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:16:29	24.0353	106.25%	25.7696	25.1532	25.9418	25.8829	24.7305	25.3322
2	04:17:27	24.2517	101.90%	24.9457	25.0437	24.1049	26.6984	24.9274	25.6315
3	04:18:24	24.2183	102.79%	24.5355	24.1182	23.4695	23.6266	24.9709	24.8497
x		24.1684	103.65%	25.0836	24.7717	24.5054	25.4026	24.8763	25.2711
σ		0.1165	2.30%	0.6285	0.5686	1.2839	1.5912	0.1281	0.3945
%RSD		0.4820	2.22	2.5056	2.2953	5.2391	6.2638	0.5150	1.5610

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:16:29	24.8290	102.90%	25.7791	25.6670	24.5142	24.2423	24.7937	100.27%
2	04:17:27	24.8659	100.99%	25.2091	25.3363	24.5448	23.9665	23.8116	100.64%
3	04:18:24	24.5015	101.86%	25.0587	24.8763	24.2846	23.9483	23.8412	99.48%
x		24.7321	101.92%	25.3490	25.2932	24.4479	24.0524	24.1488	100.13%
σ		0.2006	0.96%	0.3800	0.3971	0.1422	0.1647	0.5587	0.59%
%RSD		0.8110	0.94	1.4993	1.5700	0.5816	0.6848	2.3135	0.59

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:16:29	24.5853	24.4112	25.1780	25.2679	25.2811	94.91%	25.3474	25.2824
2	04:17:27	23.9793	23.9736	24.3314	25.0045	24.5455	96.74%	24.8224	24.9018
3	04:18:24	24.3176	24.3061	25.3124	24.6404	24.8592	96.36%	25.2320	25.1390
x		24.2941	24.2303	24.9406	24.9710	24.8953	96.00%	25.1339	25.1077
σ		0.3037	0.2284	0.5318	0.3151	0.3691	0.97%	0.2759	0.1922
%RSD		1.2500	0.9428	2.1324	1.2618	1.4828	1.01	1.0978	0.7656

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:16:29	24.7641	24.4815	24.5484
2	04:17:27	24.4031	24.4154	24.2888
3	04:18:24	24.4404	24.5641	24.4914
x		24.5359	24.4870	24.4429
σ		0.1986	0.0745	0.1364
%RSD		0.8092	0.3042	0.5581

CCB10 12/13/2009 04:30:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:30:19	109.31%	0.0002	-0.0122	103.26%	0.0037	0.0458	-0.1310	0.0085
2	04:31:16	99.75%	-0.0015	-0.0118	96.79%	0.0185	0.0431	-0.1615	0.0101
3	04:32:14	96.58%	-0.0028	-0.0076	93.30%	0.0360	0.0628	-0.1618	0.0083
x		101.88%	-0.0014	-0.0105	97.78%	0.0194	0.0506	-0.1514	0.0090
σ		6.62%	0.0015	0.0026	5.05%	0.0162	0.0107	0.0177	0.0010
%RSD		6.50	106.6458	24.3288	5.17	83.3621	21.1453	11.6860	10.9785

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:30:19	-0.0024	0.0015	0.5612	-0.1090	-0.0261	-0.0143	-0.0678	-0.0202
2	04:31:16	-0.0027	0.0017	-0.4451	-0.1863	-0.0224	-0.0081	-0.0408	0.0162
3	04:32:14	-0.0002	0.0113	0.8569	-0.1453	-0.0294	-0.0157	-0.0480	-0.0355
x		-0.0018	0.0048	0.3244	-0.1469	-0.0260	-0.0127	-0.0522	-0.0132
σ		0.0014	0.0056	0.6826	0.0387	0.0035	0.0040	0.0140	0.0266
%RSD		79.2669	115.5701	210.4415	26.3352	13.5407	31.8095	26.8422	201.8429

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:30:19	-0.0394	95.18%	-0.0369	0.0368	0.1211	-0.0815	0.1287	0.1396
2	04:31:16	-0.0186	93.15%	0.0401	-0.0092	0.6499	0.1964	0.1843	0.1961
3	04:32:14	-0.0214	91.41%	0.0617	0.0424	0.4289	0.3051	0.2052	0.2066
x		-0.0265	93.24%	0.0216	0.0233	0.4000	0.1400	0.1727	0.1808
σ		0.0113	1.89%	0.0518	0.0283	0.2656	0.1993	0.0395	0.0360
%RSD		42.5821	2.02	239.6306	121.3358	66.3967	142.3943	22.8827	19.9318

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:30:19	0:1465	94.79%	0.0012	-0.0004	0.0000	0.0037	-0.0009	93.60%
2	04:31:16	0.2040	94.27%	0.0018	-0.0010	0.0000	0.0011	0.0023	92.55%
3	04:32:14	0.2201	92.09%	0.0024	0.0019	0.0000	0.0011	0.0002	92.28%
x		0.1902	93.72%	0.0018	0.0002	0.0000	0.0020	0.0005	92.81%
σ		0.0387	1.43%	0.0006	0.0015	0.0000	0.0015	0.0016	0.70%
%RSD		20.3659	1.53	33.4153	863.2007	0.0000	74.6990	313.1605	0.75

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:30:19	0.0009	0.0005	0.0006	-0.0018	0.0011	88.51%	0.0001	0.0014
2	04:31:16	0.0009	0.0027	-0.0071	0.0003	-0.0018	90.20%	0.0028	-0.0003
3	04:32:14	0.0001	0.0016	-0.0071	-0.0018	-0.0002	90.28%	0.0033	0.0025
x		0.0006	0.0016	-0.0045	-0.0011	-0.0003	89.66%	0.0021	0.0012
σ		0.0005	0.0011	0.0044	0.0012	0.0015	1.00%	0.0018	0.0014
%RSD		77.8477	68.0712	97.1839	114.1566	497.1076	1.11	85.1743	117.9104

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:30:19	-0.0025	-0.0014	-0.0023
2	04:31:16	-0.0015	-0.0007	-0.0009
3	04:32:14	-0.0036	0.0014	-0.0009
x		-0.0025	-0.0002	-0.0014
σ		0.0011	0.0015	0.0008
%RSD		42.2793	595.2527	60.3414

K0911354-002A 12/13/2009 04:35:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:02	116.92%	21.6243	21.2708	105.03%	22.2312	26.3430	26.4937	626.2889
2	04:35:59	109.90%	20.7605	19.8806	106.86%	20.5339	24.3654	25.3304	581.4976
3	04:36:56	102.68%	20.6930	20.3769	106.13%	20.8383	23.6847	23.7486	579.5041
x		109.84%	21.0259	20.5094	106.01%	21.2011	24.7977	25.1909	595.7635
σ		7.12%	0.5193	0.7045	0.92%	0.9049	1.3809	1.3778	26.4545
%RSD		6.48	2.4699	3.4351	0.87	4.2682	5.5686	5.4696	4.4404

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:02	22.6873	24.4697	58.5005	23.8891	22.0883	22.8980	21.0805	28.2937
2	04:35:59	20.4076	22.3768	49.3962	22.4861	20.7160	20.8841	19.7458	26.4565
3	04:36:56	20.9420	23.5435	48.4409	22.6010	21.2778	21.2971	20.3242	27.4639
x		21.3457	23.4633	52.1125	22.9920	21.3607	21.6931	20.3835	27.4047
σ		1.1922	1.0488	5.5527	0.7790	0.6899	1.0637	0.6693	0.9201
%RSD		5.5852	4.4697	10.6552	3.3880	3.2298	4.9034	3.2837	3.3573

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:02	27.9779	91.53%	23.5772	23.4317	23.8398	23.8802	26.7014	27.2388
2	04:35:59	24.8351	93.91%	22.5615	22.1064	21.7518	23.5716	25.3649	25.8627
3	04:36:56	26.5808	91.66%	22.8405	20.2340	20.6331	22.7270	26.0555	26.4338
x		26.4646	92.37%	22.9931	21.9240	22.0749	23.3929	26.0406	26.5118
σ		1.5746	1.34%	0.5248	1.6067	1.6276	0.5970	0.6684	0.6913
%RSD		5.9498	1.45	2.2824	7.3283	7.3731	2.5522	2.5666	2.6077

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:02	26.7970	86.54%	10.2288	9.9814	21.5785	22.9520	21.8884	89.02%
2	04:35:59	25.6180	90.70%	9.5905	9.3966	20.2701	21.0960	20.5273	94.91%
3	04:36:56	25.3947	91.35%	9.6116	9.3706	20.1062	21.0858	20.4990	93.94%
x		25.9366	89.53%	9.8103	9.5829	20.6516	21.7113	20.9716	92.62%
σ		0.7535	2.61%	0.3626	0.3454	0.8069	1.0745	0.7941	3.16%
%RSD		2.9051	2.91	3.6959	3.6046	3.9073	4.9490	3.7867	3.41

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:35:02	22.3089	22.3345	232.9393	229.3159	234.8427	87.24%	22.1428	22.1387
2	04:35:59	20.8787	20.5537	214.7316	212.6723	216.5354	93.27%	21.0185	20.9512
3	04:36:56	20.9920	21.0659	217.9698	214.7538	218.6264	92.90%	21.3722	21.4636
x		21.3932	21.3180	221.8802	218.9140	223.3349	91.14%	21.5112	21.5178
σ		0.7950	0.9167	9.7133	9.0682	10.0208	3.38%	0.5749	0.5956
%RSD		3.7163	4.3003	4.3777	4.1424	4.4869	3.71	2.6725	2.7680

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:35:02	21.3841	21.1869	21.2971
2	04:35:59	19.9617	20.2365	20.0460
3	04:36:56	20.1948	20.3514	20.2555
x		20.5135	20.5916	20.5329
σ		0.7629	0.5188	0.6701
%RSD		3.7191	2.5193	3.2635

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:41:07	121.41%	0.0068	6.3499	111.12%	1.1762	0.9109	3.0236	271.9020
2	04:42:05	108.77%	0.0073	6.0796	101.96%	1.0995	0.9807	3.0622	270.2149
3	04:43:02	102.16%	0.0061	6.8745	95.48%	1.0941	0.9837	2.9453	278.1628
x		110.78%	0.0067	6.4347	102.85%	1.1233	0.9584	3.0103	273.4266
σ		9.78%	0.0006	0.4042	7.86%	0.0459	0.0412	0.0596	4.1876
%RSD		8.83	9.3037	6.2812	7.64	4.0886	4.2965	1.9787	1.5315

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:41:07	1.1856	4.2776	38.2173	9.4945	2.4021	0.4508	0.5304	22.9847
2	04:42:05	1.0870	4.4889	34.1005	12.6992	2.6861	0.4881	0.4596	23.1506
3	04:43:02	1.1140	4.3850	33.1391	13.9981	2.7672	0.4647	0.5731	22.1968
x		1.1289	4.3838	35.1523	12.0639	2.6185	0.4679	0.5211	22.7774
σ		0.0510	0.1056	2.6975	2.3180	0.1917	0.0189	0.0573	0.5096
%RSD		4.5162	2.4100	7.6738	19.2145	7.3226	4.0294	11.0032	2.2373

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:41:07	17.4169	83.74%	21.9592	2.9785	1.3710	31.7291	13.6907	13.9618
2	04:42:05	17.6769	78.68%	21.4237	2.3466	2.1633	30.9417	13.9354	14.3981
3	04:43:02	17.4229	77.08%	20.1792	1.8658	1.9308	28.1097	14.6514	13.8526
x		17.5056	79.84%	21.1874	2.3970	1.8217	30.2602	14.0925	14.0708
σ		0.1484	3.48%	0.9132	0.5581	0.4073	1.9035	0.4993	0.2887
%RSD		0.8478	4.36	4.3102	23.2834	22.3554	6.2906	3.5429	2.0516

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:41:07	13.8028	77.46%	0.0011	0.0014	0.0090	0.0220	0.0191	78.93%
2	04:42:05	13.6497	74.23%	0.0040	0.0016	0.0125	0.0262	0.0083	76.08%
3	04:43:02	13.9578	71.81%	0.0070	0.0075	0.0160	0.0120	0.0150	74.79%
x		13.8035	74.50%	0.0040	0.0035	0.0125	0.0200	0.0141	76.60%
σ		0.1541	2.84%	0.0029	0.0035	0.0035	0.0073	0.0054	2.12%
%RSD		1.1161	3.81	73.0088	99.4967	27.8504	36.3730	38.3756	2.76

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:41:07	0.4992	0.4543	670.3290	667.8850	697.4410	78.18%	0.0083	0.0073
2	04:42:05	0.4822	0.5394	675.5270	672.5479	699.4079	77.59%	0.0135	0.0097
3	04:43:02	0.5047	0.4828	676.0672	672.4016	696.9720	78.04%	0.0094	0.0059
x		0.4954	0.4922	673.9744	670.9448	697.9403	77.94%	0.0104	0.0076
σ		0.0117	0.0434	3.1685	2.6509	1.2924	0.31%	0.0027	0.0019
%RSD		2.3685	8.8085	0.4701	0.3951	0.1852	0.40	26.3266	25.0922

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:41:07	0.0834	0.1141	0.1004
2	04:42:05	0.1003	0.1050	0.1021
3	04:43:02	0.1090	0.0871	0.0984
x		0.0976	0.1021	0.1003
σ		0.0130	0.0137	0.0018
%RSD		13.3619	13.4443	1.8261

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:45:52	114.27%	0.0046	4.8512	108.34%	0.1342	26.2096	27.7067	338.3379
2	04:46:50	112.08%	0.0053	4.4744	104.50%	0.1603	25.6357	26.9288	320.3463
3	04:47:47	104.81%	0.0021	4.6549	98.79%	0.4505	26.1138	26.5109	334.1680
x		110.39%	0.0040	4.6602	103.88%	0.2484	25.9864	27.0488	330.9508
σ		4.95%	0.0017	0.1884	4.80%	0.1756	0.3075	0.6069	9.4174
%RSD		4.49	41.3605	4.0437	4.63	70.6904	1.1832	2.2437	2.8456

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:45:52	3.4871	49.3518	78.5345	56.0336	2.6502	2.2963	0.5493	4.6748
2	04:46:50	3.2754	46.7866	72.1048	53.4770	2.5327	2.1271	0.5143	4.4474
3	04:47:47	3.4530	47.5146	74.5328	52.3737	2.3668	2.2425	0.5654	4.1562
x		3.4052	47.8843	75.0574	53.9615	2.5166	2.2220	0.5430	4.4262
σ		0.1137	1.3220	3.2468	1.8774	0.1424	0.0865	0.0262	0.2600
%RSD		3.3379	2.7607	4.3258	3.4792	5.6570	3.8923	4.8180	5.8733

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:45:52	3.3759	88.73%	0.2411	1.0290	1.1532	0.6485	2.0556	2.0336
2	04:46:50	3.5352	87.85%	0.4210	0.9352	1.2884	1.1487	2.0389	2.0396
3	04:47:47	3.3361	86.41%	0.1018	1.0011	0.9112	0.0011	1.9349	1.9487
x		3.4157	87.66%	0.2547	0.9884	1.1176	0.5994	2.0098	2.0073
σ		0.1053	1.17%	0.1600	0.0482	0.1911	0.5754	0.0654	0.0508
%RSD		3.0841	1.34	62.8474	4.8738	17.1004	95.9861	3.2554	2.5316

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:45:52	1.9857	85.18%	0.0015	0.0023	0.0055	0.0057	0.0118	85.17%
2	04:46:50	1.8670	84.74%	0.0021	0.0029	0.0055	0.0015	0.0026	85.18%
3	04:47:47	1.8587	85.10%	0.0057	-0.0008	0.0055	0.0057	0.0116	86.20%
x		1.9038	85.01%	0.0031	0.0015	0.0055	0.0043	0.0087	85.52%
σ		0.0710	0.24%	0.0023	0.0020	0.0000	0.0025	0.0052	0.59%
%RSD		3.7310	0.28	73.5187	136.1676	0.5004	57.0700	60.3072	0.69

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:45:52	0.0227	0.0205	110.2671	109.3293	110.1111	82.45%	0.0314	0.0336
2	04:46:50	0.0254	0.0216	108.4063	106.0466	107.3007	84.59%	0.0383	0.0345
3	04:47:47	0.0259	0.0213	105.2390	105.7912	106.4163	85.96%	0.0365	0.0369
x		0.0247	0.0211	107.9708	107.0557	107.9427	84.33%	0.0354	0.0350
σ		0.0017	0.0006	2.5422	1.9731	1.9293	1.77%	0.0035	0.0018
%RSD		6.9376	2.6477	2.3545	1.8431	1.7873	2.10	9.9983	5.0129

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:45:52	0.0853	0.0908	0.0969
2	04:46:50	0.0899	0.1081	0.0992
3	04:47:47	0.0924	0.1093	0.0987
x		0.0892	0.1028	0.0983
σ		0.0036	0.0104	0.0012
%RSD		4.0128	10.1003	1.2262

K0911354-005 12/13/2009 04:50:48 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:48	120.64%	0.0090	1.6365	110.91%	0.7011	0.5639	0.7862	308.4244
2	04:51:45	115.40%	0.0096	1.6592	102.29%	0.7868	0.6003	0.6871	305.1112
3	04:52:42	108.52%	0.0079	1.6479	101.14%	0.7212	0.5788	0.7791	302.0091
x		114.85%	0.0089	1.6478	104.78%	0.7364	0.5810	0.7508	305.1816
σ		6.08%	0.0008	0.0113	5.34%	0.0448	0.0183	0.0552	3.2082
%RSD		5.29	9.5070	0.6888	5.10	6.0818	3.1478	7.3584	1.0512

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:48	0.5693	2.7800	19.5635	13.1126	1.3200	0.2582	0.4212	11.0456
2	04:51:45	0.5222	2.5545	17.2172	17.1889	1.5670	0.1673	0.5053	10.7584
3	04:52:42	0.5263	2.5758	19.1987	17.4405	1.6601	0.2038	0.5137	10.9271
x		0.5393	2.6367	18.6598	15.9140	1.5157	0.2098	0.4801	10.9104
σ		0.0261	0.1245	1.2626	2.4293	0.1758	0.0457	0.0512	0.1443
%RSD		4.8412	4.7219	6.7664	15.2654	11.5961	21.8067	10.6603	1.3228

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:48	8.4050	89.35%	3.9309	0.8205	1.6633	4.3275	1.4429	1.5915
2	04:51:45	8.1915	83.65%	3.9981	0.7670	2.4513	4.3860	1.4714	1.5996
3	04:52:42	8.4324	83.48%	3.7847	0.6075	2.0408	3.6989	1.6243	1.4972
x		8.3430	85.49%	3.9046	0.7316	2.0518	4.1374	1.5128	1.5628
σ		0.1319	3.34%	0.1091	0.1108	0.3941	0.3809	0.0975	0.0569
%RSD		1.5805	3.91	2.7936	15.1488	19.2069	9.2073	6.4478	3.6421

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:48	1.4696	83.72%	0.0028	-0.0008	0.0028	0.0015	0.0027	84.07%
2	04:51:45	1.6331	81.50%	0.0016	0.0045	0.0086	0.0061	0.0064	82.00%
3	04:52:42	1.4697	79.68%	-0.0003	0.0019	0.0000	0.0122	0.0017	81.41%
x		1.5241	81.63%	0.0014	0.0019	0.0038	0.0066	0.0036	82.49%
σ		0.0944	2.02%	0.0015	0.0026	0.0044	0.0054	0.0025	1.39%
%RSD		6.1906	2.48	111.0254	139.8890	115.5035	81.1478	69.3355	1.69

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:50:48	0.4571	0.3962	288.7788	286.1167	290.2944	82.65%	0.0032	0.0063
2	04:51:45	0.4312	0.3871	289.0773	286.0608	290.2536	82.22%	0.0065	0.0059
3	04:52:42	0.4124	0.3714	286.7147	282.3482	288.2990	82.23%	0.0059	0.0029
x		0.4336	0.3849	288.1903	284.8419	289.6156	82.36%	0.0052	0.0050
σ		0.0224	0.0126	1.2865	2.1598	1.1405	0.25%	0.0017	0.0019
%RSD		5.1766	3.2651	0.4464	0.7582	0.3938	0.30	33.6245	37.2857

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:50:48	0.1573	0.1924	0.1733
2	04:51:45	0.1859	0.1747	0.1741
3	04:52:42	0.1900	0.1856	0.1788
x		0.1777	0.1843	0.1754
σ		0.0178	0.0089	0.0030
%RSD		10.0207	4.8524	1.7187

K0911354-005D 12/13/2009 04:55:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:55:33	122.63%	0.0084	1.9222	106.70%	0.7278	0.6056	0.7162	311.0428
2	04:56:31	109.16%	0.0079	1.6920	101.60%	0.6954	0.5834	0.6716	296.5648
3	04:57:28	105.04%	0.0077	1.7162	97.86%	0.7227	0.5879	0.5654	300.7057
x		112.28%	0.0080	1.7768	102.05%	0.7153	0.5923	0.6511	302.7711
σ		9.20%	0.0003	0.1265	4.44%	0.0174	0.0117	0.0775	7.4567
%RSD		8.20	4.3424	7.1201	4.35	2.4366	1.9792	11.8979	2.4628

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:55:33	0.5328	2.7615	17.4248	17.7006	1.5526	0.2534	0.4235	10.5583
2	04:56:31	0.5394	2.4698	19.0062	21.3117	1.9038	0.2584	0.4884	10.7147
3	04:57:28	0.5124	2.4797	14.7242	24.8158	2.0344	0.1879	0.4582	10.5226
x		0.5282	2.5703	17.0517	21.2760	1.8303	0.2332	0.4567	10.5985
σ		0.0141	0.1657	2.1653	3.5577	0.2491	0.0393	0.0325	0.1022
%RSD		2.6603	6.4454	12.6982	16.7216	13.6122	16.8596	7.1154	0.9644

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:55:33	8.9893	86.65%	3.9856	0.6392	1.8101	4.3208	1.5742	1.5234
2	04:56:31	8.3418	81.92%	3.7076	0.7859	2.0121	3.9062	1.5267	1.4966
3	04:57:28	8.2029	80.62%	3.7134	0.5736	2.4660	3.7170	1.5971	1.5700
x		8.5113	83.06%	3.8022	0.6662	2.0961	3.9813	1.5660	1.5300
σ		0.4197	3.17%	0.1588	0.1087	0.3360	0.3088	0.0359	0.0371
%RSD		4.9312	3.82	4.1776	16.3144	16.0279	7.7569	2.2955	2.4270

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:55:33	1.4853	79.96%	0.0010	-0.0000	0.0029	0.0047	0.0017	81.07%
2	04:56:31	1.5075	79.61%	0.0017	0.0039	0.0059	0.0078	-0.0019	80.82%
3	04:57:28	1.5047	78.31%	0.0030	-0.0007	0.0060	0.0002	0.0005	79.73%
x		1.4992	79.29%	0.0019	0.0011	0.0049	0.0042	0.0001	80.54%
σ		0.0121	0.87%	0.0010	0.0025	0.0017	0.0038	0.0018	0.71%
%RSD		0.8052	1.10	53.6627	231.1842	35.1008	89.2890	2277.2046	0.88

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:55:33	0.3996	0.4090	287.1157	281.8613	288.8426	80.79%	0.0061	0.0026
2	04:56:31	0.3946	0.4010	277.5314	274.9043	278.0939	81.62%	0.0039	0.0076
3	04:57:28	0.3984	0.4044	279.1148	276.7917	281.2059	81.72%	0.0022	0.0040
x		0.3975	0.4048	281.2539	277.8524	282.7141	81.38%	0.0041	0.0047
σ		0.0026	0.0040	5.1378	3.5977	5.5308	0.51%	0.0020	0.0026
%RSD		0.6570	0.9906	1.8267	1.2948	1.9563	0.63	48.0544	53.9725

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	04:55:33	0.1724	0.1842	0.1875
2	04:56:31	0.1694	0.1760	0.1657
3	04:57:28	0.1609	0.2072	0.1767
x		0.1676	0.1892	0.1766
σ		0.0060	0.0162	0.0109
%RSD		3.5649	8.5583	6.1773

K0911354-005S 12/13/2009 05:00:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:19	110.37%	20.2343	19.9954	93.91%	22.4531	21.6619	21.5441	340.6041
2	05:01:16	99.50%	20.1623	19.6743	90.50%	20.9435	20.3754	20.5574	333.2353
3	05:02:14	95.36%	19.3080	20.4213	88.17%	21.3496	20.6672	20.3808	337.3153
x		101.74%	19.9016	20.0303	90.86%	21.5821	20.9015	20.8274	337.0516
σ		7.75%	0.5153	0.3748	2.89%	0.7812	0.6745	0.6269	3.6914
%RSD		7.62	2.5891	1.8710	3.18	3.6196	3.2271	3.0099	1.0952

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:19	21.0143	22.7569	39.2426	52.8310	22.0076	19.6530	19.2699	30.5894
2	05:01:16	20.7331	21.7449	38.2545	54.3391	22.2062	19.9660	18.9229	29.3346
3	05:02:14	21.1056	22.2260	35.2270	58.8958	22.4171	19.9734	20.2016	29.4136
x		20.9510	22.2426	37.5747	55.3553	22.2103	19.8641	19.4648	29.7792
σ		0.1942	0.5062	2.0923	3.1575	0.2048	0.1829	0.6612	0.7027
%RSD		0.9267	2.2758	5.5685	5.7041	0.9221	0.9206	3.3971	2.3599

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:19	28.2994	79.30%	25.7361	20.0744	23.8825	24.0830	25.1052	25.1539
2	05:01:16	26.7892	76.73%	25.7860	20.2573	25.0390	25.2448	24.1680	24.1495
3	05:02:14	28.4103	74.79%	24.4819	21.4806	24.6698	23.5555	25.4423	25.2962
x		27.8330	76.94%	25.3346	20.6041	24.5304	24.2945	24.9052	24.8665
σ		0.9056	2.26%	0.7389	0.7645	0.5907	0.8643	0.6603	0.6250
%RSD		3.2538	2.94	2.9167	3.7106	2.4080	3.5576	2.6512	2.5133

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:19	24.5617	74.55%	19.9250	19.8359	20.5206	20.3244	20.0296	75.37%
2	05:01:16	24.4559	74.59%	19.0036	18.5522	19.2448	19.3373	19.1874	76.35%
3	05:02:14	25.4059	71.25%	19.4059	19.1992	20.1461	19.5970	19.5759	74.86%
x		24.8078	73.47%	19.4448	19.1958	19.9705	19.7529	19.5976	75.53%
σ		0.5206	1.92%	0.4619	0.6418	0.6558	0.5117	0.4215	0.76%
%RSD		2.0987	2.61	2.3756	3.3436	3.2839	2.5904	2.1507	1.00

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:19	21.7497	21.5978	324.2406	318.3414	323.2599	76.04%	20.1425	20.1940
2	05:01:16	20.4446	20.5541	310.8265	304.8233	309.2899	76.92%	19.6269	19.5446
3	05:02:14	21.1857	21.0168	315.0451	311.9858	315.0737	77.04%	19.9750	19.7705
x		21.1267	21.0562	316.7041	311.7168	315.8745	76.67%	19.9148	19.8363
σ		0.6546	0.5230	6.8592	6.7631	7.0193	0.54%	0.2631	0.3297
%RSD		3.0983	2.4839	2.1658	2.1696	2.2222	0.71	1.3209	1.6620

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:00:19	19.5301	19.6727	19.4338
2	05:01:16	19.1655	19.4297	19.2044
3	05:02:14	19.3297	19.5931	19.4188
x		19.3418	19.5652	19.3523
σ		0.1826	0.1239	0.1283
%RSD		0.9441	0.6334	0.6630

K0911354-006 12/13/2009 05:05:29 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:29	121.34%	0.0004	0.7832	103.30%	-0.0024	6.6240	7.0701	44.1285
2	05:06:27	103.04%	0.0028	0.9188	100.78%	0.1727	6.3347	6.3030	42.6581
3	05:07:24	100.23%	0.0075	0.8958	94.69%	0.0149	6.4000	6.9040	43.6200
x		108.20%	0.0036	0.8659	99.59%	0.0617	6.4529	6.7591	43.4688
σ		11.46%	0.0036	0.0726	4.43%	0.0965	0.1517	0.4036	0.7468
%RSD		10.59	100.6422	8.3840	4.44	156.2798	2.3512	5.9712	1.7179

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:29	0.3935	30.1275	55.3723	56.8510	2.0630	0.5116	0.1957	1.9636
2	05:06:27	0.3923	30.6071	58.8594	52.1924	1.7731	0.5559	0.2371	2.6250
3	05:07:24	0.3872	29.2269	53.9362	50.5565	1.7400	0.4935	0.2894	1.9676
x		0.3910	29.9871	56.0560	53.1999	1.8587	0.5203	0.2407	2.1854
σ		0.0034	0.7007	2.5318	3.2660	0.1777	0.0321	0.0470	0.3807
%RSD		0.8631	2.3367	4.5165	6.1391	9.5612	6.1703	19.5135	17.4209

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:29	1.8192	88.29%	0.2291	1.0443	2.6086	1.3525	1.5117	1.5322
2	05:06:27	1.5533	84.23%	0.2613	0.2184	2.4565	0.7075	1.4972	1.4481
3	05:07:24	1.5583	83.79%	0.2491	0.8223	2.3894	1.0730	1.4038	1.3845
x		1.6436	85.44%	0.2465	0.6950	2.4848	1.0443	1.4709	1.4550
σ		0.1521	2.48%	0.0163	0.4274	0.1123	0.3234	0.0586	0.0741
%RSD		9.2533	2.90	6.5987	61.5016	4.5196	30.9708	3.9809	5.0930

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:29	1.5058	81.22%	0.0067	0.0077	0.0086	0.0001	0.0028	83.16%
2	05:06:27	1.5137	82.60%	0.0072	0.0050	0.0028	0.0001	0.0027	83.24%
3	05:07:24	1.4149	80.59%	0.0189	0.0045	0.0087	0.0032	0.0089	81.04%
x		1.4782	81.47%	0.0109	0.0057	0.0067	0.0011	0.0048	82.48%
σ		0.0549	1.03%	0.0069	0.0017	0.0034	0.0018	0.0035	1.25%
%RSD		3.7164	1.26	63.4891	29.2703	50.0176	156.4385	73.8338	1.51

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:29	0.0140	0.0162	54.1482	53.2606	53.7228	81.60%	0.0044	0.0063
2	05:06:27	0.0140	0.0150	52.1929	52.4058	52.2580	83.58%	0.0052	0.0023
3	05:07:24	0.0172	0.0287	53.2470	52.5254	53.3436	83.29%	0.0094	0.0075
x		0.0150	0.0200	53.1960	52.7306	53.1082	82.82%	0.0063	0.0054
σ		0.0018	0.0076	0.9786	0.4629	0.7603	1.07%	0.0027	0.0027
%RSD		12.1730	38.0592	1.8397	0.8778	1.4315	1.29	42.7342	50.6860

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:05:29	0.0482	0.0682	0.0538
2	05:06:27	0.0586	0.0564	0.0578
3	05:07:24	0.0605	0.0582	0.0610
x		0.0558	0.0609	0.0576
σ		0.0066	0.0063	0.0036
%RSD		11.8709	10.3679	6.2739

K0911354-007 12/13/2009 05:10:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:10:15	122.74%	0.0004	0.4319	104.27%	0.0844	0.2286	0.1441	0.0347
2	05:11:13	120.43%	-0.0012	0.4223	101.44%	0.0640	0.2010	0.1382	0.0642
3	05:12:10	111.34%	-0.0011	0.4426	97.35%	0.0388	0.2236	0.1890	0.0562
x		118.17%	-0.0006	0.4323	101.02%	0.0624	0.2177	0.1571	0.0517
σ		6.03%	0.0009	0.0102	3.48%	0.0228	0.0147	0.0278	0.0153
%RSD		5.10	140.5649	2.3562	3.44	36.6259	6.7393	17.6723	29.5404

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:10:15	-0.0052	0.0192	0.7857	14.8397	0.7410	0.0232	0.1566	0.2169
2	05:11:13	-0.0033	0.0240	0.6262	12.7935	0.6614	0.0313	0.1199	0.1510
3	05:12:10	-0.0047	0.0156	0.9918	12.3958	0.5940	0.0095	0.1145	0.2621
x		-0.0044	0.0196	0.8012	13.3430	0.6655	0.0214	0.1303	0.2100
σ		0.0010	0.0042	0.1833	1.3114	0.0736	0.0110	0.0229	0.0559
%RSD		22.1603	21.5603	22.8781	9.8282	11.0627	51.7233	17.5546	26.5993

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:10:15	0.1175	95.53%	0.0784	0.2760	0.7086	0.5469	0.0959	0.1153
2	05:11:13	0.1885	95.01%	-0.0259	0.0374	1.0063	-0.0829	0.1175	0.0976
3	05:12:10	0.1596	92.85%	0.0173	-0.0084	0.9724	0.0171	0.0939	0.0935
x		0.1552	94.46%	0.0233	0.1016	0.8957	0.1604	0.1025	0.1021
σ		0.0357	1.42%	0.0524	0.1527	0.1630	0.3385	0.0131	0.0116
%RSD		23.0115	1.50	225.2585	150.2263	18.1958	211.0363	12.7921	11.3968

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:10:15	0.0787	93.01%	0.0013	-0.0003	0.0000	0.0012	0.0002	89.04%
2	05:11:13	0.0907	93.37%	-0.0010	-0.0004	0.0026	0.0039	-0.0009	90.39%
3	05:12:10	0.1015	91.77%	0.0013	0.0020	0.0000	-0.0028	0.0013	90.46%
x		0.0903	92.72%	0.0005	0.0004	0.0009	0.0008	0.0002	89.96%
σ		0.0114	0.84%	0.0013	0.0013	0.0015	0.0034	0.0011	0.80%
%RSD		12.6441	0.91	249.8757	317.3455	173.2051	447.9158	482.9421	0.89

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:10:15	0.0018	0.0006	0.0288	0.0274	0.0306	85.26%	-0.0038	0.0007
2	05:11:13	0.0009	0.0027	0.0668	0.0418	0.0514	89.47%	-0.0035	-0.0025
3	05:12:10	0.0018	0.0006	0.0125	0.0552	0.0380	87.76%	-0.0024	-0.0014
x		0.0015	0.0013	0.0360	0.0415	0.0400	87.49%	-0.0032	-0.0011
σ		0.0005	0.0012	0.0278	0.0139	0.0106	2.12%	0.0007	0.0016
%RSD		33.4661	95.5512	77.2992	33.5799	26.3681	2.42	22.9050	149.9029

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:10:15	-0.0030	0.0010	-0.0016
2	05:11:13	-0.0015	-0.0007	-0.0010
3	05:12:10	0.0003	-0.0006	-0.0009
x		-0.0014	-0.0001	-0.0012
σ		0.0016	0.0010	0.0004
%RSD		116.8967	778.6567	31.2003

K0911354-001 DISS 12/13/2009 05:15:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:02	123.52%	0.0036	1.3665	97.14%	1.2385	1.0344	1.7674	803.9043
2	05:15:59	107.39%	0.0008	1.3484	94.29%	1.2937	1.0602	1.4650	782.1771
3	05:16:57	103.69%	0.0003	1.3496	92.62%	1.1119	0.9473	1.6858	771.8945
x		111.53%	0.0016	1.3548	94.68%	1.2147	1.0140	1.6394	785.9920
σ		10.54%	0.0018	0.0101	2.28%	0.0932	0.0592	0.1564	16.3423
%RSD		9.45	111.0439	0.7473	2.41	7.6738	5.8359	9.5432	2.0792

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:02	1.7210	5.1686	32.7535	24.2932	2.2736	0.4492	1.5158	17.5944
2	05:15:59	1.6810	5.3492	30.9430	25.4212	2.5028	0.5041	1.4727	15.7807
3	05:16:57	1.6534	5.3150	29.1586	27.7561	2.5033	0.5239	1.6704	15.6263
x		1.6852	5.2776	30.9517	25.8235	2.4266	0.4924	1.5530	16.3338
σ		0.0340	0.0959	1.7975	1.7661	0.1325	0.0387	0.1040	1.0944
%RSD		2.0157	1.8178	5.8073	6.8393	5.4599	7.8601	6.6938	6.7004

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:02	12.7053	81.74%	7.7616	1.3653	2.0979	9.3574	18.0402	18.4254
2	05:15:59	13.0774	77.18%	8.0524	1.0830	2.8532	10.3692	18.3935	18.7099
3	05:16:57	12.0127	78.03%	8.0065	1.0120	2.9599	9.7532	17.9385	18.3486
x		12.5984	78.98%	7.9402	1.1534	2.6370	9.8266	18.1241	18.4946
σ		0.5404	2.43%	0.1563	0.1869	0.4699	0.5099	0.2388	0.1903
%RSD		4.2891	3.07	1.9685	16.2028	17.8206	5.1887	1.3176	1.0290

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:02	17.9696	74.49%	-0.0015	-0.0020	0.0344	0.0310	0.0160	76.03%
2	05:15:59	18.0984	73.23%	0.0019	-0.0005	0.0316	0.0134	0.0123	75.43%
3	05:16:57	18.1068	73.77%	0.0033	-0.0013	0.0125	0.0229	0.0210	76.48%
x		18.0582	73.83%	0.0012	-0.0013	0.0261	0.0224	0.0164	75.98%
σ		0.0769	0.63%	0.0025	0.0007	0.0119	0.0088	0.0044	0.53%
%RSD		0.4260	0.86	202.6715	57.2208	45.5493	39.1438	26.6852	0.69

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:15:02	0.2108	0.2356	418.9573	417.1778	427.4779	77.16%	0.0130	0.0186
2	05:15:59	0.1961	0.1967	421.5483	418.6321	427.0904	77.12%	0.0142	0.0147
3	05:16:57	0.2073	0.1773	410.1729	404.0292	416.1669	78.22%	0.0150	0.0148
x		0.2047	0.2032	416.8928	413.2797	423.5784	77.50%	0.0141	0.0160
σ		0.0077	0.0297	5.9621	8.0441	6.4214	0.62%	0.0010	0.0022
%RSD		3.7619	14.6024	1.4301	1.9464	1.5160	0.80	7.0579	13.9133

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:15:02	0.0261	0.0373	0.0305
2	05:15:59	0.0223	0.0249	0.0271
3	05:16:57	0.0313	0.0319	0.0290
x		0.0266	0.0314	0.0289
σ		0.0045	0.0063	0.0017
%RSD		16.8674	19.9457	5.9076

K0911354-002 DISS 12/13/2009 05:19:48 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:48	109.22%	0.0008	0.4658	100.83%	0.1599	0.2400	0.5763	522.4450
2	05:20:45	105.24%	0.0003	0.5189	97.17%	0.1430	0.2032	0.5942	510.3031
3	05:21:42	105.94%	0.0002	0.4439	98.60%	0.0729	0.2034	0.6887	509.3157
x		106.80%	0.0004	0.4762	98.87%	0.1253	0.2155	0.6197	514.0213
σ		2.12%	0.0003	0.0386	1.85%	0.0461	0.0212	0.0604	7.3118
%RSD		1.99	67.1919	8.1043	1.87	36.8040	9.8484	9.7486	1.4225

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:48	0.4473	2.8168	34.9919	19.6518	1.9253	0.9129	1.4299	8.8797
2	05:20:45	0.4765	2.7210	27.1557	18.0147	1.7332	0.8325	1.5150	8.2654
3	05:21:42	0.4472	2.4472	29.7892	16.3658	1.6548	0.8697	1.5366	8.4884
x		0.4570	2.6616	30.6456	18.0108	1.7711	0.8717	1.4938	8.5445
σ		0.0169	0.1918	3.9877	1.6430	0.1392	0.0403	0.0564	0.3109
%RSD		3.7025	7.2068	13.0123	9.1225	7.8576	4.6186	3.7763	3.6391

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:48	6.6326	84.76%	0.3296	0.8129	1.6081	1.3041	2.9841	2.9530
2	05:20:45	6.7319	83.14%	0.4469	0.5518	1.7390	1.4356	2.7822	2.9191
3	05:21:42	6.6368	81.97%	0.4471	0.7277	0.9695	1.3296	2.8754	2.8936
x		6.6671	83.29%	0.4078	0.6975	1.4389	1.3564	2.8805	2.9219
σ		0.0561	1.40%	0.0678	0.1332	0.4117	0.0697	0.1010	0.0298
%RSD		0.8420	1.68	16.6203	19.0942	28.6127	5.1407	3.5077	1.0205

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:48	2.9134	80.95%	0.0004	0.0012	0.0029	0.0002	0.0016	81.72%
2	05:20:45	2.9459	81.54%	0.0010	-0.0014	0.0086	0.0001	0.0027	83.37%
3	05:21:42	2.8927	80.60%	-0.0015	-0.0027	0.0000	0.0032	0.0040	81.56%
x		2.9173	81.03%	-0.0001	-0.0009	0.0038	0.0011	0.0028	82.22%
σ		0.0268	0.48%	0.0013	0.0020	0.0043	0.0017	0.0012	1.00%
%RSD		0.9189	0.59	1853.6445	211.8592	113.9853	152.9454	42.7459	1.22

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:48	0.0537	0.0298	201.9116	200.4711	201.8034	81.23%	0.1341	0.1338
2	05:20:45	0.0305	0.0374	195.4975	192.4356	194.4628	83.56%	0.1339	0.1202
3	05:21:42	0.0367	0.0442	195.4761	196.0364	197.5242	84.60%	0.1275	0.1352
x		0.0403	0.0371	197.6284	196.3144	197.9301	83.13%	0.1318	0.1298
σ		0.0120	0.0072	3.7094	4.0250	3.6871	1.73%	0.0038	0.0083
%RSD		29.7981	19.3203	1.8769	2.0503	1.8628	2.08	2.8631	6.3809

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:19:48	0.1219	0.1278	0.1246
2	05:20:45	0.1253	0.1164	0.1221
3	05:21:42	0.1094	0.1324	0.1250
x		0.1189	0.1256	0.1239
σ		0.0084	0.0082	0.0016
%RSD		7.0555	6.5540	1.2881

CCV11 12/13/2009 05:24:39 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:39	120.84%	25.1673	24.1588	99.05%	25.7557	26.1415	27.0933	25.7099
2	05:25:37	112.65%	24.8174	23.2253	96.11%	25.2339	25.1883	25.6456	24.7367
3	05:26:34	100.01%	27.1966	26.1156	88.77%	26.9788	26.7444	27.0600	26.8894
x		111.17%	25.7271	24.4999	94.64%	25.9895	26.0247	26.5996	25.7786
σ		10.49%	1.2846	1.4750	5.29%	0.8957	0.7846	0.8264	1.0780
%RSD		9.44	4.9933	6.0205	5.59	3.4462	3.0146	3.1067	4.1818

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:39	26.5122	26.1146	26.8045	38.3321	27.2937	26.1766	25.8970	24.2088
2	05:25:37	25.0859	25.8667	25.5538	36.2857	25.6506	25.3383	23.7863	23.9479
3	05:26:34	27.7495	27.2791	25.8730	37.5755	27.8000	26.9407	26.0227	25.2518
x		26.4492	26.4201	26.0771	37.3977	26.9148	26.1519	25.2354	24.4695
σ		1.3329	0.7541	0.6498	1.0347	1.1237	0.8015	1.2565	0.6899
%RSD		5.0395	2.8544	2.4919	2.7667	4.1750	3.0647	4.9790	2.8195

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:39	26.1847	90.18%	26.5612	24.6516	28.9177	24.1242	25.8081	26.1402
2	05:25:37	24.3455	90.68%	25.6068	23.0378	25.3474	26.0229	25.1355	25.5990
3	05:26:34	26.1160	85.43%	26.6065	25.2808	27.9453	25.7196	27.3022	27.5376
x		25.5487	88.77%	26.2582	24.3234	27.4035	25.2889	26.0820	26.4256
σ		1.0426	2.90%	0.5646	1.1569	1.8458	1.0200	1.1090	1.0003
%RSD		4.0807	3.27	2.1501	4.7565	6.7356	4.0336	4.2521	3.7853

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:39	26.0366	89.88%	26.4096	26.2570	25.3759	24.9839	24.9267	88.70%
2	05:25:37	25.2159	89.81%	26.0768	25.2242	24.9261	24.4824	24.5578	88.59%
3	05:26:34	27.4012	85.20%	26.7855	26.3820	26.5703	26.2569	26.0781	84.72%
x		26.2179	88.30%	26.4240	25.9544	25.6241	25.2411	25.1876	87.33%
σ		1.1039	2.68%	0.3545	0.6355	0.8498	0.9148	0.7930	2.27%
%RSD		4.2103	3.04	1.3417	2.4484	3.3163	3.6241	3.1483	2.59

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:39	25.1306	25.1240	26.0377	25.7517	25.8051	84.82%	25.8375	25.8216
2	05:25:37	24.6619	24.5116	25.3463	25.0019	25.3257	86.19%	25.5244	25.3995
3	05:26:34	26.3589	26.2832	26.7510	26.5588	26.4728	83.84%	27.0056	26.5884
x		25.3838	25.3062	26.0450	25.7708	25.8679	84.95%	26.1225	25.9365
σ		0.8764	0.8997	0.7023	0.7786	0.5761	1.18%	0.7806	0.6027
%RSD		3.4524	3.5554	2.6967	3.0214	2.2271	1.39	2.9883	2.3239

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:24:39	25.3541	25.1993	25.2115
2	05:25:37	25.0228	25.2639	25.0388
3	05:26:34	26.5014	26.5101	26.3931
x		25.6261	25.6577	25.5478
σ		0.7759	0.7388	0.7371
%RSD		3.0280	2.8796	2.8853

CCB11 12/13/2009 05:33:46 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:33:46	117.59%	-0.0017	-0.0171	95.94%	0.0373	0.0438	0.1179	0.0151
2	05:34:43	103.89%	-0.0003	0.0006	89.57%	0.0219	0.0538	0.1405	0.0107
3	05:35:41	94.30%	-0.0001	0.0132	85.28%	0.0373	0.0467	0.0668	0.0143
x		105.26%	-0.0007	-0.0011	90.27%	0.0321	0.0481	0.1084	0.0134
σ		11.70%	0.0009	0.0152	5.36%	0.0089	0.0051	0.0377	0.0023
%RSD		11.12	129.5713	1402.7605	5.94	27.7179	10.6392	34.8006	17.4411

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:33:46	-0.0041	-0.0005	0.7349	8.0227	0.3800	0.0172	-0.0344	0.0023
2	05:34:43	-0.0035	-0.0004	0.3847	7.8805	0.3665	0.0283	-0.0111	0.0840
3	05:35:41	-0.0039	-0.0029	0.7876	7.4686	0.3371	0.0120	-0.0281	0.0681
x		-0.0038	-0.0013	0.6358	7.7906	0.3612	0.0192	-0.0245	0.0514
σ		0.0003	0.0014	0.2190	0.2878	0.0219	0.0083	0.0120	0.0433
%RSD		8.7409	112.1258	34.4466	3.6939	6.0637	43.2414	49.0623	84.2402

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:33:46	-0.0155	88.07%	0.2407	0.0488	1.1490	0.9145	0.2136	0.1689
2	05:34:43	0.0010	83.65%	-0.0510	0.0021	0.5538	-0.1244	0.1812	0.2113
3	05:35:41	-0.0285	81.88%	-0.0897	-0.0513	0.4411	-0.3708	0.1841	0.2121
x		-0.0143	84.53%	0.0333	-0.0001	0.7146	0.1398	0.1930	0.1974
σ		0.0148	3.19%	0.1806	0.0501	0.3804	0.6821	0.0179	0.0247
%RSD		103.2424	3.77	542.4746	56146.4770	53.2305	488.1055	9.3000	12.5233

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:33:46	0.1646	86.30%	0.0027	0.0042	0.0000	0.0015	0.0004	83.05%
2	05:34:43	0.1920	83.48%	0.0022	0.0037	0.0000	-0.0014	-0.0019	83.45%
3	05:35:41	0.1976	83.52%	0.0016	0.0012	0.0029	-0.0013	-0.0007	81.03%
x		0.1848	84.43%	0.0022	0.0030	0.0010	-0.0004	-0.0008	82.51%
σ		0.0177	1.62%	0.0006	0.0016	0.0017	0.0017	0.0012	1.30%
%RSD		9.5597	1.91	26.0878	53.2212	173.2051	423.7639	154.1710	1.57

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:33:46	0.0011	0.0008	-0.0071	-0.0015	0.0006	80.51%	0.0002	0.0031
2	05:34:43	0.0001	-0.0004	-0.0071	-0.0016	0.0005	82.37%	0.0064	0.0050
3	05:35:41	0.0002	-0.0004	-0.0071	0.0009	0.0029	81.54%	0.0033	0.0038
x		0.0005	-0.0000	-0.0071	-0.0007	0.0013	81.48%	0.0033	0.0040
σ		0.0005	0.0007	0.0000	0.0014	0.0013	0.93%	0.0031	0.0010
%RSD		113.3927	2423.9868	0.0000	191.1560	99.1716	1.14	93.8264	24.8700

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:33:46	-0.0017	-0.0027	-0.0013
2	05:34:43	-0.0018	-0.0020	-0.0017
3	05:35:41	-0.0041	0.0004	-0.0007
x		-0.0025	-0.0014	-0.0012
σ		0.0014	0.0016	0.0005
%RSD		54.4903	116.0420	42.2679

K0911354-003 DISS 12/13/2009 05:38:38 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:38:38	103.72%	0.0060	2.4288	87.08%	0.9662	0.9753	3.2734	274.6013
2	05:39:36	88.13%	0.0067	2.4922	84.23%	0.9492	0.9083	3.0769	265.5227
3	05:40:34	87.81%	0.0053	2.4188	82.34%	1.0779	0.9638	2.8860	268.1402
x		93.22%	0.0060	2.4466	84.55%	0.9977	0.9491	3.0788	269.4214
σ		9.10%	0.0007	0.0398	2.39%	0.0699	0.0358	0.1937	4.6729
%RSD		9.76	11.8534	1.6257	2.82	7.0085	3.7751	6.2930	1.7344

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:38:38	1.0241	4.4074	31.8990	23.1896	3.2872	0.3547	1.4232	22.8389
2	05:39:36	1.0063	4.1860	28.6449	26.2203	3.4507	0.3524	1.5667	22.5074
3	05:40:34	1.0083	4.4557	34.0271	27.8022	3.5689	0.3497	1.4925	21.0927
x		1.0129	4.3497	31.5237	25.7374	3.4356	0.3523	1.4941	22.1463
σ		0.0098	0.1438	2.7107	2.3439	0.1414	0.0025	0.0717	0.9274
%RSD		0.9638	3.3064	8.5988	9.1071	4.1164	0.7119	4.8022	4.1877

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:38:38	17.7222	70.98%	19.8033	2.3641	2.2865	27.3362	11.9009	11.9619
2	05:39:36	17.4076	68.06%	18.9886	2.3128	3.1932	26.0275	11.5906	11.5852
3	05:40:34	16.8365	67.29%	19.6694	1.6007	2.7856	27.1983	11.6948	11.7878
x		17.3221	68.78%	19.4871	2.0925	2.7551	26.8540	11.7288	11.7783
σ		0.4490	1.95%	0.4369	0.4267	0.4541	0.7191	0.1579	0.1885
%RSD		2.5921	2.83	2.2419	20.3912	16.4829	2.6777	1.3465	1.6007

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:38:38	11.5908	65.56%	0.0031	-0.0003	0.0070	0.0152	0.0066	68.44%
2	05:39:36	11.2690	65.78%	0.0047	0.0013	0.0106	0.0099	0.0024	67.54%
3	05:40:34	11.4391	63.50%	0.0064	-0.0003	0.0178	0.0063	0.0038	67.96%
x		11.4330	64.95%	0.0047	0.0003	0.0118	0.0104	0.0043	67.98%
σ		0.1610	1.26%	0.0017	0.0009	0.0055	0.0045	0.0022	0.45%
%RSD		1.4080	1.94	34.8080	362.3854	46.5685	42.7399	50.2461	0.66

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:38:38	0.4790	0.4702	653.3405	651.0740	671.6501	71.61%	0.0164	0.0118
2	05:39:36	0.5287	0.4654	645.8032	637.9423	662.8295	71.79%	0.0059	0.0047
3	05:40:34	0.4818	0.4108	639.4596	635.5433	654.8768	71.95%	0.0029	0.0024
x		0.4965	0.4488	646.2011	641.5199	663.1188	71.78%	0.0084	0.0063
σ		0.0279	0.0330	6.9490	8.3606	8.3904	0.17%	0.0071	0.0049
%RSD		5.6216	7.3515	1.0754	1.3032	1.2653	0.24	84.3649	77.0037

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:38:38	0.0048	0.0065	0.0073
2	05:39:36	0.0034	0.0055	0.0052
3	05:40:34	0.0041	0.0028	0.0033
x		0.0041	0.0050	0.0053
σ		0.0007	0.0019	0.0020
%RSD		16.8826	38.0132	37.1176

K0911354-004 DISS 12/13/2009 05:43:27 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:43:27	109.26%	-0.0022	0.6820	95.65%	0.1785	0.2797	0.8206	64.7836
2	05:44:25	96.55%	0.0026	0.6974	87.15%	0.1958	0.2717	0.6237	64.7270
3	05:45:22	92.39%	-0.0021	0.7050	84.92%	0.1357	0.2868	0.9602	65.3368
x		99.40%	-0.0006	0.6948	89.24%	0.1700	0.2794	0.8015	64.9491
σ		8.79%	0.0027	0.0117	5.67%	0.0309	0.0076	0.1690	0.3369
%RSD		8.84	468.8674	1.6888	6.35	18.1941	2.7098	21.0901	0.5188

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:43:27	0.2229	18.9832	45.4968	36.0034	1.5028	0.5418	1.8846	5.3196
2	05:44:25	0.2006	18.8620	42.1784	34.6529	1.5161	0.5107	1.8256	5.4823
3	05:45:22	0.2158	17.7393	42.7063	33.0746	1.3502	0.5012	1.5265	5.0723
x		0.2131	18.5282	43.4605	34.5770	1.4563	0.5179	1.7456	5.2914
σ		0.0114	0.6858	1.7831	1.4659	0.0922	0.0212	0.1920	0.2064
%RSD		5.3629	3.7016	4.1028	4.2394	6.3287	4.0979	10.9999	3.9008

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:43:27	4.4408	77.07%	0.2037	0.8410	2.4337	0.7518	2.2026	2.2351
2	05:44:25	4.9836	74.20%	0.3006	0.9976	2.2240	1.2620	2.0042	2.1010
3	05:45:22	4.4465	73.40%	-0.2197	0.9485	2.4219	-0.5840	2.1755	2.2558
x		4.6236	74.89%	0.0949	0.9290	2.3599	0.4766	2.1274	2.1973
σ		0.3117	1.93%	0.2767	0.0801	0.1178	0.9533	0.1076	0.0841
%RSD		6.7421	2.57	291.6807	8.6208	4.9923	200.0314	5.0569	3.8255

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:43:27	2.1136	75.32%	-0.0002	-0.0027	0.0062	0.0100	0.0019	76.32%
2	05:44:25	2.1728	73.58%	0.0033	-0.0005	0.0000	0.0036	0.0019	75.84%
3	05:45:22	2.1116	72.47%	-0.0008	-0.0005	0.0032	0.0037	-0.0019	75.04%
x		2.1326	73.79%	0.0008	-0.0012	0.0031	0.0058	0.0006	75.73%
σ		0.0348	1.44%	0.0022	0.0012	0.0031	0.0036	0.0022	0.65%
%RSD		1.6306	1.95	291.7325	99.4343	99.1977	62.8903	353.9461	0.86

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:43:27	0.0274	0.0255	104.4460	103.7439	103.8032	76.17%	0.0795	0.0743
2	05:44:25	0.0275	0.0283	103.4689	102.2645	102.1369	77.03%	0.0723	0.0704
3	05:45:22	0.0217	0.0128	101.7370	101.0606	101.2455	77.16%	0.0648	0.0770
x		0.0255	0.0222	103.2173	102.3563	102.3952	76.79%	0.0722	0.0739
σ		0.0033	0.0083	1.3719	1.3440	1.2982	0.54%	0.0074	0.0033
%RSD		13.0934	37.1922	1.3292	1.3131	1.2679	0.70	10.2216	4.5075

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:43:27	0.0176	0.0117	0.0204
2	05:44:25	0.0161	0.0182	0.0174
3	05:45:22	0.0236	0.0182	0.0209
x		0.0191	0.0160	0.0196
σ		0.0040	0.0037	0.0019
%RSD		20.8251	23.2957	9.7938

K0911354-005 DISS 12/13/2009 05:48:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:12	115.46%	0.0062	1.4515	98.62%	0.7208	0.5791	1.0428	322.6874
2	05:49:09	108.90%	0.0080	1.3432	93.84%	0.7208	0.6103	0.7961	309.6219
3	05:50:07	102.43%	0.0112	1.4450	91.01%	0.7459	0.5853	0.7776	320.8759
x		108.93%	0.0085	1.4132	94.49%	0.7292	0.5916	0.8722	317.7284
σ		6.52%	0.0025	0.0608	3.85%	0.0145	0.0165	0.1480	7.0786
%RSD		5.98	29.5511	4.3005	4.07	1.9895	2.7940	16.9744	2.2279

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:12	0.5572	2.5739	20.0259	20.6764	1.7421	0.2308	1.4385	12.6865
2	05:49:09	0.5514	2.4107	18.2426	22.3072	1.8166	0.2467	1.6532	12.5808
3	05:50:07	0.5537	2.5830	19.1229	26.4360	2.0836	0.2177	1.4578	12.0223
x		0.5541	2.5225	19.1305	23.1399	1.8808	0.2317	1.5165	12.4299
σ		0.0029	0.0969	0.8916	2.9687	0.1796	0.0145	0.1187	0.3569
%RSD		0.5251	3.8429	4.6609	12.8294	9.5470	6.2678	7.8294	2.8714

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:12	9.5803	77.34%	4.2046	0.6619	1.6300	3.3489	1.4026	1.4880
2	05:49:09	9.1157	75.04%	4.1042	0.5027	2.2876	3.5780	1.4641	1.4623
3	05:50:07	9.3808	74.22%	3.7049	0.5098	3.1207	3.2567	1.5256	1.5272
x		9.3589	75.53%	4.0046	0.5581	2.3461	3.3945	1.4641	1.4925
σ		0.2331	1.62%	0.2643	0.0900	0.7470	0.1655	0.0615	0.0327
%RSD		2.4905	2.14	6.5999	16.1175	31.8422	4.8747	4.2006	2.1883

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:12	1.3628	74.90%	0.0005	-0.0027	0.0000	0.0021	0.0046	74.32%
2	05:49:09	1.4102	72.69%	-0.0008	0.0009	0.0032	0.0021	0.0020	74.25%
3	05:50:07	1.3959	71.70%	0.0006	-0.0012	0.0000	0.0072	-0.0006	72.90%
x		1.3896	73.10%	0.0001	-0.0010	0.0011	0.0038	0.0020	73.82%
σ		0.0243	1.64%	0.0008	0.0018	0.0018	0.0030	0.0026	0.80%
%RSD		1.7522	2.24	832.1947	184.8710	173.2051	77.8521	129.9172	1.08

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:12	0.4691	0.3736	284.8361	282.4514	287.9858	75.43%	-0.0017	-0.0010
2	05:49:09	0.3733	0.4265	278.5135	278.1144	280.0905	76.13%	0.0006	-0.0006
3	05:50:07	0.3686	0.4059	285.8532	282.1011	286.9338	74.91%	-0.0004	0.0004
x		0.4037	0.4020	283.0676	280.8890	285.0034	75.49%	-0.0005	-0.0004
σ		0.0568	0.0267	3.9766	2.4092	4.2871	0.61%	0.0011	0.0008
%RSD		14.0607	6.6301	1.4048	0.8577	1.5042	0.81	227.3352	182.1516

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:48:12	0.0082	0.0110	0.0068
2	05:49:09	0.0074	0.0067	0.0079
3	05:50:07	0.0102	0.0111	0.0097
x		0.0086	0.0096	0.0082
σ		0.0014	0.0025	0.0015
%RSD		16.8050	26.5020	17.9053

K0911354-006 DISS 12/13/2009 05:53:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:03	104.05%	-0.0003	1.6965	89.26%	0.0262	0.3740	0.8563	46.3389
2	05:54:01	93.33%	-0.0014	1.6115	83.05%	0.0761	0.3849	0.8313	46.6766
3	05:54:58	85.53%	-0.0005	1.6123	80.64%	0.0868	0.3418	0.7697	45.6480
x		94.30%	-0.0008	1.6401	84.32%	0.0630	0.3669	0.8191	46.2212
σ		9.30%	0.0006	0.0488	4.45%	0.0323	0.0224	0.0446	0.5243
%RSD		9.86	78.0106	2.9765	5.28	51.3470	6.1049	5.4423	1.1343

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:03	0.3171	32.4037	62.0179	51.0783	1.3894	0.3825	2.1351	4.4040
2	05:54:01	0.2930	31.5752	56.0092	46.6169	1.2649	0.4432	1.7922	3.7293
3	05:54:58	0.2821	30.3436	54.4184	43.6012	1.1603	0.2810	1.9277	3.8059
x		0.2974	31.4408	57.4819	47.0988	1.2715	0.3689	1.9517	3.9797
σ		0.0179	1.0366	4.0081	3.7618	0.1147	0.0820	0.1727	0.3694
%RSD		6.0339	3.2970	6.9727	7.9870	9.0193	22.2192	8.8488	9.2823

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:03	3.3097	74.71%	0.3765	0.8065	2.7153	1.4750	1.2269	1.3616
2	05:54:01	3.2620	73.35%	0.1508	0.7620	2.0507	0.5035	1.3137	1.1920
3	05:54:58	3.5730	70.08%	0.1573	0.8010	2.7026	0.5622	1.3829	1.2737
x		3.3816	72.71%	0.2282	0.7898	2.4895	0.8469	1.3078	1.2758
σ		0.1675	2.38%	0.1285	0.0242	0.3801	0.5447	0.0782	0.0848
%RSD		4.9520	3.27	56.2933	3.0703	15.2677	64.3202	5.9759	6.6499

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:03	1.2683	74.45%	0.0040	-0.0020	0.0064	-0.0028	-0.0006	73.68%
2	05:54:01	1.3001	72.84%	0.0034	0.0046	0.0000	0.0005	0.0034	72.72%
3	05:54:58	1.2574	70.21%	0.0036	0.0056	0.0033	0.0040	-0.0006	71.66%
x		1.2753	72.50%	0.0037	0.0027	0.0032	0.0006	0.0007	72.69%
σ		0.0222	2.14%	0.0003	0.0041	0.0032	0.0034	0.0023	1.01%
%RSD		1.7394	2.95	8.5540	149.5932	98.7453	605.1407	312.4179	1.39

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:03	0.0127	0.0077	57.0936	56.4941	57.3761	74.32%	0.0008	0.0012
2	05:54:01	0.0182	0.0092	57.2543	56.1398	57.0847	74.20%	0.0032	0.0039
3	05:54:58	0.0173	0.0216	56.5303	56.4122	56.4288	75.66%	0.0001	0.0018
x		0.0161	0.0129	56.9594	56.3487	56.9632	74.73%	0.0013	0.0023
σ		0.0029	0.0076	0.3802	0.1855	0.4852	0.81%	0.0016	0.0014
%RSD		18.1484	59.3367	0.6674	0.3292	0.8517	1.09	120.7227	61.4976

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:53:03	0.0234	0.0277	0.0246
2	05:54:01	0.0221	0.0260	0.0278
3	05:54:58	0.0273	0.0322	0.0281
x		0.0243	0.0286	0.0268
σ		0.0027	0.0032	0.0019
%RSD		11.2999	11.2133	7.2705

K0911354-007 DISS 12/13/2009 05:57:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:49	117.40%	-0.0000	0.2824	97.77%	0.0376	0.2504	0.4088	0.0271
2	05:58:46	104.86%	-0.0016	0.2987	90.56%	0.0377	0.2061	0.4108	0.1026
3	05:59:44	103.63%	-0.0022	0.2744	90.23%	0.0113	0.2074	0.4235	0.0614
x		108.63%	-0.0013	0.2851	92.85%	0.0289	0.2213	0.4144	0.0637
σ		7.62%	0.0011	0.0124	4.26%	0.0152	0.0252	0.0080	0.0378
%RSD		7.01	88.4265	4.3381	4.59	52.7346	11.3835	1.9256	59.3769

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:49	-0.0036	0.0280	0.1577	8.6661	0.4566	0.0232	0.0165	0.1491
2	05:58:46	-0.0019	0.0419	0.3437	7.7228	0.3922	0.0207	0.0363	0.0803
3	05:59:44	-0.0045	0.0545	-0.0280	6.6408	0.3284	0.0313	0.0364	-0.0144
x		-0.0034	0.0415	0.1578	7.6765	0.3924	0.0251	0.0297	0.0717
σ		0.0013	0.0132	0.1858	1.0135	0.0641	0.0055	0.0115	0.0821
%RSD		39.0197	31.8884	117.7641	13.2021	16.3248	22.1256	38.6261	114.5432

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:49	0.0260	87.94%	0.1426	0.0483	1.0516	0.3829	0.0517	0.0819
2	05:58:46	-0.0009	85.87%	-0.0295	0.2106	0.9333	0.0786	0.0687	0.0584
3	05:59:44	0.0420	85.83%	-0.0779	0.1053	0.8919	-0.3087	0.0513	0.0716
x		0.0224	86.54%	0.0117	0.1214	0.9589	0.0510	0.0573	0.0706
σ		0.0217	1.21%	0.1159	0.0823	0.0829	0.3466	0.0099	0.0118
%RSD		96.8865	1.40	987.0236	67.8071	8.6426	680.2929	17.3571	16.6772

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:49	0.0400	88.34%	-0.0015	-0.0021	0.0000	-0.0000	0.0003	85.76%
2	05:58:46	0.0531	86.46%	-0.0003	-0.0014	0.0028	0.0014	-0.0019	85.27%
3	05:59:44	0.0414	85.79%	0.0003	-0.0008	0.0028	-0.0014	0.0015	85.56%
x		0.0448	86.87%	-0.0005	-0.0014	0.0018	0.0000	-0.0000	85.53%
σ		0.0072	1.32%	0.0009	0.0006	0.0016	0.0014	0.0017	0.25%
%RSD		16.0198	1.52	169.5402	43.3118	86.6025	17582.8650	3936.6668	0.29

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:49	0.0001	0.0007	0.0094	0.0123	0.0151	82.80%	-0.0058	-0.0035
2	05:58:46	0.0019	-0.0005	0.0592	0.0865	0.0854	83.16%	-0.0027	-0.0048
3	05:59:44	0.0010	0.0007	0.0260	0.0378	0.0572	82.96%	-0.0027	-0.0033
x		0.0010	0.0003	0.0315	0.0455	0.0526	82.97%	-0.0037	-0.0038
σ		0.0009	0.0007	0.0253	0.0377	0.0354	0.18%	0.0018	0.0008
%RSD		87.8290	217.7948	80.2667	82.8816	67.3644	0.21	49.1894	21.4639

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	05:57:49	-0.0000	0.0004	-0.0002
2	05:58:46	-0.0000	-0.0004	-0.0003
3	05:59:44	-0.0035	-0.0035	-0.0022
x		-0.0012	-0.0012	-0.0009
σ		0.0020	0.0021	0.0011
%RSD		168.4012	170.8745	124.7448

K0910769-007 12/13/2009 06:02:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:43	105.02%	0.1167	5120.3377	89.03%	11.4165	13.0136	13.5488	207.2812
2	06:03:40	92.42%	0.1285	5186.2213	85.35%	11.5176	12.2544	12.5680	200.9194
3	06:04:38	99.23%	0.1139	5040.2196	88.37%	10.8873	11.9569	12.7949	201.7908
x		98.89%	0.1197	5115.5928	87.58%	11.2738	12.4083	12.9706	203.3305
σ		6.31%	0.0077	73.1164	1.96%	0.3385	0.5449	0.5135	3.4491
%RSD		6.38	6.4523	1.4293	2.24	3.0026	4.3911	3.9586	1.6963

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:43	6.7888	13.3447	18.7222	20.9357	16.3767	16.2712	32.2421	31.7145
2	06:03:40	6.7272	13.3285	19.1591	20.8488	16.2655	15.5679	31.8392	30.3043
3	06:04:38	6.8008	13.0567	19.7433	19.4876	16.1766	15.4462	30.3336	29.6553
x		6.7723	13.2433	19.2082	20.4240	16.2729	15.7618	31.4716	30.5580
σ		0.0395	0.1618	0.5124	0.8122	0.1003	0.4453	1.0060	1.0528
%RSD		0.5827	1.2217	2.6674	3.9766	0.6162	2.8254	3.1964	3.4453

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:43	32.3789	88.33%	3.6115	0.4275	0.3953	0.5126	1.3946	1.3847
2	06:03:40	31.5559	85.04%	3.7068	0.4455	0.7684	0.7281	1.3239	1.3308
3	06:04:38	30.6926	87.21%	3.4218	0.4278	0.1220	0.3916	1.3072	1.3781
x		31.5425	86.86%	3.5800	0.4336	0.4286	0.5441	1.3419	1.3646
σ		0.8433	1.67%	0.1451	0.0103	0.3245	0.1704	0.0464	0.0294
%RSD		2.6734	1.93	4.0524	2.3827	75.7180	31.3219	3.4543	2.1534

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:43	1.3712	73.43%	0.0408	0.0503	0.0549	0.0555	0.0528	72.88%
2	06:03:40	1.4731	72.28%	0.0351	0.0350	0.0394	0.0481	0.0782	71.58%
3	06:04:38	1.3382	76.81%	0.0430	0.0418	0.0433	0.0610	0.0760	76.06%
x		1.3942	74.17%	0.0396	0.0423	0.0459	0.0549	0.0690	73.51%
σ		0.0703	2.36%	0.0041	0.0077	0.0081	0.0065	0.0141	2.31%
%RSD		5.0440	3.18	10.3816	18.1455	17.5574	11.8576	20.4327	3.14

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:43	0.3929	0.3670	23.9103	24.1360	23.8261	72.70%	0.0154	0.0132
2	06:03:40	0.3999	0.3914	24.3837	23.7519	23.5409	73.55%	0.0140	0.0135
3	06:04:38	0.3720	0.3822	22.6031	22.6418	22.9883	76.60%	0.0126	0.0153
x		0.3883	0.3802	23.6324	23.5099	23.4518	74.28%	0.0140	0.0140
σ		0.0145	0.0124	0.9223	0.7759	0.4260	2.05%	0.0014	0.0011
%RSD		3.7368	3.2503	3.9027	3.3005	1.8164	2.76	10.1903	7.9870

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:02:43	5.0200	5.4385	5.2854
2	06:03:40	4.9382	5.4763	5.2364
3	06:04:38	4.8612	5.1683	5.0812
x		4.9398	5.3610	5.2010
σ		0.0794	0.1680	0.1066
%RSD		1.6067	3.1335	2.0493

K0910769-007 1/5L 12/13/2009 06:07:28 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:07:28	91.41%	0.0299	1120.1941	82.22%	2.4423	2.6472	3.2388	42.9603
2	06:08:26	89.43%	0.0212	1026.1268	78.32%	2.4492	2.7277	3.0450	43.1581
3	06:09:23	84.52%	0.0303	1054.1891	76.32%	2.4088	2.6801	2.9961	43.7745
x		88.45%	0.0271	1066.8366	78.95%	2.4334	2.6850	3.0933	43.2976
σ		3.55%	0.0051	48.2922	3.00%	0.0216	0.0405	0.1284	0.4247
%RSD		4.01	18.8357	4.5267	3.80	0.8880	1.5078	4.1499	0.9808

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:07:28	1.4890	2.9399	4.6770	9.7540	4.0103	3.9447	7.9161	7.3575
2	06:08:26	1.4916	2.8322	3.0217	9.2843	3.8391	3.2483	7.9580	7.0963
3	06:09:23	1.4533	2.8770	3.9079	9.1254	3.9162	3.5262	7.7605	7.6174
x		1.4780	2.8830	3.8689	9.3879	3.9219	3.5730	7.8782	7.3571
σ		0.0214	0.0541	0.8283	0.3269	0.0857	0.3505	0.1041	0.2605
%RSD		1.4500	1.8774	21.4105	3.4816	2.1853	9.8106	1.3208	3.5414

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:07:28	7.9651	77.76%	0.6896	0.1859	0.4437	-0.3225	0.3119	0.3446
2	06:08:26	8.0469	76.94%	0.8759	0.2498	0.8706	0.6672	0.3255	0.2786
3	06:09:23	7.9738	75.91%	0.9427	0.1938	0.8577	0.4517	0.3182	0.3495
x		7.9953	76.87%	0.8361	0.2098	0.7240	0.2655	0.3186	0.3242
σ		0.0449	0.92%	0.1312	0.0348	0.2429	0.5205	0.0068	0.0396
%RSD		0.5618	1.20	15.6872	16.5896	33.5446	196.0629	2.1339	12.2085

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:07:28	0.2706	77.39%	0.0066	0.0078	0.0188	0.0069	0.0111	74.15%
2	06:08:26	0.2640	74.78%	0.0026	0.0079	0.0094	0.0085	0.0135	75.53%
3	06:09:23	0.2444	74.56%	0.0109	0.0052	0.0190	0.0102	0.0111	74.48%
x		0.2597	75.58%	0.0067	0.0070	0.0157	0.0086	0.0119	74.72%
σ		0.0137	1.57%	0.0042	0.0016	0.0055	0.0017	0.0014	0.72%
%RSD		5.2590	2.08	62.2975	22.5260	34.8811	19.4538	11.6210	0.97

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:07:28	0.0735	0.0820	4.5867	4.6108	4.7266	75.74%	-0.0011	0.0006
2	06:08:26	0.0723	0.0767	4.5136	4.6366	4.5754	76.11%	0.0006	0.0008
3	06:09:23	0.0711	0.0802	4.6022	4.7139	4.6025	76.85%	-0.0006	0.0003
x		0.0723	0.0797	4.5675	4.6538	4.6348	76.23%	-0.0004	0.0005
σ		0.0012	0.0027	0.0473	0.0537	0.0806	0.57%	0.0009	0.0003
%RSD		1.7013	3.3841	1.0362	1.1532	1.7385	0.74	240.3191	49.5666

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:07:28	1.0119	1.0717	1.0403
2	06:08:26	0.9763	1.0588	1.0673
3	06:09:23	0.9555	1.1348	1.0518
x		0.9812	1.0885	1.0532
σ		0.0285	0.0406	0.0135
%RSD		2.9059	3.7341	1.2831

K0910769-007A 12/13/2009 06:12:13 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:12:13	108.70%	51.0919	5112.4141	97.88%	55.1154	55.4165	55.5173	234.7924
2	06:13:11	105.66%	46.1259	4877.7445	91.92%	56.1366	55.7203	58.3448	233.2963
3	06:14:08	97.90%	47.1656	5101.7683	90.16%	55.8688	56.2835	56.2120	233.1823
x		104.08%	48.1278	5030.6423	93.32%	55.7069	55.8068	56.6913	233.7570
σ		5.57%	2.6191	132.5203	4.05%	0.5295	0.4400	1.4734	0.8985
%RSD		5.35	5.4420	2.6343	4.34	0.9505	0.7884	2.5991	0.3844

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:12:13	51.5161	57.1745	64.0976	61.2034	60.6252	58.9034	72.4396	67.9957
2	06:13:11	49.8034	56.2870	62.2374	62.2426	58.2417	57.7632	70.1476	70.0796
3	06:14:08	50.1921	56.3580	58.5772	62.4336	59.7867	57.8490	72.1699	71.2269
x		50.5039	56.6065	61.6374	61.9599	59.5512	58.1719	71.5857	69.7674
σ		0.8979	0.4932	2.8087	0.6621	1.2091	0.6350	1.2527	1.6381
%RSD		1.7779	0.8713	4.5568	1.0686	2.0303	1.0915	1.7499	2.3479

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:12:13	70.6351	91.18%	48.3318	48.0941	46.2208	47.3102	49.1627	50.3583
2	06:13:11	70.8243	90.71%	48.1410	44.1463	44.5392	45.7236	50.7259	51.2250
3	06:14:08	71.7127	89.05%	48.2062	46.9867	45.8082	46.9357	51.8188	52.3366
x		71.0574	90.32%	48.2264	46.4091	45.5227	46.6565	50.5691	51.3066
σ		0.5754	1.12%	0.0970	2.0363	0.8764	0.8293	1.3350	0.9917
%RSD		0.8097	1.24	0.2011	4.3877	1.9252	1.7775	2.6399	1.9328

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:12:13	50.4587	78.63%	9.9388	9.7653	48.1603	50.0314	49.0041	78.77%
2	06:13:11	50.6302	77.11%	9.6245	9.6770	48.1962	49.8545	48.8791	79.31%
3	06:14:08	51.7026	75.99%	9.7000	9.6895	49.2301	50.6693	49.3524	77.96%
x		50.9305	77.24%	9.7544	9.7106	48.5289	50.1851	49.0785	78.68%
σ		0.6741	1.32%	0.1640	0.0478	0.6075	0.4286	0.2453	0.68%
%RSD		1.3237	1.71	1.6817	0.4918	1.2519	0.8540	0.4997	0.87

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:12:13	49.3125	49.0829	71.3707	70.0711	70.3578	76.35%	50.8244	51.2238
2	06:13:11	48.5750	48.2909	70.7299	71.0609	70.2803	77.66%	50.4257	50.8391
3	06:14:08	49.3998	49.5975	71.6446	71.0060	71.1294	78.26%	50.9622	50.7627
x		49.0957	48.9904	71.2484	70.7127	70.5892	77.43%	50.7374	50.9419
σ		0.4531	0.6582	0.4694	0.5563	0.4695	0.98%	0.2786	0.2471
%RSD		0.9229	1.3435	0.6589	0.7867	0.6651	1.26	0.5492	0.4851

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:12:13	53.2538	54.3103	53.9860
2	06:13:11	53.1873	54.3037	53.6478
3	06:14:08	53.4279	54.5974	53.9724
x		53.2897	54.4038	53.8688
σ		0.1242	0.1677	0.1914
%RSD		0.2331	0.3083	0.3554

K0911740-001 1/100 12/13/2009 06:17:57 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:57	111.95%	0.0171	337.9474	89.49%	0.0420	0.6148	0.8482	66.2201
2	06:18:55	103.01%	0.0271	325.0424	84.57%	-0.0025	0.5698	0.9777	67.1952
3	06:19:52	96.18%	0.0223	331.0091	84.33%	0.0019	0.5678	0.8336	66.7880
x		103.71%	0.0222	331.3330	86.13%	0.0138	0.5841	0.8865	66.7344
σ		7.91%	0.0050	6.4586	2.91%	0.0245	0.0265	0.0794	0.4897
%RSD		7.63	22.4473	1.9493	3.38	177.8228	4.5442	8.9514	0.7339

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:57	2.3496	14.4208	14.1537	19.4897	16.4609	16.0055	189.2410	172.2959
2	06:18:55	2.3592	14.2033	14.3727	18.2030	16.0349	15.5273	180.9415	169.7610
3	06:19:52	2.3177	14.4783	14.5111	18.3417	15.9905	15.4333	184.7599	167.8802
x		2.3422	14.3675	14.3458	18.6782	16.1621	15.6554	184.9808	169.9790
σ		0.0217	0.1451	0.1802	0.7063	0.2597	0.3069	4.1542	2.2159
%RSD		0.9262	1.0097	1.2562	3.7812	1.6070	1.9601	2.2457	1.3036

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:57	183.4245	84.48%	0.4675	0.1097	1.0780	0.8257	0.3244	0.3357
2	06:18:55	184.1206	81.30%	0.2202	0.1174	0.2246	-0.0539	0.2821	0.3236
3	06:19:52	178.5613	80.78%	0.0828	0.1186	0.2599	-0.5067	0.2766	0.2463
x		182.0355	82.19%	0.2568	0.1152	0.5208	0.0884	0.2944	0.3019
σ		3.0288	2.00%	0.1949	0.0049	0.4828	0.6775	0.0261	0.0485
%RSD		1.6639	2.44	75.9116	4.2114	92.6993	766.6099	8.8756	16.0727

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:57	0.3173	82.34%	0.0010	-0.0014	2.1713	2.1966	2.0676	81.22%
2	06:18:55	0.3263	80.65%	0.0023	0.0059	1.9706	2.0289	2.0720	80.53%
3	06:19:52	0.2625	80.51%	0.0017	0.0033	2.0281	2.1454	2.0467	79.96%
x		0.3020	81.17%	0.0016	0.0026	2.0567	2.1236	2.0621	80.57%
σ		0.0345	1.02%	0.0007	0.0037	0.1034	0.0859	0.0135	0.63%
%RSD		11.4178	1.26	40.1847	141.8102	5.0253	4.0473	0.6536	0.79

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:57	0.0077	0.0094	0.2580	0.2445	0.2533	79.20%	0.0081	0.0075
2	06:18:55	0.0173	0.0106	0.2709	0.2563	0.2726	80.73%	0.0154	0.0133
3	06:19:52	0.0155	0.0058	0.2758	0.2664	0.2913	81.39%	0.0152	0.0131
x		0.0135	0.0086	0.2682	0.2557	0.2724	80.44%	0.0129	0.0113
σ		0.0051	0.0025	0.0092	0.0110	0.0190	1.12%	0.0042	0.0033
%RSD		37.5908	29.3862	3.4197	4.2852	6.9741	1.39	32.4077	28.9023

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:17:57	0.0278	0.0371	0.0373
2	06:18:55	0.0404	0.0435	0.0455
3	06:19:52	0.0412	0.0328	0.0358
x		0.0364	0.0378	0.0395
σ		0.0075	0.0054	0.0052
%RSD		20.6641	14.1898	13.1639

K0911740-001 1/5 12/13/2009 06:22:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:49	105.17%	0.3638	6804.7574	94.65%	0.2065	9.6686	9.8987	1444.0108
2	06:23:47	90.01%	0.3185	6853.0064	90.85%	0.2139	9.3207	9.4827	1390.9709
3	06:24:44	92.64%	0.3032	6491.5337	88.12%	0.3611	9.7406	9.5636	1364.2237
x		95.94%	0.3285	6716.4325	91.21%	0.2605	9.5766	9.6484	1399.7351
σ		8.10%	0.0315	196.2565	3.28%	0.0872	0.2246	0.2206	40.6092
%RSD		8.44	9.5935	2.9220	3.59	33.4638	2.3449	2.2859	2.9012

SB 12/13/09

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:49	44.0268	267.5744	261.7974	272.4739	295.0111	287.9068	3367.8903	3037.0704
2	06:23:47	43.6160	266.2631	261.2087	269.7283	299.5878	296.5950	3432.9758	3121.8135
3	06:24:44	42.4981	261.3470	248.3409	261.6669	283.0236	279.0762	3316.3360	3019.1573
x		43.3803	265.0615	257.1156	267.9564	292.5408	287.8594	3372.4007	3059.3471
σ		0.7911	3.2830	7.6048	5.6171	8.5539	8.7595	58.4506	54.8339
%RSD		1.8237	1.2386	2.9578	2.0963	2.9240	3.0430	1.7332	1.7923

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:49	3356.7326	83.58%	4.2240	2.3882	0.8458	1.7506	0.2701	0.2647
2	06:23:47	3350.4591	79.40%	4.2920	2.2611	1.9039	1.7155	0.2754	0.2597
3	06:24:44	3296.8411	81.09%	3.9084	1.8808	1.0955	1.7376	0.2165	0.2480
x		3334.6776	81.36%	4.1415	2.1767	1.2818	1.7346	0.2540	0.2575
σ		32.9171	2.10%	0.2047	0.2640	0.5531	0.0177	0.0326	0.0086
%RSD		0.9871	2.58	4.9428	12.1307	43.1508	1.0218	12.8216	3.3319

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:49	0.2296	75.66%	0.0187	0.0104	41.3223	41.4038	41.0966	78.08%
2	06:23:47	0.2162	75.77%	0.0195	0.0106	40.9414	40.6538	40.9104	76.61%
3	06:24:44	0.2087	75.77%	0.0147	0.0077	40.6179	40.2559	40.9130	77.57%
x		0.2182	75.73%	0.0177	0.0096	40.9605	40.7712	40.9734	77.42%
σ		0.0106	0.06%	0.0026	0.0016	0.3526	0.5829	0.1067	0.75%
%RSD		4.8682	0.08	14.6624	16.8632	0.8608	1.4296	0.2605	0.97

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:22:49	0.0376	0.0389	5.0123	4.8798	5.0146	77.52%	0.1313	0.1412
2	06:23:47	0.0402	0.0433	4.6963	5.0823	5.0432	78.78%	0.1524	0.1345
3	06:24:44	0.0357	0.0237	4.7630	4.9741	5.0013	79.77%	0.1472	0.1440
x		0.0378	0.0353	4.8239	4.9787	5.0197	78.69%	0.1436	0.1399
σ		0.0022	0.0103	0.1666	0.1014	0.0214	1.13%	0.0110	0.0049
%RSD		5.9160	29.0745	3.4536	2.0359	0.4268	1.44	7.6752	3.4915

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:22:49	0.6130	0.6888	0.6366
2	06:23:47	0.6141	0.6703	0.6428
3	06:24:44	0.5961	0.6636	0.6117
x		0.6077	0.6742	0.6304
σ		0.0101	0.0131	0.0165
%RSD		1.6582	1.9377	2.6156

CCV12 12/13/2009 06:36:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:36:06	105.90%	27.2116	25.7959	86.28%	26.8153	27.0082	26.9193	26.4857
2	06:37:04	92.15%	27.2084	25.3162	81.08%	25.9704	26.3838	27.7667	26.0631
3	06:38:01	88.44%	27.7125	25.4770	78.85%	26.9931	26.9429	26.6871	26.0071
x		95.50%	27.3775	25.5297	82.07%	26.5929	26.7783	27.1244	26.1853
σ		9.20%	0.2901	0.2442	3.81%	0.5464	0.3432	0.5683	0.2617
%RSD		9.64	1.0598	0.9565	4.65	2.0549	1.2815	2.0951	0.9993

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:36:06	27.2945	27.6165	25.0367	30.2340	27.4456	26.9171	26.2038	26.2546
2	06:37:04	26.3461	25.9277	28.8573	29.2746	26.4243	26.3234	25.8437	24.1472
3	06:38:01	26.6651	26.2924	25.9221	29.3430	27.0120	27.2097	26.0762	25.1105
x		26.7685	26.6122	26.6054	29.6172	26.9606	26.8167	26.0412	25.1708
σ		0.4826	0.8886	1.9998	0.5353	0.5126	0.4516	0.1826	1.0550
%RSD		1.8029	3.3392	7.5166	1.8074	1.9013	1.6840	0.7011	4.1913

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:36:06	26.0761	79.57%	26.2242	28.3431	26.2313	26.1389	26.5502	26.9110
2	06:37:04	25.4364	76.74%	26.0537	28.1593	27.3087	26.5390	26.3657	26.8856
3	06:38:01	26.5225	73.51%	26.8628	25.2571	27.1091	27.4657	27.3531	27.6666
x		26.0117	76.61%	26.3802	27.2532	26.8831	26.7145	26.7564	27.1544
σ		0.5459	3.03%	0.4265	1.7311	0.5732	0.6806	0.5250	0.4438
%RSD		2.0988	3.96	1.6169	6.3518	2.1321	2.5477	1.9621	1.6342

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:36:06	27.0045	78.62%	26.8717	26.4705	26.4511	26.4362	26.6561	76.21%
2	06:37:04	26.5521	76.48%	26.3054	25.8433	25.7986	25.4417	25.9810	76.19%
3	06:38:01	26.8218	76.18%	26.2785	26.3830	26.0995	25.9774	26.0681	74.59%
x		26.7928	77.09%	26.4852	26.2323	26.1164	25.9518	26.2351	75.66%
σ		0.2276	1.33%	0.3350	0.3397	0.3266	0.4978	0.3672	0.93%
%RSD		0.8493	1.73	1.2648	1.2949	1.2506	1.9181	1.3997	1.23

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:36:06	26.8482	26.6144	27.1568	26.8450	26.7928	74.32%	27.0900	26.8249
2	06:37:04	26.0095	25.8984	26.7190	26.1106	26.1607	75.99%	26.4391	26.6652
3	06:38:01	26.4503	26.2979	26.6812	26.4855	26.5288	75.80%	26.8166	26.7670
x		26.4360	26.2703	26.8523	26.4804	26.4941	75.37%	26.7819	26.7524
σ		0.4196	0.3588	0.2643	0.3672	0.3175	0.91%	0.3268	0.0809
%RSD		1.5870	1.3658	0.9844	1.3867	1.1983	1.21	1.2203	0.3023

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:36:06	26.7570	26.8822	26.7051
2	06:37:04	26.1774	26.2275	26.2263
3	06:38:01	26.6274	26.3422	26.5027
x		26.5206	26.4840	26.4780
σ		0.3042	0.3496	0.2404
%RSD		1.1469	1.3200	0.9078

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:44:50	126.72%	0.0003	-0.0027	97.46%	0.0598	0.0538	0.1318	0.0112
2	06:45:48	113.51%	-0.0005	0.0132	91.31%	0.0328	0.0384	0.0938	0.0173
3	06:46:45	104.51%	0.0003	0.0009	88.47%	0.0438	0.0630	0.1293	0.0144
x		114.91%	0.0000	0.0038	92.41%	0.0455	0.0517	0.1183	0.0143
σ		11.17%	0.0005	0.0083	4.60%	0.0136	0.0124	0.0213	0.0031
%RSD		9.72	1083.8881	219.2541	4.97	29.8739	24.0315	17.9670	21.5406

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:44:50	-0.0026	0.0066	0.8792	2.8509	0.1429	0.0151	-0.0044	0.0390
2	06:45:48	0.0002	0.0046	0.1391	2.2583	0.1209	-0.0086	-0.0156	0.0819
3	06:46:45	-0.0018	0.0049	-0.0744	2.1159	0.1092	0.0119	-0.0023	0.1474
x		-0.0014	0.0054	0.3146	2.4084	0.1244	0.0061	-0.0075	0.0894
σ		0.0014	0.0011	0.5004	0.3898	0.0171	0.0129	0.0072	0.0546
%RSD		100.4454	20.6273	159.0683	16.1853	13.7472	210.5787	96.2233	61.0144

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:44:50	-0.0321	87.85%	0.0134	0.1533	0.2859	0.0802	0.1952	0.1508
2	06:45:48	-0.0173	84.75%	-0.1512	0.3768	0.3942	-0.2767	0.2159	0.2160
3	06:46:45	0.0030	81.53%	0.0104	0.1168	0.4428	0.1508	0.1848	0.1402
x		-0.0155	84.71%	-0.0425	0.2156	0.3743	-0.0152	0.1986	0.1690
σ		0.0176	3.16%	0.0942	0.1407	0.0803	0.2292	0.0159	0.0410
%RSD		113.6670	3.73	221.7811	65.2770	21.4591	1505.4406	7.9813	24.2692

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:44:50	0.1427	85.70%	0.0015	0.0024	0.0000	0.0015	0.0016	83.23%
2	06:45:48	0.1892	84.10%	0.0040	0.0024	0.0000	0.0030	-0.0019	82.54%
3	06:46:45	0.1701	80.82%	0.0023	0.0013	0.0029	0.0078	0.0005	80.17%
x		0.1673	83.54%	0.0026	0.0020	0.0010	0.0041	0.0000	81.98%
σ		0.0233	2.49%	0.0013	0.0006	0.0017	0.0033	0.0018	1.60%
%RSD		13.9473	2.98	49.4039	31.7016	173.2051	79.1958	4565.3533	1.95

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:44:50	0.0002	-0.0004	0.0058	-0.0015	-0.0001	78.56%	0.0065	0.0022
2	06:45:48	0.0002	-0.0004	0.0058	0.0057	-0.0012	79.78%	0.0063	0.0081
3	06:46:45	0.0031	0.0021	-0.0071	0.0034	-0.0016	80.13%	0.0041	0.0074
x		0.0011	0.0004	0.0015	0.0025	-0.0010	79.49%	0.0056	0.0059
σ		0.0017	0.0014	0.0074	0.0037	0.0008	0.82%	0.0014	0.0032
%RSD		148.7907	355.2486	492.1363	146.2031	78.9917	1.04	24.1604	55.0435

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:44:50	-0.0010	-0.0018	-0.0022
2	06:45:48	-0.0017	-0.0019	-0.0009
3	06:46:45	-0.0023	-0.0027	-0.0016
x		-0.0017	-0.0021	-0.0016
σ		0.0006	0.0005	0.0006
%RSD		38.7903	22.4364	41.3771

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:47	115.19%	0.0001	676.4751	86.62%	0.1025	0.1322	0.1517	6.6845
2	06:50:45	97.44%	-0.0015	683.5517	81.36%	0.0557	0.1277	0.2327	6.4811
3	06:51:42	85.60%	0.0071	702.0888	77.60%	0.0478	0.1555	0.3550	6.5425
x		99.41%	0.0019	687.3719	81.86%	0.0687	0.1385	0.2465	6.5693
σ		14.89%	0.0045	13.2272	4.53%	0.0296	0.0149	0.1023	0.1043
%RSD		14.98	241.5623	1.9243	5.54	43.0559	10.7845	41.5159	1.5877

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:47	0.3108	1.8753	33.6179	2.9690	1.3957	1.7560	15.3735	13.4580
2	06:50:45	0.2900	1.8636	28.4551	2.3787	1.3612	1.4805	14.1794	13.2830
3	06:51:42	0.2586	1.7586	28.6241	2.2736	1.4751	1.6099	14.6924	14.0869
x		0.2864	1.8325	30.2324	2.5404	1.4107	1.6154	14.7484	13.6093
σ		0.0263	0.0642	2.9332	0.3748	0.0584	0.1378	0.5990	0.4228
%RSD		9.1731	3.5059	9.7021	14.7553	4.1384	8.5328	4.0617	3.1067

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:47	15.1921	80.36%	0.3364	1.1953	1.4635	1.8005	0.3655	0.3299
2	06:50:45	14.1583	79.46%	0.2446	0.6985	0.9451	1.0746	0.3678	0.3756
3	06:51:42	13.9621	76.30%	0.1606	0.8465	0.7302	1.0136	0.3816	0.4325
x		14.4375	78.70%	0.2472	0.9134	1.0463	1.2962	0.3716	0.3794
σ		0.6608	2.13%	0.0879	0.2551	0.3770	0.4378	0.0087	0.0514
%RSD		4.5772	2.71	35.5622	27.9232	36.0333	33.7731	2.3421	13.5430

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:47	0.3474	79.98%	0.0023	0.0020	0.1622	0.2407	0.1757	80.01%
2	06:50:45	0.3561	77.20%	0.0024	0.0041	0.1692	0.1825	0.1731	78.52%
3	06:51:42	0.3062	76.27%	0.0025	0.0001	0.1552	0.1963	0.1791	78.12%
x		0.3366	77.82%	0.0024	0.0021	0.1622	0.2065	0.1759	78.88%
σ		0.0266	1.93%	0.0001	0.0020	0.0070	0.0304	0.0030	1.00%
%RSD		7.9159	2.48	3.3719	98.7337	4.3005	14.7208	1.7103	1.27

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:47	0.0107	0.0058	2.2413	2.1148	2.0741	79.55%	0.0753	0.0896
2	06:50:45	0.0109	0.0109	2.0435	2.0363	1.9701	81.13%	0.0743	0.0882
3	06:51:42	0.0031	0.0047	2.1902	1.9985	2.0061	80.85%	0.0783	0.0841
x		0.0083	0.0071	2.1583	2.0499	2.0168	80.51%	0.0760	0.0873
σ		0.0044	0.0033	0.1027	0.0593	0.0528	0.84%	0.0021	0.0029
%RSD		53.6804	46.6748	4.7591	2.8953	2.6173	1.05	2.7874	3.2947

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:49:47	0.0050	0.0038	0.0036
2	06:50:45	0.0001	0.0052	0.0039
3	06:51:42	0.0007	0.0021	0.0005
x		0.0019	0.0037	0.0027
σ		0.0027	0.0016	0.0019
%RSD		139.9912	42.7886	70.0723

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:47	98.54%	0.0031	714.0533	85.42%	0.0714	0.1192	0.1971	4.4281
2	06:55:45	87.59%	0.0002	681.4028	77.52%	0.0153	0.0914	0.4040	4.4814
3	06:56:42	78.43%	0.0013	710.7255	74.60%	0.0447	0.1169	0.3762	4.5260
x		88.18%	0.0015	702.0605	79.18%	0.0438	0.1092	0.3258	4.4785
σ		10.07%	0.0015	17.9673	5.60%	0.0281	0.0155	0.1123	0.0490
%RSD		11.42	97.6700	2.5592	7.07	64.0838	14.1605	34.4596	1.0943

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:47	0.2403	1.4467	28.9843	1.8326	1.1301	1.2194	10.4997	10.3473
2	06:55:45	0.2036	1.4594	24.5819	1.8656	1.0091	1.2345	10.7441	9.7733
3	06:56:42	0.2224	1.3424	24.9843	1.6409	1.0003	1.2048	10.6949	9.7622
x		0.2221	1.4162	26.1835	1.7797	1.0465	1.2196	10.6462	9.9609
σ		0.0183	0.0642	2.4339	0.1213	0.0725	0.0148	0.1293	0.3347
%RSD		8.2552	4.5324	9.2956	6.8181	6.9282	1.2175	1.2142	3.3599

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:47	10.6106	80.01%	0.1636	1.4311	0.8158	1.4798	0.3289	0.3858
2	06:55:45	10.4975	76.13%	0.2993	1.2651	0.8272	1.5787	0.3430	0.3313
3	06:56:42	10.0314	73.21%	0.1403	0.8810	1.3056	0.8142	0.3704	0.3374
x		10.3798	76.45%	0.2011	1.1924	0.9829	1.2909	0.3474	0.3515
σ		0.3070	3.41%	0.0859	0.2822	0.2795	0.4158	0.0211	0.0299
%RSD		2.9575	4.46	42.7019	23.6654	28.4418	32.2094	6.0780	8.5049

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:47	0.3254	78.89%	0.0043	-0.0007	0.1401	0.1264	0.1234	79.23%
2	06:55:45	0.3245	76.52%	0.0018	0.0021	0.1061	0.1409	0.1448	78.44%
3	06:56:42	0.3677	75.50%	0.0025	-0.0020	0.1072	0.1375	0.1322	77.84%
x		0.3392	76.97%	0.0029	-0.0002	0.1178	0.1349	0.1335	78.50%
σ		0.0247	1.74%	0.0013	0.0021	0.0193	0.0076	0.0107	0.69%
%RSD		7.2713	2.26	45.3042	1193.2109	16.4160	5.6093	8.0505	0.88

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:54:47	0.0089	0.0083	1.8707	2.0647	2.0034	79.19%	0.0923	0.0846
2	06:55:45	0.0177	0.0147	2.0652	2.0580	1.9987	81.33%	0.0919	0.0891
3	06:56:42	0.0179	0.0148	2.1412	1.9538	1.9884	79.94%	0.0749	0.0820
x		0.0148	0.0126	2.0257	2.0255	1.9968	80.15%	0.0864	0.0852
σ		0.0051	0.0037	0.1395	0.0622	0.0077	1.09%	0.0099	0.0036
%RSD		34.6475	29.2691	6.8875	3.0702	0.3852	1.36	11.4800	4.2063

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:54:47	0.0051	-0.0002	0.0031
2	06:55:45	0.0036	0.0004	0.0026
3	06:56:42	0.0044	0.0029	0.0021
x		0.0044	0.0010	0.0026
σ		0.0007	0.0017	0.0005
%RSD		16.5864	159.9793	20.4596

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:32	104.76%	-0.0009	649.8274	85.90%	0.0458	0.1088	0.2300	0.7859
2	07:00:29	86.03%	-0.0013	684.7023	79.34%	0.0677	0.1115	0.2345	0.7977
3	07:01:27	83.75%	-0.0020	678.1313	76.46%	0.0221	0.0920	0.3240	0.7927
x		91.52%	-0.0014	670.8870	80.57%	0.0452	0.1041	0.2628	0.7921
σ		11.52%	0.0006	18.5317	4.84%	0.0228	0.0106	0.0531	0.0060
%RSD		12.59	39.3725	2.7623	6.01	50.4213	10.1358	20.1884	0.7513

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:32	0.1082	0.6353	28.4716	0.6769	0.1869	0.4860	0.9975	0.8124
2	07:00:29	0.1048	0.7015	27.1893	0.5133	0.1948	0.4536	1.1738	0.9039
3	07:01:27	0.0950	0.6537	24.3579	0.5880	0.1865	0.4471	1.1333	0.9283
x		0.1027	0.6635	26.6729	0.5927	0.1894	0.4622	1.1015	0.8815
σ		0.0069	0.0342	2.1049	0.0819	0.0047	0.0208	0.0923	0.0611
%RSD		6.6887	5.1480	7.8916	13.8176	2.4644	4.5011	8.3831	6.9327

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:32	0.8210	83.14%	0.0336	1.0450	0.1248	0.7934	0.3234	0.3221
2	07:00:29	0.8381	79.03%	0.2485	0.6436	0.6506	1.1179	0.3625	0.3569
3	07:01:27	0.8605	77.27%	0.0400	0.9549	0.8418	0.8785	0.3274	0.3746
x		0.8399	79.81%	0.1073	0.8812	0.5391	0.9299	0.3377	0.3512
σ		0.0198	3.01%	0.1223	0.2106	0.3713	0.1683	0.0215	0.0267
%RSD		2.3602	3.77	113.8875	23.9053	68.8688	18.0966	6.3661	7.6067

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:32	0.3189	81.72%	0.0016	0.0006	0.0173	0.0210	0.0136	81.58%
2	07:00:29	0.3535	77.59%	0.0004	0.0007	0.0241	0.0142	0.0228	78.74%
3	07:01:27	0.3210	76.16%	0.0005	-0.0006	0.0305	0.0129	0.0131	77.80%
x		0.3311	78.49%	0.0008	0.0002	0.0240	0.0161	0.0165	79.38%
σ		0.0194	2.89%	0.0007	0.0007	0.0066	0.0044	0.0055	1.97%
%RSD		5.8575	3.68	79.1998	318.7297	27.5167	27.1537	33.2022	2.48

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:32	0.0039	0.0044	1.8577	1.9334	1.9454	81.76%	0.0709	0.0701
2	07:00:29	0.0041	0.0121	2.2012	2.0215	2.0032	81.26%	0.0817	0.0779
3	07:01:27	0.0100	0.0059	2.0783	2.0410	2.0584	81.68%	0.0683	0.0785
x		0.0060	0.0075	2.0457	1.9986	2.0023	81.57%	0.0737	0.0755
σ		0.0035	0.0041	0.1740	0.0573	0.0565	0.27%	0.0071	0.0047
%RSD		57.7913	54.3390	8.5072	2.8669	2.8217	0.33	9.6081	6.2074

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	06:59:32	0.0000	-0.0012	-0.0000
2	07:00:29	0.0019	0.0004	0.0002
3	07:01:27	0.0006	-0.0004	0.0011
x		0.0008	-0.0004	0.0004
σ		0.0009	0.0008	0.0006
%RSD		110.1053	223.7827	144.7256

K0911120-MB 12/13/2009 07:04:18 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:18	117.88%	0.0011	0.3120	96.80%	0.0295	0.0706	0.1428	0.0013
2	07:05:15	110.62%	-0.0016	0.4652	91.61%	0.0410	0.0571	0.1957	0.0051
3	07:06:13	100.51%	0.0004	0.2532	88.19%	0.0143	0.0541	0.2378	0.0013
x		109.67%	-0.0000	0.3435	92.20%	0.0283	0.0606	0.1921	0.0026
σ		8.72%	0.0014	0.1094	4.33%	0.0134	0.0088	0.0476	0.0022
%RSD		7.95	3621.2765	31.8613	4.70	47.2789	14.4812	24.7899	85.9549

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:18	-0.0056	0.0041	0.3299	0.3553	0.0099	0.0082	-0.0217	-0.0176
2	07:05:15	-0.0041	0.0045	0.7440	0.1929	-0.0043	0.0056	0.0622	0.1161
3	07:06:13	-0.0019	0.0097	0.3688	0.2468	-0.0073	0.0275	-0.0032	0.2343
x		-0.0039	0.0061	0.4809	0.2650	-0.0005	0.0138	0.0124	0.1109
σ		0.0019	0.0031	0.2287	0.0827	0.0092	0.0120	0.0441	0.1260
%RSD		48.5956	51.3167	47.5494	31.2162	1679.1898	87.0098	354.6167	113.6246

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:18	-0.0132	90.76%	0.0148	0.0436	0.1599	0.1230	0.0370	0.0403
2	07:05:15	0.0194	86.85%	0.1455	-0.0018	0.1466	0.5380	0.0450	0.0552
3	07:06:13	-0.0090	85.50%	-0.0591	-0.0002	0.0444	-0.1552	0.0376	0.0495
x		-0.0009	87.71%	0.0337	0.0139	0.1170	0.1686	0.0399	0.0484
σ		0.0177	2.73%	0.1036	0.0257	0.0632	0.3489	0.0044	0.0075
%RSD		1912.8503	3.12	307.0378	185.6526	54.0478	206.9135	11.1331	15.5554

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:18	0.0341	91.02%	0.0002	-0.0015	0.0000	0.0013	0.0003	87.09%
2	07:05:15	0.0411	86.29%	-0.0015	0.0023	0.0028	0.0029	-0.0008	85.51%
3	07:06:13	0.0343	85.29%	0.0051	-0.0008	0.0000	-0.0014	0.0015	85.61%
x		0.0365	87.53%	0.0012	-0.0000	0.0009	0.0009	0.0003	86.07%
σ		0.0039	3.06%	0.0035	0.0020	0.0016	0.0022	0.0011	0.88%
%RSD		10.8241	3.49	276.5290	20008.9110	173.2051	233.6442	352.6556	1.03

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:18	0.0001	0.0007	-0.0030	-0.0039	-0.0014	84.15%	-0.0053	-0.0044
2	07:05:15	0.0001	-0.0016	-0.0029	0.0030	-0.0013	83.14%	-0.0027	-0.0024
3	07:06:13	-0.0008	0.0018	-0.0030	0.0030	-0.0013	84.66%	-0.0007	-0.0016
x		-0.0002	0.0003	-0.0030	0.0007	-0.0013	83.98%	-0.0029	-0.0028
σ		0.0005	0.0018	0.0000	0.0040	0.0000	0.77%	0.0023	0.0014
%RSD		291.0515	608.8214	1.1204	585.5050	1.4698	0.92	80.9384	50.6261

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	07:04:18	-0.0030	-0.0012	-0.0017
2	07:05:15	-0.0030	-0.0004	-0.0023
3	07:06:13	-0.0018	-0.0028	-0.0022
x		-0.0026	-0.0015	-0.0021
σ		0.0006	0.0012	0.0003
%RSD		25.0321	80.1986	15.3170

CCV13 12/13/2009 07:09:01 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:09:01	115.01%	25.9745	23.9861	92.39%	25.8080	26.1614	26.8778	25.9230
2	07:09:58	105.33%	25.3829	24.0402	89.87%	25.3134	24.9180	25.2129	24.4803
3	07:10:56	100.16%	25.4756	23.3630	87.25%	24.8107	24.8683	25.7429	24.8998
x		106.83%	25.6110	23.7965	89.84%	25.3107	25.3159	25.9445	25.1010
σ		7.54%	0.3182	0.3763	2.57%	0.4987	0.7326	0.8506	0.7421
%RSD		7.05	1.2425	1.5815	2.86	1.9702	2.8939	3.2784	2.9565

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:09:01	26.0270	26.3653	26.9899	27.3308	26.0655	26.0425	25.2967	23.9807
2	07:09:58	25.4840	26.2803	26.4081	25.5742	26.1383	25.6766	24.8923	23.5480
3	07:10:56	25.5888	25.0987	24.4438	26.2364	25.2506	24.5772	24.6987	23.5655
x		25.6999	25.9147	25.9473	26.3805	25.8181	25.4321	24.9626	23.6981
σ		0.2880	0.7080	1.3341	0.8871	0.4929	0.7627	0.3051	0.2450
%RSD		1.1207	2.7321	5.1417	3.3629	1.9089	2.9988	1.2224	1.0337

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:09:01	25.3651	87.81%	25.8367	26.3668	24.8079	25.8843	25.7121	26.3850
2	07:09:58	24.9152	84.05%	25.8695	24.5292	27.2882	26.0257	25.2006	25.3341
3	07:10:56	24.4926	83.60%	26.1652	26.9975	24.6875	26.0575	25.6791	26.1917
x		24.9243	85.16%	25.9571	25.9645	25.5946	25.9892	25.5306	25.9703
σ		0.4363	2.31%	0.1809	1.2824	1.4680	0.0922	0.2862	0.5594
%RSD		1.7507	2.72	0.6970	4.9390	5.7356	0.3548	1.1212	2.1538

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:09:01	25.5070	87.32%	26.2357	26.0561	25.3815	25.2658	25.3665	85.05%
2	07:09:58	25.3352	86.42%	25.7278	25.5558	24.8224	24.5328	24.5809	84.51%
3	07:10:56	24.9978	83.96%	25.6247	25.3539	24.6860	24.6381	24.7703	84.07%
x		25.2800	85.90%	25.8628	25.6553	24.9633	24.8122	24.9059	84.54%
σ		0.2591	1.74%	0.3271	0.3615	0.3685	0.3963	0.4100	0.49%
%RSD		1.0248	2.02	1.2648	1.4091	1.4763	1.5973	1.6463	0.58

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:09:01	25.5277	25.0524	25.9254	25.8040	25.8371	82.53%	26.0987	26.0595
2	07:09:58	24.6666	24.7260	25.1656	25.1678	24.9840	83.96%	25.5813	25.6957
3	07:10:56	24.8661	24.7340	25.3972	25.0006	25.2929	83.87%	25.7238	25.6546
x		25.0201	24.8375	25.4961	25.3241	25.3714	83.45%	25.8013	25.8032
σ		0.4508	0.1862	0.3894	0.4239	0.4319	0.80%	0.2673	0.2229
%RSD		1.8016	0.7496	1.5272	1.6739	1.7024	0.96	1.0359	0.8637

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	07:09:01	25.6634	25.7589	25.6216
2	07:09:58	25.2852	25.0045	25.1642
3	07:10:56	25.2277	25.5335	25.4049
x		25.3921	25.4323	25.3969
σ		0.2367	0.3872	0.2288
%RSD		0.9321	1.5225	0.9009

CCB13 12/13/2009 07:18:08 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	27Al	45Sc	51V	52Cr	53Cr	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:08	130.11%	0.0002	-0.0085	101.16%	0.0105	0.0626	0.3051	0.0026
2	07:19:05	114.54%	0.0001	-0.0062	93.82%	0.0449	0.0532	0.3192	0.0101
3	07:20:02	106.46%	-0.0004	0.0054	90.34%	0.0517	0.0598	0.2804	0.0088
x		117.04%	-0.0000	-0.0031	95.10%	0.0357	0.0585	0.3016	0.0072
σ		12.02%	0.0003	0.0075	5.52%	0.0221	0.0049	0.0197	0.0040
%RSD		10.27	1132.7340	242.0908	5.81	61.8365	8.3008	6.5162	55.8896

Run	Time	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:08	-0.0033	0.0039	0.3537	0.2975	0.0104	0.0204	-0.0418	0.1187
2	07:19:05	-0.0026	0.0043	0.2190	0.0799	0.0014	-0.0013	-0.0260	0.0746
3	07:20:02	-0.0004	-0.0004	0.1751	0.0893	-0.0172	0.0225	0.0014	0.0604
x		-0.0021	0.0026	0.2493	0.1556	-0.0018	0.0139	-0.0221	0.0846
σ		0.0015	0.0026	0.0931	0.1230	0.0141	0.0132	0.0218	0.0304
%RSD		71.5219	101.7362	37.3521	79.0606	792.1360	95.0091	98.6832	35.9243

Run	Time	68Zn	71Ga	75As	77Se	78Se	82Se	95Mo	97Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:08	-0.0350	93.94%	-0.0469	0.2351	0.0093	-0.1261	0.1460	0.1737
2	07:19:05	0.0085	89.29%	0.1403	0.1482	0.1875	0.5671	0.1606	0.1739
3	07:20:02	-0.0227	86.61%	0.2268	0.2086	0.0559	0.8838	0.1358	0.2013
x		-0.0164	89.95%	0.1067	0.1973	0.0842	0.4416	0.1475	0.1830
σ		0.0224	3.71%	0.1399	0.0445	0.0924	0.5165	0.0125	0.0159
%RSD		137.0646	4.12	131.1112	22.5525	109.6761	116.9743	8.4472	8.6814

Run	Time	98Mo	103Rh	107Ag	109Ag	111Cd	112Cd	114Cd	115In
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:08	0.1391	89.70%	0.0014	0.0039	0.0000	0.0013	-0.0008	87.02%
2	07:19:05	0.1475	88.68%	0.0037	0.0028	0.0000	-0.0014	0.0003	87.22%
3	07:20:02	0.1532	86.17%	0.0039	0.0023	0.0000	0.0014	0.0072	85.22%
x		0.1466	88.18%	0.0030	0.0030	0.0000	0.0004	0.0022	86.49%
σ		0.0071	1.82%	0.0014	0.0009	0.0000	0.0016	0.0043	1.10%
%RSD		4.8483	2.06	47.1280	28.4803	0.0000	364.5281	195.4025	1.28

Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:18:08	0.0001	-0.0005	-0.0030	0.0029	0.0001	83.57%	0.0020	0.0032
2	07:19:05	0.0036	0.0018	-0.0030	0.0006	-0.0021	84.61%	0.0056	0.0033
3	07:20:02	0.0019	-0.0016	-0.0029	0.0007	-0.0020	83.27%	0.0047	0.0030
x		0.0019	-0.0001	-0.0030	0.0014	-0.0013	83.82%	0.0041	0.0031
σ		0.0018	0.0017	0.0000	0.0013	0.0012	0.70%	0.0018	0.0001
%RSD		92.9864	1603.7950	1.4769	92.5222	90.5067	0.84	44.7825	4.4952

Run	Time	206Pb	207Pb	208Pb
		ppb	ppb	ppb
1	07:18:08	-0.0018	-0.0028	-0.0023
2	07:19:05	-0.0001	-0.0028	-0.0014
3	07:20:02	0.0040	-0.0035	-0.0003
x		0.0007	-0.0030	-0.0013
σ		0.0030	0.0004	0.0010
%RSD		429.7916	14.4586	77.4692

Service Request # _K0911120_____Be_____
Calibration __121309BMS03_____
QC in calibration__121309BMS03_____
QC Service Request # __K0911120_____
STARLIMS run # _____

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. Cd Correction Applied		X	
15. ICSA and ICSAB in control	X		
16. Serial dilution run	X		
17. Post spike in control	X		

Comments:

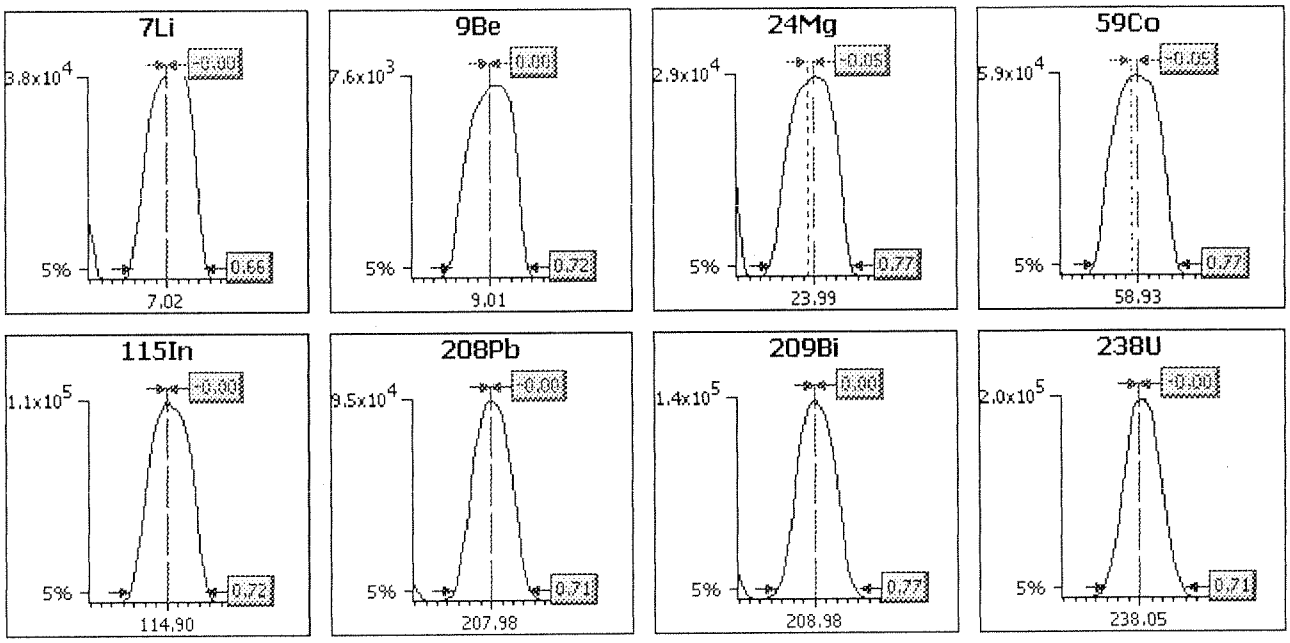
Primary Review by JDB Date 12/14/09
Secondary Review by 3C Date 12/15/09
R:\icp\misc\data review forms\icpms review form

Performance Report

Sample details
Acquired at : 12/14/2009 09:27:52 AM
Report name : Kelso Performance Report 2 [01/23/2008 04:49:11 PM]

Mass Calibration verification

Acquisition parameters
Sweeps : 100
Dwell : 1.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.66	-0.00
9Be	0.90	0.60	0.10	0.72	0.00
24Mg	0.90	0.60	0.10	0.77	-0.05
59Co	0.90	0.60	0.10	0.77	-0.05
115In	0.90	0.60	0.10	0.72	-0.00
208Pb	0.90	0.60	0.10	0.71	-0.00
209Bi	0.90	0.60	0.10	0.77	0.00
238U	0.90	0.60	0.10	0.71	-0.00

Sample details
Acquired at : 12/14/2009 09:27:52 AM
Report name : Kelso Performance Report 2 [01/23/2008 04:49:11 PM]

Tune conditions

Major	
Extraction	-165
Lens 1	3.8
Focus	22.2
D1	-34.5
Pole Bias	0.8
Hexapole Bias	1.5
Nebuliser	0.74
Sampling Depth	39

Minor	
Lens 2	-22.7
Lens 3	-195.3
Forward power	1247
Horizontal	105
Vertical	50
D2	-143
DA	-40.0
Cool	13.0
Auxiliary	0.96

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1500
PC Detector	3578

Add. Gases

Sensitivity and stability results

Acquisition parameters
Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	Countrate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	09:28:24 AM	0.500	38528.974	7403.764	29217.877	59068.529	110603.76	119519.79	1856.440	97362.594
2	09:29:37 AM	0.000	38853.601	7399.010	29400.715	59481.710	111175.92	120450.46	1864.941	97936.206
3	09:30:50 AM	0.000	38674.088	7480.827	29341.023	59494.040	111570.72	120380.03	1878.444	98101.474
4	09:32:03 AM	0.250	38570.148	7405.765	29392.689	59605.516	111934.90	121090.12	1876.694	98551.805
5	09:33:16 AM	0.250	38759.450	7464.313	29164.456	59302.545	111752.17	120500.87	1851.689	98272.051
x		0.200	38677.252	7430.736	29303.352	59390.468	111407.49	120388.25	1865.641	98044.826
σ		0.21	133.53	38.71	106.63	210.16	529.91	562.02	11.89	444.16
%RSD		104.583	0.345	0.521	0.364	0.354	0.476	0.467	0.638	0.453

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	Countrate	>1000	-	>1000
1	09:28:24 AM	142890.47	0.000	205509.67
2	09:29:37 AM	143214.00	0.250	205703.99
3	09:30:50 AM	143609.16	0.000	206130.23
4	09:32:03 AM	143471.51	0.250	206251.95
5	09:33:16 AM	143949.73	0.000	206620.94
x		143426.97	0.100	206043.36
σ		400.52	0.14	442.90
%RSD		0.279	136.931	0.215

Ratio results

Run	Time	156Ce O/140Ce
	Ratio limits	<0.0200
1	09:28:24 AM	0.016
2	09:29:37 AM	0.015
3	09:30:50 AM	0.016
4	09:32:03 AM	0.015
5	09:33:16 AM	0.015
x		0.0155
σ		0.00
%RSD		0.5585

Result : The performance report passed.

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	150
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	150
3	ICV1	Unknown	1.000	0	1	3	150
4	CCV1	Unknown	1.000	0	1	2	150
5	ICB1	Unknown	1.000	0	1	1	150
6	CCB1	Unknown	1.000	0	1	1	150
7	CRA	Unknown	1.000	0	1	4	150
8	ICSA	Unknown	1.000	0	1	5	150
9	ICSAB	Unknown	1.000	0	1	6	150
10	K0911120-MB	Unknown	1.000	1	1	1	150
11	LCSW K0911120	Unknown	1.000	1	1	2	150
12	K0911120-023	Unknown	1.000	1	1	3	150
13	K0911120-023 1/5L	Unknown	1.000	1	1	4	150
14	K0911120-023A +40ppb	Unknown	1.000	1	1	5	150
15	K0911120-024	Unknown	1.000	1	1	6	150
16	K0911120-024D	Unknown	1.000	1	1	7	150
17	CCV2	Unknown	1.000	0	1	2	150
18	CCB2	Unknown	1.000	0	1	1	150
19	K0911120-024S	Unknown	1.000	1	1	8	150
20	K0911335-MB	Unknown	1.000	1	1	9	150
21	LCSW K0911335	Unknown	1.000	1	1	10	150
22	K0911335-001	Unknown	1.000	1	1	11	150
23	K0911335-001D	Unknown	1.000	1	1	12	150
24	K0911335-001 1/5L	Unknown	1.000	1	2	1	150
25	K0911335-001A	Unknown	1.000	1	2	2	150
26	K0911335-001S	Unknown	1.000	1	2	3	150
27	K0910945-MB	Unknown	1.000	1	2	4	150
28	LCSW K0910945	Unknown	1.000	1	2	5	150
29	CCV3	Unknown	1.000	0	1	2	150
30	CCB3	Unknown	1.000	0	1	1	150
31	K0910945-001	Unknown	1.000	1	2	6	150
32	K0910945-001D	Unknown	1.000	1	2	7	150
33	K0910945-001S	Unknown	1.000	1	2	8	150
34	K0910769-004	Unknown	1.000	1	2	9	150
35	K0910769-007	Unknown	1.000	1	2	10	150
36	K0910769-007 1/5L	Unknown	1.000	1	2	11	150
37	K0910769-007A	Unknown	1.000	1	2	12	150
38	K0910769-008	Unknown	1.000	1	3	1	150
39	K0910815-003	Unknown	1.000	1	3	2	150
40	K0910815-007	Unknown	1.000	1	3	3	150
41	CCV4	Unknown	1.000	0	1	2	150
42	CCB4	Unknown	1.000	0	1	1	150
43	K0911830-MB	Unknown	1.000	1	3	4	150
44	LCSW K0911830	Unknown	1.000	1	3	5	150
45	K0911830-001	Unknown	1.000	1	3	6	150
46	K0911830-001D	Unknown	1.000	1	3	7	150
47	K0911830-001S	Unknown	1.000	1	3	8	150
48	K0911831-001	Unknown	1.000	1	3	9	150
49	CCV5	Unknown	1.000	0	1	2	150
50	CCB5	Unknown	1.000	0	1	1	150

Dilution Corrected Concentrations

Cal. Blk 12/14/2009 12:40:45 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:40:45	98.39%	0.0013	98.63%
2	12:40:58	99.92%	-0.0046	100.40%
3	12:41:11	101.69%	0.0033	100.97%
x		100.00%	0.0000	100.00%
σ		1.65%	0.0041	1.22%
%RSD		1.65	0.0000	1.22

Cal. Stn 12/14/2009 12:43:21 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:43:21	97.70%	25.6555	97.11%
2	12:43:34	98.96%	24.9985	98.59%
3	12:43:47	99.09%	24.3460	99.87%
x		98.59%	25.0000	98.52%
σ		0.77%	0.6548	1.38%
%RSD		0.78	2.6190	1.40

ICV1 12/14/2009 12:45:43 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:45:43	95.32%	2.6476	94.98%
2	12:45:56	97.95%	2.4952	97.59%
3	12:46:10	97.95%	2.4812	99.85%
x		97.08%	2.5413	97.47%
σ		1.52%	0.0923	2.44%
%RSD		1.56	3.6325	2.50

CCV1 12/14/2009 12:48:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:48:06	97.62%	24.7345	98.69%
2	12:48:19	99.80%	24.2356	98.31%
3	12:48:32	99.93%	24.7227	100.96%
x		99.11%	24.5643	99.32%
σ		1.30%	0.2847	1.43%
%RSD		1.31	1.1589	1.44

ICB1 12/14/2009 12:50:28 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:50:28	96.88%	0.0043	95.88%
2	12:50:41	98.03%	0.0020	97.07%
3	12:50:55	98.60%	0.0030	98.96%
x		97.84%	0.0031	97.30%
σ		0.88%	0.0011	1.55%
%RSD		0.90	36.0432	1.60

CCB1 12/14/2009 12:52:50 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:52:50	97.58%	0.0031	97.11%
2	12:53:04	96.22%	0.0005	96.98%
3	12:53:17	98.33%	0.0058	97.95%
x		97.37%	0.0031	97.35%
σ		1.07%	0.0026	0.53%
%RSD		1.10	84.7885	0.54

CRA 12/14/2009 12:55:13 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:55:13	101.72%	0.0232	99.99%
2	12:55:26	97.89%	0.0196	98.50%
3	12:55:39	98.91%	0.0138	98.37%
x		99.51%	0.0189	98.95%
σ		1.98%	0.0047	0.90%
%RSD		1.99	24.9432	0.91

ICSA 12/14/2009 12:57:37 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	12:57:37	92.82%	0.0005	90.48%
2	12:57:50	93.66%	-0.0025	91.62%
3	12:58:03	93.41%	-0.0014	91.99%
x		93.30%	-0.0011	91.36%
σ		0.43%	0.0015	0.78%
%RSD		0.47	132.8186	0.86

ICSAB 12/14/2009 01:00:01 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:00:01	91.74%	0.0146	88.55%
2	13:00:14	92.82%	0.0089	89.37%
3	13:00:28	92.32%	0.0137	89.46%
x		92.30%	0.0124	89.13%
σ		0.54%	0.0031	0.50%
%RSD		0.58	24.8943	0.57

K0911120-MB 12/14/2009 01:02:24 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:02:24	92.34%	0.0013	88.00%
2	13:02:37	93.72%	0.0011	89.49%
3	13:02:50	95.05%	0.0013	90.94%
x		93.70%	0.0013	89.48%
σ		1.35%	0.0001	1.47%
%RSD		1.44	8.7620	1.64

LCSW K0911120 12/14/2009 01:04:45 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:04:45	95.05%	20.3234	89.59%
2	13:04:58	94.47%	20.1509	89.99%
3	13:05:11	93.20%	19.8348	90.86%
x		94.24%	20.1031	90.15%
σ		0.95%	0.2478	0.65%
%RSD		1.00	1.2326	0.72

K0911120-023 12/14/2009 01:07:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:07:07	92.74%	0.0027	89.04%
2	13:07:20	93.27%	-0.0021	89.46%
3	13:07:33	93.36%	0.0051	90.76%
x		93.12%	0.0019	89.75%
σ		0.33%	0.0037	0.90%
%RSD		0.36	192.0936	1.00

K0911120-023 1/5L 12/14/2009 01:09:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:09:29	93.93%	-0.0003	89.52%
2	13:09:42	92.41%	0.0009	89.92%
3	13:09:55	91.47%	0.0006	90.74%
x		92.61%	0.0004	90.06%
σ		1.24%	0.0006	0.62%
%RSD		1.34	164.3225	0.69

K0911120-023A +40ppb 12/14/2009 01:11:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:11:52	94.54%	39.5555	91.85%
2	13:12:05	94.79%	39.6595	92.07%
3	13:12:18	93.22%	39.5480	92.44%
x		94.19%	39.5877	92.12%
σ		0.84%	0.0623	0.30%
%RSD		0.89	0.1574	0.33

K0911120-024 12/14/2009 01:14:15 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:14:15	94.84%	0.0074	89.89%
2	13:14:28	93.01%	0.0041	90.56%
3	13:14:41	93.17%	0.0088	90.34%
x		93.67%	0.0068	90.26%
σ		1.02%	0.0024	0.34%
%RSD		1.08	35.6661	0.38

K0911120-024D 12/14/2009 01:16:38 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:16:38	94.53%	-0.0018	89.41%
2	13:16:51	93.29%	-0.0021	91.36%
3	13:17:04	93.16%	0.0004	90.84%
x		93.66%	-0.0012	90.54%
σ		0.76%	0.0014	1.01%
%RSD		0.81	120.9215	1.12

CCV2 12/14/2009 01:19:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:19:00	91.58%	24.4464	91.25%
2	13:19:14	91.65%	24.2251	89.80%
3	13:19:27	92.65%	23.6841	92.30%
x		91.96%	24.1185	91.11%
σ		0.60%	0.3922	1.25%
%RSD		0.65	1.6260	1.37

CCB2 12/14/2009 01:21:22 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:21:22	89.41%	0.0020	88.11%
2	13:21:35	91.43%	0.0036	91.54%
3	13:21:48	92.08%	0.0031	92.21%
x		90.97%	0.0029	90.62%
σ		1.39%	0.0008	2.20%
%RSD		1.53	28.4419	2.42

K0911120-024S 12/14/2009 01:23:45 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:23:45	92.20%	19.8925	89.60%
2	13:23:58	92.84%	19.2363	91.81%
3	13:24:11	91.89%	19.3585	91.06%
x		92.31%	19.4958	90.82%
σ		0.49%	0.3490	1.12%
%RSD		0.53	1.7900	1.24

K0911335-MB 12/14/2009 01:26:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:26:08	89.18%	-0.0003	88.28%
2	13:26:21	90.77%	0.0007	90.34%
3	13:26:34	92.24%	-0.0009	91.11%
x		90.73%	-0.0002	89.91%
σ		1.53%	0.0008	1.46%
%RSD		1.69	463.4842	1.63

LCSW K0911335 12/14/2009 01:28:32 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:28:32	91.83%	20.8144	90.10%
2	13:28:46	93.93%	19.2995	93.60%
3	13:28:59	92.58%	18.9677	94.44%
x		92.78%	19.6939	92.71%
σ		1.06%	0.9845	2.30%
%RSD		1.15	4.9992	2.48

K0911335-001 12/14/2009 01:30:57 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:30:57	91.05%	0.0003	88.58%
2	13:31:10	93.12%	0.0033	91.12%
3	13:31:24	92.98%	-0.0024	91.98%
x		92.38%	0.0004	90.56%
σ		1.16%	0.0029	1.77%
%RSD		1.25	723.1419	1.95

K0911335-001D 12/14/2009 01:33:22 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:33:22	94.15%	-0.0000	91.79%
2	13:33:35	92.25%	-0.0002	92.09%
3	13:33:48	94.22%	-0.0000	92.71%
x		93.54%	-0.0001	92.20%
σ		1.12%	0.0001	0.47%
%RSD		1.19	139.9919	0.51

K0911335-001 1/5L 12/14/2009 01:35:45 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:35:45	89.75%	-0.0011	86.94%
2	13:35:58	90.68%	0.0003	90.08%
3	13:36:11	92.10%	-0.0038	91.18%
x		90.85%	-0.0015	89.40%
σ		1.18%	0.0021	2.20%
%RSD		1.30	138.4744	2.46

K0911335-001A 12/14/2009 01:38:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:38:07	90.67%	19.8887	89.05%
2	13:38:20	91.04%	19.5865	89.55%
3	13:38:35	91.14%	19.3792	89.45%
x		90.95%	19.6182	89.35%
σ		0.25%	0.2562	0.26%
%RSD		0.27	1.3059	0.29

K0911335-001S 12/14/2009 01:40:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:40:31	91.75%	19.7180	88.96%
2	13:40:44	90.24%	20.5621	88.44%
3	13:40:57	91.24%	19.6446	90.47%
x		91.08%	19.9749	89.29%
σ		0.77%	0.5099	1.05%
%RSD		0.84	2.5525	1.18

K0910945-MB 12/14/2009 01:42:54 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:42:54	87.85%	0.0022	86.03%
2	13:43:07	90.37%	-0.0007	87.16%
3	13:43:21	90.27%	0.0022	88.35%
x		89.50%	0.0012	87.18%
σ		1.42%	0.0017	1.16%
%RSD		1.59	139.6832	1.33

LCSW K0910945 12/14/2009 01:45:18 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:45:18	90.14%	20.1616	87.15%
2	13:45:31	90.64%	19.4972	90.00%
3	13:45:44	91.53%	18.9710	90.46%
x		90.77%	19.5433	89.20%
σ		0.71%	0.5966	1.79%
%RSD		0.78	3.0529	2.01

CCV3 12/14/2009 01:47:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:47:40	89.17%	25.2790	87.46%
2	13:47:54	90.34%	23.7174	90.73%
3	13:48:07	91.02%	23.4127	91.18%
x		90.18%	24.1363	89.79%
σ		0.93%	1.0012	2.03%
%RSD		1.04	4.1481	2.26

CCB3 12/14/2009 01:50:02 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:50:02	87.49%	0.0057	86.44%
2	13:50:15	90.66%	0.0003	89.08%
3	13:50:28	90.96%	0.0036	90.09%
x		89.70%	0.0032	88.54%
σ		1.92%	0.0027	1.89%
%RSD		2.14	83.9456	2.13

K0910945-001 12/14/2009 01:52:24 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:52:24	75.26%	0.0086	97.53%
2	13:52:37	76.77%	0.0074	101.96%
3	13:52:50	72.56%	0.0047	96.84%
x		74.86%	0.0069	98.78%
σ		2.13%	0.0020	2.78%
%RSD		2.85	29.1409	2.81

K0910945-001D 12/14/2009 01:54:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:54:48	74.52%	0.0065	101.42%
2	13:55:01	73.80%	0.0053	100.84%
3	13:55:14	71.77%	0.0053	99.49%
x		73.36%	0.0057	100.58%
σ		1.42%	0.0007	0.99%
%RSD		1.94	12.4312	0.98

K0910945-001S 12/14/2009 01:57:13 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:57:13	72.72%	18.1634	98.81%
2	13:57:26	70.00%	18.6353	98.68%
3	13:57:39	70.91%	18.4098	95.99%
x		71.21%	18.4028	97.82%
σ		1.38%	0.2360	1.59%
%RSD		1.94	1.2824	1.63

K0910769-004 12/14/2009 01:59:37 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	13:59:37	97.31%	0.4644	148.07%
2	13:59:50	99.83%	0.4328	148.90%
3	14:00:03	99.28%	0.4333	147.87%
x		98.81%	0.4435	148.28%
σ		1.33%	0.0181	0.55%
%RSD		1.34	4.0734	0.37

K0910769-007 12/14/2009 02:02:02 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:02:02	99.03%	0.1173	122.92%
2	14:02:15	98.10%	0.1195	122.24%
3	14:02:28	97.45%	0.1281	122.23%
x		98.20%	0.1216	122.46%
σ		0.79%	0.0057	0.40%
%RSD		0.81	4.6964	0.32

K0910769-007 1/5L 12/14/2009 02:04:27 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:04:27	94.44%	0.0275	102.63%
2	14:04:40	95.94%	0.0241	105.55%
3	14:04:53	96.32%	0.0195	107.67%
x		95.57%	0.0237	105.28%
σ		0.99%	0.0040	2.53%
%RSD		1.04	17.0787	2.40

K0910769-007A 12/14/2009 02:06:53 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:06:53	98.88%	22.7215	118.70%
2	14:07:06	101.02%	21.5436	122.28%
3	14:07:19	103.46%	20.9328	122.37%
x		101.12%	21.7326	121.12%
σ		2.29%	0.9092	2.09%
%RSD		2.26	4.1835	1.73

K0910769-008 12/14/2009 02:09:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:09:17	98.95%	0.2511	128.71%
2	14:09:31	104.00%	0.2426	131.92%
3	14:09:44	104.07%	0.2329	131.95%
x		102.34%	0.2422	130.86%
σ		2.94%	0.0091	1.86%
%RSD		2.87	3.7504	1.42

K0910815-003 12/14/2009 02:11:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:11:40	101.81%	0.0028	114.35%
2	14:11:53	104.73%	0.0003	117.88%
3	14:12:06	107.68%	0.0006	121.82%
x		104.74%	0.0013	118.02%
σ		2.93%	0.0014	3.74%
%RSD		2.80	110.7404	3.17

K0910815-007 12/14/2009 02:14:02 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:14:02	104.59%	0.1582	125.95%
2	14:14:15	107.07%	0.1531	127.92%
3	14:14:29	107.46%	0.1373	129.92%
x		106.37%	0.1495	127.93%
σ		1.56%	0.0109	1.98%
%RSD		1.46	7.2924	1.55

CCV4 12/14/2009 02:16:24 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:16:24	103.71%	24.7370	111.49%
2	14:16:37	102.53%	25.1401	110.68%
3	14:16:50	103.35%	24.8011	111.54%
x		103.20%	24.8927	111.24%
σ		0.61%	0.2166	0.48%
%RSD		0.59	0.8701	0.43

CCB4 12/14/2009 02:18:46 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:18:46	104.39%	-0.0016	109.28%
2	14:18:59	96.76%	0.0011	102.71%
3	14:19:12	99.98%	-0.0009	104.67%
x		100.38%	-0.0005	105.55%
σ		3.83%	0.0014	3.37%
%RSD		3.82	294.3957	3.19

K0911830-MB 12/14/2009 02:21:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:21:08	104.16%	-0.0045	108.50%
2	14:21:21	102.73%	-0.0050	106.85%
3	14:21:35	103.07%	-0.0044	108.27%
x		103.32%	-0.0046	107.87%
σ		0.74%	0.0004	0.89%
%RSD		0.72	7.6440	0.83

LCSW K0911830 12/14/2009 02:23:32 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:23:32	101.67%	20.9048	103.68%
2	14:23:45	101.53%	20.9879	104.97%
3	14:23:58	102.72%	20.7699	106.06%
x		101.97%	20.8875	104.90%
σ		0.65%	0.1100	1.19%
%RSD		0.64	0.5268	1.14

K0911830-001 12/14/2009 02:25:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:25:56	104.57%	0.0028	117.96%
2	14:26:09	102.51%	0.0024	117.16%
3	14:26:22	103.26%	0.0040	117.43%
x		103.45%	0.0031	117.52%
σ		1.04%	0.0008	0.41%
%RSD		1.01	25.8389	0.35

K0911830-001D 12/14/2009 02:28:20 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:28:20	100.16%	0.0040	116.69%
2	14:28:33	103.27%	0.0030	119.43%
3	14:28:46	102.61%	0.0043	121.33%
x		102.01%	0.0038	119.15%
σ		1.64%	0.0007	2.34%
%RSD		1.60	18.7976	1.96

K0911830-001S 12/14/2009 02:30:45 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:30:45	101.77%	20.2701	118.47%
2	14:30:58	103.47%	19.5373	120.24%
3	14:31:11	101.21%	19.6478	122.05%
x		102.15%	19.8184	120.26%
σ		1.18%	0.3951	1.79%
%RSD		1.16	1.9934	1.49

K0911831-001 12/14/2009 02:33:09 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:33:09	104.48%	-0.0001	147.60%
2	14:33:23	104.79%	-0.0002	149.77%
3	14:33:36	106.60%	-0.0003	147.38%
x		105.29%	-0.0002	148.25%
σ		1.14%	0.0001	1.32%
%RSD		1.09	41.2822	0.89

CCV5 12/14/2009 02:35:33 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:35:33	104.16%	26.3928	108.80%
2	14:35:46	105.24%	26.2802	110.25%
3	14:36:00	105.76%	25.4176	113.06%
x		105.05%	26.0302	110.70%
σ		0.82%	0.5335	2.17%
%RSD		0.78	2.0495	1.96

CCB5 12/14/2009 02:37:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc
		ppb	ppb	ppb
1	14:37:56	103.11%	0.0041	107.89%
2	14:38:09	103.96%	0.0014	107.23%
3	14:38:22	104.29%	0.0010	109.41%
x		103.79%	0.0021	108.17%
σ		0.61%	0.0017	1.12%
%RSD		0.59	77.5754	1.03

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Windward Environmental, LLC	**Service Request No.:**	K0911120
Project:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Sample Matrix:	Sediment		

CASE NARRATIVE ADDENDUM

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 III 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

Twenty four samples were received for analysis at Columbia Analytical Services on 11/14/2009. 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.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Aluminum and Iron for samples LPRT01E and LPRH11A were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Thallium in sample LPRT01E was outside the normal CAS control limits (32% RPD versus a control limit of 20%). The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

Report Addendum Summary:
Following completion of data validation and notification by Jennifer Parker at Windward Environmental, LLC, the following corrections are included as an addendum to the data package.

The Form 10 was corrected to reflect the correct Method Reporting Limit for Titanium.

The Form 7 was corrected to reflect the correct "found" concentration and percent recovery for selenium the Laboratory Control Sample.

The Form 14 was corrected to reflect the correct dilution factor for the selenium analysis.

The reported result for Selenium for sample LPRT06E was corrected on the Form I and the Cx concentration on the run log was corrected. The run log was also corrected for sample LPRT03F.

REVISED
2:54 pm, May 26, 2010

Approved by LAH **Date** 5/25/10

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/9/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT06C **Lab Code:** K0911120-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	9.0	5.4	2.0	11/24/09	12/01/09	5130		
Antimony	6020	0.045	0.008	5.0	11/24/09	12/07/09	0.715		
Arsenic	6020	0.46	0.05	5.0	11/24/09	12/07/09	3.27		
Barium	6010B	1.8	0.3	2.0	11/24/09	12/01/09	73.1		
Beryllium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.280		
Cadmium	6020	0.019	0.004	5.0	11/24/09	12/07/09	1.520		
Calcium	6010B	9.0	1.8	2.0	11/24/09	12/01/09	3780		
Chromium	6010B	1.8	0.4	2.0	11/24/09	12/01/09	54.4		
Cobalt	6020	0.019	0.001	5.0	11/24/09	12/07/09	4.970		
Copper	6010B	1.8	0.5	2.0	11/24/09	12/01/09	95.3		
Iron	6010B	3.6	0.3	2.0	11/24/09	12/01/09	14400		
Lead	6010B	18.0	2.7	2.0	11/24/09	12/01/09	204		
Magnesium	6010B	3.61	0.04	2.0	11/24/09	12/01/09	3270		
Manganese	6010B	1.80	0.04	2.0	11/24/09	12/01/09	191		
Nickel	6020	0.19	0.02	5.0	11/24/09	12/07/09	17.8		
Potassium	6010B	180	4.5	2.0	11/24/09	12/01/09	766		
Selenium	7742	0.09	0.03	2.0	11/24/09	12/16/09	0.29		
Silver	6020	0.018	0.007	5.0	11/24/09	12/07/09	0.987		
Sodium	6010B	18.0	3.6	2.0	11/24/09	12/01/09	1880		
Thallium	6020	0.019	0.003	5.0	11/24/09	12/07/09	0.108		*
Titanium	6010B	9.0	0.5	2.0	11/24/09	12/01/09	273		
Vanadium	6020	0.19	0.02	5.0	11/24/09	12/07/09	13.2		
Zinc	6010B	1.8	0.3	2.0	11/24/09	12/01/09	269		

% Solids: 59.0

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Windward Environmental, LLC	**Service Request:**	K0911120
Project No.:	09.58.02.41	**Date Collected:**	11/11/2009
Project Name:	Passaic RI/FS Sediment	**Date Received:**	11/14/2009
Matrix:	SEDIMENT	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: LPRT03F **Lab Code:** K0911120-009

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	6010B	10	6.1	2.0	11/24/09	12/01/09	9920		
Antimony	6020	0.051	0.009	5.0	11/24/09	12/07/09	0.725		
Arsenic	6020	0.49	0.05	5.0	11/24/09	12/07/09	7.26		
Barium	6010B	2.0	0.3	2.0	11/24/09	12/01/09	85.4		
Beryllium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.650		
Cadmium	6020	0.020	0.004	5.0	11/24/09	12/07/09	2.810		
Calcium	6010B	10	2.0	2.0	11/24/09	12/01/09	4310		
Chromium	6010B	2.0	0.4	2.0	11/24/09	12/01/09	88.0		
Cobalt	6020	0.020	0.001	5.0	11/24/09	12/07/09	8.670		
Copper	6010B	2.0	0.6	2.0	11/24/09	12/01/09	154		
Iron	6010B	4.0	0.3	2.0	11/24/09	12/01/09	23700		
Lead	6010B	20.2	3.0	2.0	11/24/09	12/01/09	162		
Magnesium	6010B	4.04	0.04	2.0	11/24/09	12/01/09	6120		
Manganese	6010B	2.02	0.04	2.0	11/24/09	12/01/09	273		
Nickel	6020	0.20	0.02	5.0	11/24/09	12/07/09	26.9		
Potassium	6010B	202	5.1	2.0	11/24/09	12/01/09	1650		
Selenium	7742	0.10	0.02	2.0	11/24/09	12/16/09	0.37		
Silver	6020	0.020	0.008	5.0	11/24/09	12/07/09	2.570		
Sodium	6010B	20.2	4.0	2.0	11/24/09	12/01/09	5050		
Thallium	6020	0.020	0.003	5.0	11/24/09	12/07/09	0.175		*
Titanium	6010B	10.1	0.5	2.0	11/24/09	12/01/09	406		
Vanadium	6020	0.20	0.02	5.0	11/24/09	12/07/09	26.7		
Zinc	6010B	2.0	0.3	2.0	11/24/09	12/01/09	409		

% Solids: 44.8

Comments:

Metals

LABORATORY CONTROL SAMPLE

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Aqueous LCS Source: **Solid LCS Source:** ERA D045540

Analyte	Aqueous: ug/L True	Found	%R	Solid: mg/kg True	Found	C Limits		%R
Aluminum				10500	8380	41	158	79.8
Antimony				105	88.4	50	150	84.2
Arsenic				88.3	84.6	78	122	95.8
Barium				432	433	81	119	100.2
Beryllium				58.2	61.4	83	117	105.5
Cadmium				91	95.0	81	119	104.4
Calcium				9630	10500	79	121	109.0
Chromium				144	154	80	119	106.9
Cobalt				190	205	82	118	107.9
Copper				237	269	83	116	113.5
Iron				18900	17100	50	149	90.5
Lead				104	102	79	121	98.1
Magnesium				4040	4150	73	127	102.7
Manganese				497	522	81	119	105.0
Nickel				200	214	81	118	107.0
Potassium				4340	4250	73	126	97.9
Selenium				192	201	80	120	104.7
Silver				76.4	82.3	66	134	107.7
Sodium				735	689	74	126	93.7
Thallium				247	257	79	120	104.0
Titanium				432	471	28	172	109.0
Vanadium				180	181	79	121	100.6
Zinc				292	295	73	121	101.0

Metals

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DETECTION LIMITS

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

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

GFAA ID #: AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	237.3		50	30.0	P
Barium	233.5		10.0	1.5	P
Calcium	211.2		50	10.0	P
Chromium	267.72		10.0	2.0	P
Copper	324.75		10.0	3.0	P
Iron	259.90		20.0	1.5	P
Lead	220.35		100	15.0	P
Magnesium	202.5		20	0.2	P
Manganese	257.61		10.00	0.20	P
Potassium	766.49		1000	25.0	P
Sodium	330.23		100	20.0	P
Titanium	334.94		50	2.5	P
Zinc	206.2		10.0	1.5	P

Comments:

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 Method: P
Start Date: 12/8/2009 End Date: 12/8/2009

Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U										
Blank	1.00	10:21														X											
STDB	1.00	10:24																									
STDA	1.00	10:27														X											
ICV1	1.00	10:30														X											
ZZZZZZ	1.00	10:33																									
ZZZZZZ	1.00	10:36																									
ZZZZZZ	1.00	10:39																									
ICB1	1.00	10:43														X											
CCV1	1.00	10:47																									
CCV1	1.00	10:52														X											
CCB1	1.00	10:58														X											
CRDL1	1.00	11:01														X											
ICS-A1	1.00	11:04														X											
ICS-AB1	1.00	11:07														X											
ZZZZZZ	1.00	11:10																									
CCV2	1.00	11:13																									
CCV2	1.00	11:16														X											
CCB2	1.00	11:19														X											
ZZZZZZ	1.00	11:22																									
ZZZZZZ	1.00	11:26																									
ZZZZZZ	1.00	11:28																									
ZZZZZZ	1.00	11:32																									
ZZZZZZ	1.00	11:35																									
ZZZZZZ	1.00	11:45																									
ZZZZZZ	1.00	11:48																									
ZZZZZZ	1.00	11:51																									
CCV3	1.00	11:54																									
CCV3	1.00	11:57														X											
CCB3	1.00	12:00														X											
K0911120-MB	1.00	12:35														X											
LCSW	1.00	12:38														X											
K0911120-023	1.00	12:41														X											
K0911120-023L	5.00	12:44														X											
K0911120-024	1.00	12:48														X											

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.31

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-ICP-AES-02 **Method:** P
Start Date: 12/8/2009 **End Date:** 12/8/2009

Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U										
K0911120-024D	1.00	12:51														X											
K0911120-024S	1.00	12:54														X											
ZZZZZZ	1.00	12:57																									
ZZZZZZ	1.00	13:00																									
ZZZZZZ	1.00	13:03																									
CCV4	1.00	13:06																									
CCV4	1.00	13:09														X											
CCB4	1.00	13:12														X											

Columbia Analytical Services

Metals
- 14 -
ANALYSIS RUN LOG

Client: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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	09:40																			X						
STD 0.5	1	09:43																			X						
STD 1.0	1	09:45																			X						
STD 5.0	1	09:47																			X						
STD 7.5	1	09:50																			X						
STD 10.0	1	09:52																			X						
ICV1	1	09:55																			X						
ICB1	1	09:57																			X						
CRA	1	09:59																			X						
CCV1	1	10:02																			X						
CCB1	1	10:04																			X						
ZZZZZZ	2	10:07																									
LCSS	1,000	10:09																			X						
K0911120-001	2	10:11																			X						
ZZZZZZ	2	10:14																									
ZZZZZZ	2	10:16																									
ZZZZZZ	2	10:18																									
K0911120-002D	2	10:21																			X						
ZZZZZZ	1	10:23																									
K0911120-002S	10	10:26																			X						
ZZZZZZ	10	10:28																									
CCV2	1	10:30																			X						
CCB2	1	10:33																			X						
K0911120-003	2	10:35																			X						
ZZZZZZ	2	10:37																									
K0911120-004	2	10:40																			X						
ZZZZZZ	2	10:42																									
ZZZZZZ	2	10:45																									
ZZZZZZ	2	10:47																									
K0911120-006	2	10:49																			X						
ZZZZZZ	2	10:52																									
K0911120-007	2	10:54																			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: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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	2	10:57																									
CCV3	1	10:59																			X						
CCB3	1	11:01																			X						
K0911120-008	2	11:04																			X						
ZZZZZZ	2	11:06																									
ZZZZZZ	2	11:09																									
K0911120-009A	2	11:11																			X						
K0911120-010	2	11:13																			X						
ZZZZZZ	2	11:16																									
ZZZZZZ	2	11:18																									
ZZZZZZ	2	11:20																									
K0911120-012	2	11:23																			X						
ZZZZZZ	2	11:25																									
CCV4	1	11:27																			X						
CCB4	1	11:30																			X						
ZZZZZZ	2	11:32																									
ZZZZZZ	2	11:35																									
ZZZZZZ	2	11:37																									
ZZZZZZ	2	11:39																									
K0911120-015	2	11:42																			X						
ZZZZZZ	2	11:44																									
K0911120-016	2	11:47																			X						
ZZZZZZ	2	11:49																									
K0911120-017	2	11:51																			X						
ZZZZZZ	2	11:54																									
CCV5	1	11:56																			X						
CCB5	1	11:59																			X						
K0911120-018	2	12:01																			X						
ZZZZZZ	2	12:03																									
K0911120-MB2	2	12:05																			X						
LCSS2	1,000	12:08																			X						
K0911120-019	2	12:10																			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: Windward Environmental, LLC **Service Request:** K0911120

Project No.: 09.58.02.41

Project Name: Passaic RI/FS Sediment

Instrument ID Number: K-FLAA-02 **Method:** H

Start Date: 12/16/2009 **End Date:** 12/16/2009

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	2	12:13																									
K0911120-019D	2	12:15																			X						
ZZZZZZ	5	12:17																									
K0911120-019S	10	12:20																			X						
ZZZZZZ	10	12:22																									
CCV6	1	12:24																			X						
CCB6	1	12:27																			X						
K0911120-020	2	12:29																			X						
ZZZZZZ	2	12:32																									
K0911120-021	2	12:34																			X						
ZZZZZZ	2	12:36																									
K0911120-022	2	12:39																			X						
ZZZZZZ	2	12:41																									
CCV7	1	12:43																			X						
CCB7	1	12:46																			X						
K0911120-MB	2	12:49																			X						
K0911120-002	2	12:51																			X						
ZZZZZZ	2	12:55																									
K0911120-005	2	12:57																			X						
ZZZZZZ	2	12:59																									
ZZZZZZ	2	13:02																									
ZZZZZZ	2	13:05																									
K0911120-009	2	13:07																			X						
K0911120-011	2	13:10																			X						
K0911120-013	2	13:13																			X						
CCV8	1	13:15																			X						
CCB8	1	13:18																			X						
ZZZZZZ	2	13:20																									
ZZZZZZ	2	13:24																									
K0911120-014	2	13:27																			X						
ZZZZZZ	2	13:30																									
ZZZZZZ	2	13:32																									

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

COLUMBIA ANALYTICAL SERVICES, INC.
FAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
ICV	-	7.601	101%	
ICB	-	0.030		
CRA	-	0.388	78%	
CCV	-	7.493	100%	
CCB	-	0.003		
~~K0911120-MB~~	~~1/2~~	~~0.620~~		Rerun
LCSSK0911120	1/2*1/100*1/5	2.055	107%	
K0911120-001	1/2	2.133		Cx=3.749
K0911120-001A	1/2	4.979	57%	
~~K0911120-002~~	~~1/2~~	~~1.472~~		Rerun
K0911120-002A	1/2	5.493	95%	
K0911120-002D	1/2	1.514		Cx=1.705
K0911120-002DA	1/2	5.954	89%	
K0911120-002S	1/2*1/5	2.314	119%	Cx=2.541
K0911120-002SA	1/2*1/5	7.035	94%	
CCV	-	7.630	102%	
CCB	-	0.054		
K0911120-003	1/2	0.985		4/5/10 Cx=~~1.506~~ 1.586
~~K0911120-003A~~	~~1/2~~	~~4.459~~		Rerun
K0911120-004	1/2	1.124		Cx=1.576
K0911120-004A	1/2	4.691	71%	
~~K0911120-005~~	~~1/2~~	~~2.022~~		Rerun
~~K0911120-005A~~	~~1/2~~	~~5.329~~		Rerun
K0911120-006	1/2	1.764		Cx=3.106
K0911120-006A	1/2	4.605	57%	
K0911120-007	1/2	0.826		Cx=1.281
~~K0911120-007A~~	~~1/2~~	~~5.187~~		Rerun
CCV	-	7.754	103%	
CCB	-	-0.005		
K0911120-008	1/2	0.984		Cx=1.378

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	10ppb (80-120%)	16ppb (75-125%)	146.0mg/kg (80-120%)	20ppb (75-125%)
Selenium	10ppb (72-125%)	16ppb (66-128%)	192.0mg/kg (62-147%)	20ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
Brian Stelle	12/16/09	1

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COLUMBIA ANALYTICAL SERVICES, INC.
GFAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
K0911120-008A	1/2	4.554	71%	
~~K0911120-009~~	~~1/2~~	~~1.543~~		Rerun
OK BSS 4/16/10 ~~K0911120-009A~~	~~1/2~~	~~5.284~~	77%	~~Rerun~~ BSS 4/16/10
K0911120-010	1/2	2.378		Cx=3.687
K0911120-010A	1/2	5.601	65%	
~~K0911120-011~~	~~1/2~~	~~3.754~~		Rerun
K0911120-011A	1/2	6.960	86%	
K0911120-012	1/2	3.985		Cx=7.016
K0911120-012A	1/2	6.825	57%	
CCV	-	7.639	102%	
CCB	-	0.026		
~~K0911120-013~~	~~1/2~~	~~1.815~~		Rerun
K0911120-013A	1/2	6.169	98%	
~~K0911120-014~~	~~1/2~~	~~2.523~~		Rerun
~~K0911120-014A~~	~~1/2~~	~~6.048~~		Rerun
K0911120-015	1/2	2.951		Cx=4.737
K0911120-015A	1/2	6.066	62%	
K0911120-016	1/2	1.516		Cx=2.040
K0911120-016A	1/2	5.233	74%	
K0911120-017	1/2	1.652		Cx=2.499
K0911120-017A	1/2	4.956	66%	
CCV	-	7.766	104%	
CCB	-	0.108		
K0911120-018	1/2	1.260		Cx=2.090
K0911120-018A	1/2	4.273	60%	
K0911120-MB	1/2	-0.016		
LCSSK0911120	1/2*1/100*1/5	1.725	90%	
K0911120-019	1/2	0.452		Cx=0.650
~~K0911120-019A~~	~~1/2~~	~~4.492~~		Rerun
K0911120-019D	1/2	0.728		Cx=0.955

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	8ppb (80-120%)	8ppb (75-125%)	146.0mg/kg (80-120%)	10ppb (75-125%)
Selenium	8ppb (72-125%)	8ppb (66-128%)	73.0mg/kg (62-147%)	10ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
Brian Stell	12/16/09	2

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COLUMBIA ANALYTICAL SERVICES, INC.
GFAA Run Log

Method: (Circle Method Used) 7742 7062 Other:_____ Element: As Se	**Service Request # :**

SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
K0911120-019DA	1/2	4.536	76%	
K0911120-019S	1/2*1/5	1.962	98%	Cx=2.089
K0911120-019SA	1/2*1/5	6.658	94%	
CCV	-	7.729	103%	
CCB	-	0.013		
K0911120-020	1/2	0.346		Cx=0.497
~~K0911120-020A~~	~~1/2~~	~~4.492~~		Rerun
K0911120-021	1/2	2.757		Cx=4.127
K0911120-021A	1/2	6.099	67%	
K0911120-022	1/2	0.822		Cx=1.317
K0911120-022A	1/2	3.944	62%	
CCV	-	7.460	99%	
CCB	-	0.004		
K0911120-MB	1/2	-0.048		
K0911120-002	1/2	0.742		Cx=0.782
K0911120-003A	1/2	4.091	62% ✓	
K0911120-005	1/2	1.186		Cx=2.180
K0911120-005A	1/2	3.905	54%	
K0911120-007A	1/2	4.052	65%	
~~K0911120-009~~	~~1/2~~	~~1.640~~		~~Cx=1.879~~ ASS 4/6/10
spot → ~~K0911120-009A~~	~~1/2~~	~~1.443~~	~~77%~~	~~Cx=1.879~~
K0911120-011	1/2	2.647		Cx=3.067
K0911120-013	1/2	1.255		Cx=1.277
CCV	-	7.464	100%	
CCB	-	-0.009		
~~K0911120-014A~~	~~1/2~~	~~5.648~~		Rerun
K0911120-014A	1/2	4.387	55%	
K0911120-014	1/2	1.646		Cx=3.004
K0911120-019A	1/2	3.928	70%	
K0911120-020A	1/2	3.824	70%	

spot SMA 4/6/10

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	8ppb (80-120%)	8ppb (75-125%)	146.0mg/kg (80-120%)	10ppb (75-125%)
Selenium	8ppb (72-125%)	8ppb (66-128%)	73.0mg/kg (62-147%)	10ppb (64-131%)

Cx = MSA Corrected Concentration (as per method)

Analyst	**Date:**	**Page Number:**
Brian Stellar	12/16/09	3

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