

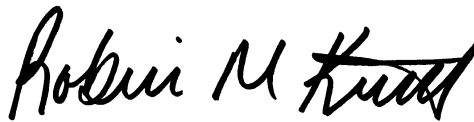
ANALYTICAL REPORT

Job Number: 510-63445-2

Job Description: South Bend Former Studebaker Foundry

For:

Weaver Boos Consultants LLC
4085 Meghan Beeler Court
South Bend, IN 46628
Attention: Jodi Slough



Approved for release.
Robin M Kintz
Project Manager I
5/6/2011 10:51 AM

Robin M Kintz
Project Manager I
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05/06/2011

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Valparaiso Certifications and IDs: New Hampshire (283711), Illinois (100432), Indiana DW (C-64-01), Indiana DW Micro (M-64-4), Washington (C842), Kentucky UST (57) and Foreign Soil Permit (P330-11-00073).

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Job Narrative
510-63445-2

Comments

The client requested to run TCLP lead for sample SB0058:TP33:000020 (510-63445-3) after the total analysis was completed.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
510-63445-3	SB0058:TP33:000020	Solid	03/21/2011 1410	03/22/2011 1535

EXECUTIVE SUMMARY - Detections

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
--------------------------	------------------	--------------------	--------------------	-------	--------

No Detections

METHOD SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Metals (ICP)	TAL VAL	SW846 6010B	
TCLP Extraction	TAL VAL		SW846 1311
Preparation, Total Metals	TAL VAL		SW846 3010A

Lab References:

TAL VAL = TestAmerica Valparaiso

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Method	Analyst	Analyst ID
SW846 6010B	Tharpe, Matt	MT

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Client Sample ID: SB0058:TP33:000020

Lab Sample ID: 510-63445-3

Date Sampled: 03/21/2011 1410

Client Matrix: Solid

Date Received: 03/22/2011 1535

6010B Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	510-79868	Instrument ID:	MICPC
Prep Method:	3010A	Prep Batch:	510-79570	Lab File ID:	41561T
Dilution:	10	Leach Batch:	510-79507	Initial Weight/Volume:	50 mL
Analysis Date:	05/02/2011 1653			Final Weight/Volume:	50 mL
Prep Date:	04/27/2011 0820				
Leach Date:	04/25/2011 1611				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		<0.50		0.50

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Method Blank - Batch: 510-79570

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: MB 510-79570/1-A	Analysis Batch: 510-79868	Instrument ID: MICPC
Client Matrix: Water	Prep Batch: 510-79570	Lab File ID: 41561T
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 05/02/2011 1614	Units: mg/L	Final Weight/Volume: 50 mL
Prep Date: 04/27/2011 0820		
Leach Date: N/A		

Analyte	Result	Qual	RL
Lead	<0.050		0.050

TCLP SPLPE Leachate Blank - Batch: 510-79570

**Method: 6010B
Preparation: 3010A
TCLP**

Lab Sample ID: LB 510-79507/1-B ^10	Analysis Batch: 510-79868	Instrument ID: MICPC
Client Matrix: Solid	Prep Batch: 510-79570	Lab File ID: 41561T
Dilution: 10	Leach Batch: 510-79507	Initial Weight/Volume: 50 mL
Analysis Date: 05/02/2011 1648	Units: mg/L	Final Weight/Volume: 50 mL
Prep Date: 04/27/2011 0820		
Leach Date: 04/25/2011 1611		

Analyte	Result	Qual	RL
Lead	<0.50		0.50

Lab Control Sample - Batch: 510-79570

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: LCS 510-79570/2-A	Analysis Batch: 510-79868	Instrument ID: MICPC
Client Matrix: Water	Prep Batch: 510-79570	Lab File ID: 41561T
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 05/02/2011 1619	Units: mg/L	Final Weight/Volume: 50 mL
Prep Date: 04/27/2011 0820		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.500	0.569	114	80 - 120	

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 510-79570**

**Method: 6010B
Preparation: 3010A
TCLP**

MS Lab Sample ID: 510-63445-3
Client Matrix: Solid
Dilution: 10
Analysis Date: 05/02/2011 1658
Prep Date: 04/27/2011 0820
Leach Date: 04/25/2011 1611

Analysis Batch: 510-79868
Prep Batch: 510-79570
Leach Batch: 510-79507

Instrument ID: MICPC
Lab File ID: 41561T
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 510-63445-3
Client Matrix: Solid
Dilution: 10
Analysis Date: 05/02/2011 1703
Prep Date: 04/27/2011 0820
Leach Date: 04/25/2011 1611

Analysis Batch: 510-79868
Prep Batch: 510-79570
Leach Batch: 510-79507

Instrument ID: MICPC
Lab File ID: 41561T
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Lead	100	101	50 - 150	1	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 510-79570**

**Method: 6010B
Preparation: 3010A
TCLP**

MS Lab Sample ID: 510-63445-3
Client Matrix: Solid
Dilution: 10
Analysis Date: 05/02/2011 1658
Prep Date: 04/27/2011 0820
Leach Date: 04/25/2011 1611

Units: mg/L

MSD Lab Sample ID: 510-63445-3
Client Matrix: Solid
Dilution: 10
Analysis Date: 05/02/2011 1703
Prep Date: 04/27/2011 0820
Leach Date: 04/25/2011 1611

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Lead	<0.50	4.00	4.00	4.19	4.21

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 510-79507					
LB 510-79507/1-B ^10	TCLP SPLPE Leachate Blank	P	Solid	1311	
510-63445-3	SB0058:TP33:000020	P	Solid	1311	
510-63445-3MS	Matrix Spike	P	Solid	1311	
510-63445-3MSD	Matrix Spike Duplicate	P	Solid	1311	
Prep Batch: 510-79570					
LCS 510-79570/2-A	Lab Control Sample	T	Water	3010A	
MB 510-79570/1-A	Method Blank	T	Water	3010A	
LB 510-79507/1-B ^10	TCLP SPLPE Leachate Blank	P	Solid	3010A	510-79507
510-63445-3	SB0058:TP33:000020	P	Solid	3010A	510-79507
510-63445-3MS	Matrix Spike	P	Solid	3010A	510-79507
510-63445-3MSD	Matrix Spike Duplicate	P	Solid	3010A	510-79507
Analysis Batch:510-79868					
LB 510-79507/1-B ^10	TCLP SPLPE Leachate Blank	P	Solid	6010B	510-79570
LCS 510-79570/2-A	Lab Control Sample	T	Water	6010B	510-79570
MB 510-79570/1-A	Method Blank	T	Water	6010B	510-79570
510-63445-3	SB0058:TP33:000020	P	Solid	6010B	510-79570
510-63445-3MS	Matrix Spike	P	Solid	6010B	510-79570
510-63445-3MSD	Matrix Spike Duplicate	P	Solid	6010B	510-79570

Report Basis

P = TCLP

T = Total

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Laboratory Chronicle

Lab ID: 510-63445-3

Client ID: SB0058:TP33:000020

Sample Date/Time: 03/21/2011 14:10 Received Date/Time: 03/22/2011 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	510-63445-J-3-E ^10		510-79868	510-79570	04/27/2011 08:20	10	TAL VAL	LWN
A:6010B	510-63445-J-3-E ^10		510-79868	510-79570	05/02/2011 16:53	10	TAL VAL	MT

Lab ID: 510-63445-3 MS

Client ID: SB0058:TP33:000020

Sample Date/Time: 03/21/2011 14:10 Received Date/Time: 03/22/2011 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	510-63445-J-3-F MS ^10		510-79868	510-79570	04/27/2011 08:20	10	TAL VAL	LWN
A:6010B	510-63445-J-3-F MS ^10		510-79868	510-79570	05/02/2011 16:58	10	TAL VAL	MT

Lab ID: 510-63445-3 MSD

Client ID: SB0058:TP33:000020

Sample Date/Time: 03/21/2011 14:10 Received Date/Time: 03/22/2011 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	510-63445-J-3-G MSD ^10		510-79868	510-79570	04/27/2011 08:20	10	TAL VAL	LWN
A:6010B	510-63445-J-3-G MSD ^10		510-79868	510-79570	05/02/2011 17:03	10	TAL VAL	MT

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	MB 510-79570/1-A		510-79868	510-79570	04/27/2011 08:20	1	TAL VAL	LWN
A:6010B	MB 510-79570/1-A		510-79868	510-79570	05/02/2011 16:14	1	TAL VAL	MT

Lab ID: LB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LB 510-79507/1-B ^10		510-79868	510-79570	04/27/2011 08:20	10	TAL VAL	LWN
A:6010B	LB 510-79507/1-B ^10		510-79868	510-79570	05/02/2011 16:48	10	TAL VAL	MT

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LCS 510-79570/2-A		510-79868	510-79570	04/27/2011 08:20	1	TAL VAL	LWN
A:6010B	LCS 510-79570/2-A		510-79868	510-79570	05/02/2011 16:19	1	TAL VAL	MT

Lab References:

TAL VAL = TestAmerica Valparaiso

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Valparaiso Job Number: 510-63445-2

SDG No.: _____

Project: South Bend Former Studebaker Foundry

Client Sample ID
SB0058:TP33:000020

Lab Sample ID
510-63445-3

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TCLP

Client Sample ID: SB0058:TP33:000020

Lab Sample ID: 510-63445-3

Lab Name: TestAmerica Valparaiso

Job No.: 510-63445-2

SDG ID.: _____

Matrix: Solid

Date Sampled: 03/21/2011 14:10

Reporting Basis: WET

Date Received: 03/22/2011 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	<0.50	0.50	0.064	mg/L			10	6010B

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

ICV Source: MEQC723 +_00090 Concentration Units: mg/L

CCV Source: MEQC723 +_00090

Analyte	ICV 510-79868/4 05/02/2011 10:33				CCV 510-79868/41 05/02/2011 15:23				CCV 510-79868/54 05/02/2011 16:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	1.99		2.00	100	2.12		2.00	106	2.08		2.00	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

ICV Source: MEQC723 +_00090 Concentration Units: mg/L

CCV Source: MEQC723 +_00090

Analyte	CCV 510-79868/66 05/02/2011 17:39											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	2.09		2.00	104								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 510-79868/5 05/02/2011 10:40		CCB 510-79868/42 05/02/2011 15:28		CCB 510-79868/55 05/02/2011 16:43		CCB 510-79868/67 05/02/2011 17:44	
		Found	C	Found	C	Found	C	Found	C
Lead	0.050	<0.050		<0.050		<0.050		<0.050	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: MB 510-79570/1-A
Instrument Code: MICPC Batch No.: 79868

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	<0.050			6010B

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: LB 510-79507/1-B ^10
Instrument Code: MICPC Batch No.: 79868

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	<0.50			6010B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Valparaiso

Job No.: 510-63445-2

SDG No.: _____

Lab Sample ID: ICSAB 510-79868/6

Instrument ID: MICPC

Lab File ID: 41561T

ICS Source: meicpicsab_00076

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Lead	1.00	1.03	103
Aluminum	250	252	101
Antimony		0.0003	
Arsenic		0.0015	
Barium	0.500	0.530	106
Beryllium	0.500	0.523	105
Boron		0.0512	
Cadmium	1.00	1.02	102
Calcium	250	248	99
Chromium	0.500	0.501	100
Cobalt	0.500	0.493	99
Copper	0.500	0.516	103
Iron	100	95.9	96
Lithium		0.0001	
Magnesium	250	262	105
Manganese	0.500	0.512	102
Molybdenum		0.0003	
Nickel	1.00	0.991	99
Phosphorus		-0.281	
Potassium		0.0178	
Selenium		-0.0137	
Silicon		-0.0149	
Silver	1.00	1.08	108
SiO ₂ , Silica		-0.0320	
Sodium		0.0151	
Sodium		0.167	
Strontium		0.0032	
Thallium		-0.0029	
Tin		0.0006	
Titanium		-0.0109	
Vanadium	0.500	0.510	102
Zinc	1.00	1.11	111

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TCLP

Client ID: SB0058:TP33:000020 MS Lab ID: 510-63445-3 MS
 Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2
 SDG No.: _____
 Matrix: Solid Concentration Units: mg/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	4.19	<0.50	4.00	100	50-150		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TCLP

Client ID: SB0058:TP33:000020 MSD Lab ID: 510-63445-3 MSD
 Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2
 SDG No.: _____
 Matrix: Solid Concentration Units: mg/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	4.21	4.00	101	50-150	1	20		6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 510-79570/2-A

Lab Name: TestAmerica Valparaiso

Job No.: 510-63445-2

Sample Matrix: Water

LCS Source: MEQC23_00029

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	0.500	0.569		114	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Valparaiso

Job Number: 510-63445-2

SDG Number: _____

Matrix: Solid

Instrument ID: MICPC

Method: 6010B

MDL Date: 02/09/2009 13:51

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Lead	220.3	0.05	0.00645

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Valparaiso Job Number: 510-63445-2
SDG Number: _____
Matrix: Solid Instrument ID: MICPC
Method: 6010B XMDL Date: 02/09/2009 13:54

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Lead	220.3	0.05	0.00645

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Valparaiso

Job Number: 510-63445-2

SDG No.: _____

ICP-AES Instrument ID: MICPC

Date: 04/09/2010

Analyte	Wave Length	Al	Ca	Co	Cr	Fe	Mn	Mo	Ni	Ti	V				
Aluminum	308.2														
Antimony	206.8				0.019256						-0.013591				
Arsenic	189.0														
Barium	493.4														
Beryllium	313.0														
Bismuth	223.0														
Boron	249.6					-0.002966									
Cadmium	226.5					0.000047									
Calcium	317.9										-0.00612				
Chromium	267.7														
Cobalt	334.9														
Copper	324.7														
Iron	271.4			0.088120											
Lead	220.3														
Lithium	670.7														
Magnesium	279.0														
Manganese	257.6														
Molybdenum	202.0														
Nickel	231.6														
Phosphorus	214.9		-0.000465												
Potassium	766.4														
Selenium	196.0					-0.000206	0.000653								
Silicon	288.1	-0.000455	-0.000482								-0.00588				
Silver	328.0														
Sodium	588.9										-0.170801				
Strontium	421.5														
Thallium	190.8						-0.004243								
Tin	189.9														
Titanium	334.9		-0.000398												
Vanadium	292.4							-0.001457		0.000679					

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Valparaiso Job Number: 510-63445-2

SDG No.: _____

ICP-AES Instrument ID: MICPC Date: 04/09/2010

Analyte	Wave Length	Al	Ca	Co	Cr	Fe	Mn	Mo	Ni	Ti	V				
Zinc	213.8	0.000339	0.000137						0.005061		0.006025				

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Valparaiso

Job No: 510-63445-2

SDG No.: _____

Instrument ID: MICPC

Date: 02/22/2011 15:26

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Lead		100	6010B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Valparaiso

Job No.: 510-63445-2

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 510-79570/1-A	04/27/2011 08:20	79570		50	50
LCS 510-79570/2-A	04/27/2011 08:20	79570		50	50
LB 510-79507/1-B ^10	04/27/2011 08:20	79570		50	50
510-63445-3	04/27/2011 08:20	79570		50	50
510-63445-3 MS	04/27/2011 08:20	79570		50	50
510-63445-3 MSD	04/27/2011 08:20	79570		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

Instrument ID: MICPC Method: 6010B

Start Date: 05/02/2011 10:16 End Date: 05/02/2011 19:11

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				P b																	
ZZZZZZ			10:16																		
ZZZZZZ			10:21																		
ZZZZZZ			10:26																		
ICV 510-79868/4	1		10:33	X																	
ICB 510-79868/5	1		10:40	X																	
ICSAB 510-79868/6	1		10:47	X																	
ZZZZZZ			11:28																		
ZZZZZZ			11:34																		
ZZZZZZ			11:40																		
ZZZZZZ			11:46																		
ZZZZZZ			11:52																		
ZZZZZZ			11:58																		
ZZZZZZ			12:04																		
ZZZZZZ			12:10																		
ZZZZZZ			12:16																		
ZZZZZZ			12:22																		
ZZZZZZ			12:28																		
ZZZZZZ			12:34																		
ZZZZZZ			12:40																		
ZZZZZZ			12:46																		
ZZZZZZ			12:52																		
ZZZZZZ			13:05																		
ZZZZZZ			13:11																		
ZZZZZZ			13:16																		
ZZZZZZ			13:22																		
ZZZZZZ			13:27																		
ZZZZZZ			13:33																		
ZZZZZZ			13:38																		
CCV 510-79868/29			13:44																		
CCB 510-79868/30			13:49																		
ZZZZZZ			14:32																		
ZZZZZZ			14:37																		
ZZZZZZ			14:42																		
ZZZZZZ			14:47																		
ZZZZZZ			14:52																		
ZZZZZZ			14:57																		
ZZZZZZ			15:02																		
ZZZZZZ			15:07																		
ZZZZZZ			15:12																		
ZZZZZZ			15:18																		
CCV 510-79868/41	1		15:23	X																	
CCB 510-79868/42	1		15:28	X																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

Instrument ID: MICPC Method: 6010B

Start Date: 05/02/2011 10:16 End Date: 05/02/2011 19:11

Lab Sample ID	D / F	T y p e	Time	Analytes															
				P b															
ZZZZZZ			15:33																
ZZZZZZ			15:38																
ZZZZZZ			15:43																
ZZZZZZ			15:48																
ZZZZZZ			15:53																
ZZZZZZ			15:59																
ZZZZZZ			16:04																
ZZZZZZ			16:09																
MB 510-79570/1-A	1	T	16:14	X															
LCS 510-79570/2-A	1	T	16:19	X															
ZZZZZZ			16:24																
CCV 510-79868/54	1		16:37	X															
CCB 510-79868/55	1		16:43	X															
LB 510-79507/1-B ^10	10	P	16:48	X															
510-63445-3	10	P	16:53	X															
510-63445-3 MS	10	P	16:58	X															
510-63445-3 MSD	10	P	17:03	X															
ZZZZZZ			17:08																
ZZZZZZ			17:13																
ZZZZZZ			17:19																
ZZZZZZ			17:24																
ZZZZZZ			17:29																
ZZZZZZ			17:34																
CCV 510-79868/66	1		17:39	X															
CCB 510-79868/67	1		17:44	X															
ZZZZZZ			17:49																
ZZZZZZ			17:54																
ZZZZZZ			17:59																
ZZZZZZ			18:05																
ZZZZZZ			18:10																
ZZZZZZ			18:15																
ZZZZZZ			18:20																
ZZZZZZ			18:25																
ZZZZZZ			18:30																
ZZZZZZ			18:35																
CCV 510-79868/78			18:40																
CCB 510-79868/79			18:45																
ZZZZZZ			18:51																
ZZZZZZ			18:56																
ZZZZZZ			19:01																
CCV 510-79868/83			19:06																
CCB 510-79868/84			19:11																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

Instrument ID: MICPC Method: 6010B

Start Date: 05/02/2011 10:16 End Date: 05/02/2011 19:11

Prep Types

P = TCLP

T = Total/NA

Method: TESTAM2 Standard: calb
 Run Time: 05/02/11 10:16:23

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Avge	-.00002	.00411	-.00057	.00225	.00003	.00099	-.00071
SDev	.00000	.00009	.00030	.00041	.00008	.00001	.00040
%RSD	.70843	2.1849	53.035	18.264	223.28	1.4120	56.965
#1	-.00002	.00405	-.00036	.00196	-.00002	.00100	-.00099
#2	-.00002	.00417	-.00079	.00254	.00009	.00098	-.00042
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Avge	.01311	.00083	-.00003	.00079	.00649	.00033	-.00330
SDev	.00000	.00043	.00006	.00001	.00003	.00012	.00110
%RSD	.01492	52.270	181.37	1.5978	.47639	37.913	33.371
#1	.01311	.00113	-.00008	.00080	.00647	.00024	-.00408
#2	.01311	.00052	.00001	.00078	.00651	.00041	-.00252
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Avge	.00010	.00019	.00066	.0269	.0002	.00039	-.00010
SDev	.00000	.00002	.00028	.0001	.0002	.00001	.00003
%RSD	.70843	11.583	42.954	.5132	113.4	2.4984	28.964
#1	.00010	.00021	.00046	.0268	.0004	.00040	-.00012
#2	.00010	.00018	.00086	.0270	.0000	.00038	-.00008
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Si2881	Sn1899
Avge	.00021	.00119	-.00051	-.00399	.00201	.00193	-.00076
SDev	.00006	.00074	.00026	.00092	.00033	.00001	.00041
%RSD	28.922	62.219	51.418	22.946	16.336	.70842	54.497
#1	.00017	.00067	-.00070	-.00464	.00225	.00194	-.00047
#2	.00026	.00171	-.00032	-.00335	.00178	.00192	-.00105
Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2138	Li6707	P_2149
Avge	.00041	.00054	-.00045	.00009	.00488	.0001	-.0040
SDev	.00009	.00002	.00034	.00001	.00001	.0000	.0003
%RSD	22.841	3.1843	75.930	15.013	.29457	6.364	7.127
#1	.00048	.00053	-.00069	.00008	.00487	.0001	-.0042
#2	.00034	.00055	-.00021	.00010	.00489	.0001	-.0038
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	101112	--	--	--	--	--	--
SDev	716.2992	--	--	--	--	--	--
%RSD	.7084251	--	--	--	--	--	--
#1	100605	--	--	--	--	--	--
#2	101618	--	--	--	--	--	--

Method: TESTAM2 Standard: callc00053
 Run Time: 05/02/11 10:21:36

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Avge	.37478	.48708	2.9205	1.2938	1.9014	4.7770	3.4992
SDev	.00096	.00121	.0021	.0036	.0061	.0126	.0088
%RSD	.25554	.24865	.07120	.27762	.31974	.26471	.25095
#1	.37546	.48793	2.9190	1.2964	1.9057	4.7860	3.5054
#2	.37410	.48622	2.9220	1.2913	1.8971	4.7681	3.4930
Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Avge	14.272	.29654	.19600	.28875	.23834	1.0193	1.1215
SDev	.039	.00048	.00053	.00132	.00039	.0012	.0042
%RSD	.27007	.16141	.26891	.45677	.16498	.11694	.37552
#1	14.299	.29688	.19638	.28969	.23862	1.0201	1.1245
#2	14.245	.29620	.19563	.28782	.23806	1.0184	1.1185
Elem	Mn2576	Mo2020	NA5889	Ni2316	2203/1	2203/2	2068/1
Avge	.97235	1.0862	5.145	.82652	8.1029	2.1361	.82605
SDev	.00276	.0213	.019	.00234	.0272	.0051	.04974
%RSD	.28431	1.9595	.3731	.28328	.33622	.23961	6.0220
#1	.97431	1.0712	5.159	.82818	8.1222	2.1397	.79087
#2	.97040	1.1013	5.132	.82486	8.0836	2.1324	.86122
Elem	2068/2	1960/1	1960/2	Tl1908	V_2924	Zn2138	
Avge	.59681	1.0412	.81701	.25528	.16695	1.1277	
SDev	.00713	.0002	.00103	.00016	.00042	.0039	
%RSD	1.1942	.01799	.12611	.06115	.24842	.34166	
#1	.59177	1.0413	.81628	.25517	.16725	1.1304	
#2	.60185	1.0411	.81774	.25539	.16666	1.1250	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	96416	--	--	--	--	--	--
SDev	129.4005	--	--	--	--	--	--
%RSD	.1342100	--	--	--	--	--	--
#1	96325	--	--	--	--	--	--
#2	96508	--	--	--	--	--	--

Method: TESTAM2 Standard: cal2c00058
 Run Time: 05/02/11 10:26:43

Elem	Bi2230	NA3302	Si2881	Sn1899	Sr4215	Ti3349	Li6707
Avge	.06838	.1568	.13658	.30887	6.1825	1.7717	5.638
SDev	.00005	.0002	.00027	.00109	.0097	.0007	.009
%RSD	.06998	.1541	.19948	.35373	.15695	.03914	.1666

#1	.06841	.1569	.13677	.30809	6.1893	1.7722	5.644
#2	.06834	.1566	.13639	.30964	6.1756	1.7712	5.631

Elem	P_2149
Avge	1.585
SDev	.004
%RSD	.2451

#1	1.588
#2	1.582

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	100032	--	--	--	--	--	--
SDev	12.72792	--	--	--	--	--	--
%RSD	.0127239	--	--	--	--	--	--

#1	100041	--	--	--	--	--	--
#2	100023	--	--	--	--	--	--

Method: TESTAM2 Sample Name: icv 675717 Operator: bjh
 Run Time: 05/02/11 10:33:13
 Comment: 200.7/6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.9949	2.0658	1.9947	1.9269	1.9081	1.9395	Q.00256
SDev	.0079	.0120	.0142	.0026	.0016	.0016	.00009
%RSD	.39457	.58298	.71015	.13550	.08521	.08026	3.4143
#1	2.0004	2.0744	1.9847	1.9288	1.9093	1.9406	Q.00262
#2	1.9893	2.0573	2.0047	1.9251	1.9070	1.9384	Q.00250
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.0345	2.0259	2.0025	1.9190	1.9279	2.0111	Q18.259
SDev	.0005	.0023	.0005	.0028	.0042	.0013	.032
%RSD	.02664	.11427	.02644	.14494	.21837	.06330	.17576
#1	2.0349	2.0275	2.0029	1.9210	1.9309	2.0102	Q18.282
#2	2.0341	2.0242	2.0022	1.9171	1.9249	2.0120	Q18.236
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	20.000
Range	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.9825	2.0404	2.0319	Q18.33	21.20	2.0457	1.9961
SDev	.0005	.0035	.0309	.04	.05	.0004	.0009
%RSD	.02343	.17357	1.5212	.2183	.2200	.01927	.04609
#1	1.9828	2.0429	2.0101	Q18.36	21.23	2.0459	1.9955
#2	1.9822	2.0379	2.0538	Q18.30	21.16	2.0454	1.9968
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	2.0000	2.0000	22.00	22.00	2.0000	
Range	5.0000	5.0000	5.0000	5.000	5.000	5.0000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.9941	1.9948	1.9807	Q2.3531	2.3622	2.3485	1.9792
SDev	.0017	.0009	.0047	.0991	.1618	.0678	.0063
%RSD	.08732	.04282	.23808	4.2115	6.8475	2.8858	.31827
#1	1.9953	1.9954	1.9773	Q2.2830	2.2478	2.3006	1.9747
#2	1.9928	1.9941	1.9840	Q2.4231	2.4766	2.3964	1.9836
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK
Value		2.0000	2.0000	2.0000			
Range		5.0000	5.0000	5.0000			
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.9814	10.959	2.0184	1.9463	1.9740	1.9854	1.9270
SDev	.0039	.010	.0042	.0029	.0025	.0034	.0035
%RSD	.19803	.09012	.20998	.14983	.12841	.17046	.18411

#1	1.9786	10.966	2.0214	1.9484	1.9758	1.9878	1.9295
#2	1.9842	10.952	2.0154	1.9443	1.9722	1.9831	1.9245
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		11.000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	2.0337	Q1.867	1.984				
SDev	.0045	.002	.004				
%RSD	.21895	.0849	.2076				
#1	2.0369	Q1.869	1.987				
#2	2.0306	Q1.866	1.981				
Errors	QC Pass	QC Fail	QC Pass				
Value	2.0000	2.000	2.000				
Range	5.0000	5.000	5.000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	100580	--	--	--	--	--	--
SDev	188.7975	--	--	--	--	--	--
%RSD	.1877079	--	--	--	--	--	--
#1	100447	--	--	--	--	--	--
#2	100714	--	--	--	--	--	--

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ccb	41561T	TESTAM2	04/28/11	18:11	bjh	B	CONC
2	calb	41561T	TESTAM2	04/29/11	09:18		X	IR
3	cal1c00053	41561T	TESTAM2	04/29/11	09:23		X	IR
4	cal2c00058	41561T	TESTAM2	04/29/11	09:29		X	IR
5	icv 675717	41561T	TESTAM2	04/29/11	09:35	bjh	Q	CONC
6	cal1c00053	41561T	TESTAM2	04/29/11	09:44		X	IR
7	cal2c00058	41561T	TESTAM2	04/29/11	09:54		X	IR
8	icv 675717	41561T	TESTAM2	04/29/11	10:10	bjh	Q	CONC
9	icb	41561T	TESTAM2	04/29/11	10:17	bjh	B	CONC
10	icsab 668482	41561T	TESTAM2	04/29/11	10:24	bjh	Q	CONC
11	61311a1	41561T	TESTAM2	04/29/11	11:16	mt	S	CONC
12	61311a1 @2	41561T	TESTAM2	04/29/11	11:22	mt	S	CONC
13	61311a1 @5	41561T	TESTAM2	04/29/11	11:27	mt	S	CONC
14	ccv	41561T	TESTAM2	04/29/11	11:33	mt	Q	CONC
15	ccb	41561T	TESTAM2	04/29/11	11:38	mt	B	CONC
16	692001	41561T	TESTAM2	04/29/11	11:53	bjh	S	CONC
17	692002	41561T	TESTAM2	04/29/11	11:58	bjh	S	CONC
18	64318a1b1	41561T	TESTAM2	04/29/11	12:03	bjh	S	CONC
19	64318a1c du1	41561T	TESTAM2	04/29/11	12:08	bjh	S	CONC
20	64318a1d ms1	41561T	TESTAM2	04/29/11	12:13	bjh	S	CONC
21	64363b1b1	41561T	TESTAM2	04/29/11	12:18	bjh	S	CONC
22	64370a1a1	41561T	TESTAM2	04/29/11	12:23	bjh	S	CONC
23	64370a2a1	41561T	TESTAM2	04/29/11	12:29	bjh	S	CONC
24	64370a3a1	41561T	TESTAM2	04/29/11	12:34	bjh	S	CONC
25	64370a4a1	41561T	TESTAM2	04/29/11	12:39	bjh	S	CONC
26	ccv	41561T	TESTAM2	04/29/11	12:44	bjh	Q	CONC
27	ccb	41561T	TESTAM2	04/29/11	12:49	bjh	B	CONC
28	64370a5a1	41561T	TESTAM2	04/29/11	12:54	bjh	S	CONC
29	64370a6a1	41561T	TESTAM2	04/29/11	12:59	bjh	S	CONC
30	64370a7a1	41561T	TESTAM2	04/29/11	13:04	bjh	S	CONC
31	64370a8a1	41561T	TESTAM2	04/29/11	13:09	bjh	S	CONC
32	64431a1a @5	41561T	TESTAM2	04/29/11	13:15	bjh	S	CONC
33	64411c1a1	41561T	TESTAM2	04/29/11	13:20	bjh	S	CONC
34	64424b1b du1	41561T	TESTAM2	04/29/11	13:25	bjh	S	CONC
35	64424b1c ms1	41561T	TESTAM2	04/29/11	13:30	bjh	S	CONC
36	64424b1a1	41561T	TESTAM2	04/29/11	13:35	bjh	S	CONC
37	ccv	41561T	TESTAM2	04/29/11	13:44	bjh	Q	CONC
38	ccb	41561T	TESTAM2	04/29/11	13:49	bjh	B	CONC
39	64709-1 prelim@2	41561T	TESTAM2	04/29/11	13:54	bjh	S	CONC
40	693311 @2	41561T	TESTAM2	04/29/11	14:00	bjh	S	CONC
41	693312 @2	41561T	TESTAM2	04/29/11	14:05	bjh	S	CONC
42	64418a1a @2	41561T	TESTAM2	04/29/11	14:10	bjh	S	CONC
43	64418a1b ms @2	41561T	TESTAM2	04/29/11	14:15	bjh	S	CONC
44	64418a1c msd @2	41561T	TESTAM2	04/29/11	14:20	bjh	S	CONC
45	64418a1a sd @10	41561T	TESTAM2	04/29/11	14:25	bjh	S	CONC
46	64403a1a 1	41561T	TESTAM2	04/29/11	14:30	bjh	S	CONC
47	64403a1a @2	41561T	TESTAM2	04/29/11	14:35	bjh	S	CONC
48	ccv	41561T	TESTAM2	04/29/11	14:41	bjh	Q	CONC
49	ccb	41561T	TESTAM2	04/29/11	14:46	bjh	B	CONC
50	64633-1 prelim @10	41561T	TESTAM2	04/29/11	15:29	mt	S	CONC
51	ccv	41561T	TESTAM2	04/29/11	16:00	bjh	Q	CONC
52	ccb	41561T	TESTAM2	04/29/11	16:06	bjh	B	CONC
53	693311 @2	1 41561T	TESTAM2	04/29/11	16:30	mt	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	693312 @2	41561T	TESTAM2	04/29/11	16:36	mt	S	CONC
55	64418a1a @2	41561T	TESTAM2	04/29/11	16:41	mt	S	CONC

56	64418a1b ms @2	41561T	TESTAM2	04/29/11	16:47	mt	S	CONC
57	64418a1c msd @2	41561T	TESTAM2	04/29/11	16:52	mt	S	CONC
58	64403a1a1	41561T	TESTAM2	04/29/11	16:58	mt	S	CONC
59	64403a1a @5	41561T	TESTAM2	04/29/11	17:03	mt	S	CONC
60	64403a1a @10	41561T	TESTAM2	04/29/11	17:09	mt	S	CONC
61	64403a1a @20	41561T	TESTAM2	04/29/11	17:14	mt	S	CONC
62	ccv	41561T	TESTAM2	04/29/11	17:20	mt	Q	CONC
63	ccb	41561T	TESTAM2	04/29/11	17:25	mt	B	CONC
64	64403a1a @50	41561T	TESTAM2	04/29/11	17:40	mt	S	CONC
65	ccv	41561T	TESTAM2	04/29/11	17:45	mt	Q	CONC
66	ccb	41561T	TESTAM2	04/29/11	17:51	mt	B	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ccb	41561T	TESTAM2	04/28/11	18:11	bjh	B	CONC
2	calb	41561T	TESTAM2	04/29/11	09:18		X	IR
3	cal1c00053	41561T	TESTAM2	04/29/11	09:23		X	IR
4	cal2c00058	41561T	TESTAM2	04/29/11	09:29		X	IR
5	icv 675717	41561T	TESTAM2	04/29/11	09:35	bjh	Q	CONC
6	cal1c00053	41561T	TESTAM2	04/29/11	09:44		X	IR
7	cal2c00058	41561T	TESTAM2	04/29/11	09:54		X	IR
8	icv 675717	41561T	TESTAM2	04/29/11	10:10	bjh	Q	CONC
9	icb	41561T	TESTAM2	04/29/11	10:17	bjh	B	CONC
10	icsab 668482	41561T	TESTAM2	04/29/11	10:24	bjh	Q	CONC
11	61311a1	41561T	TESTAM2	04/29/11	11:16	mt	S	CONC
12	61311a1 @2	41561T	TESTAM2	04/29/11	11:22	mt	S	CONC
13	61311a1 @5	41561T	TESTAM2	04/29/11	11:27	mt	S	CONC
14	ccv	41561T	TESTAM2	04/29/11	11:33	mt	Q	CONC
15	ccb	41561T	TESTAM2	04/29/11	11:38	mt	B	CONC
16	692001	41561T	TESTAM2	04/29/11	11:53	bjh	S	CONC
17	692002	41561T	TESTAM2	04/29/11	11:58	bjh	S	CONC
18	64318a1b1	41561T	TESTAM2	04/29/11	12:03	bjh	S	CONC
19	64318a1c du1	41561T	TESTAM2	04/29/11	12:08	bjh	S	CONC
20	64318a1d ms1	41561T	TESTAM2	04/29/11	12:13	bjh	S	CONC
21	64363b1b1	41561T	TESTAM2	04/29/11	12:18	bjh	S	CONC
22	64370a1a1	41561T	TESTAM2	04/29/11	12:23	bjh	S	CONC
23	64370a2a1	41561T	TESTAM2	04/29/11	12:29	bjh	S	CONC
24	64370a3a1	41561T	TESTAM2	04/29/11	12:34	bjh	S	CONC
25	64370a4a1	41561T	TESTAM2	04/29/11	12:39	bjh	S	CONC
26	ccv	41561T	TESTAM2	04/29/11	12:44	bjh	Q	CONC
27	ccb	41561T	TESTAM2	04/29/11	12:49	bjh	B	CONC
28	64370a5a1	41561T	TESTAM2	04/29/11	12:54	bjh	S	CONC
29	64370a6a1	41561T	TESTAM2	04/29/11	12:59	bjh	S	CONC
30	64370a7a1	41561T	TESTAM2	04/29/11	13:04	bjh	S	CONC
31	64370a8a1	41561T	TESTAM2	04/29/11	13:09	bjh	S	CONC
32	64431a1a @5	41561T	TESTAM2	04/29/11	13:15	bjh	S	CONC
33	64411c1a1	41561T	TESTAM2	04/29/11	13:20	bjh	S	CONC
34	64424b1b du1	41561T	TESTAM2	04/29/11	13:25	bjh	S	CONC
35	64424b1c ms1	41561T	TESTAM2	04/29/11	13:30	bjh	S	CONC
36	64424b1a1	41561T	TESTAM2	04/29/11	13:35	bjh	S	CONC
37	ccv	41561T	TESTAM2	04/29/11	13:44	bjh	Q	CONC
38	ccb	41561T	TESTAM2	04/29/11	13:49	bjh	B	CONC
39	64709-1 prelim@2	41561T	TESTAM2	04/29/11	13:54	bjh	S	CONC
40	693311 @2	41561T	TESTAM2	04/29/11	14:00	bjh	S	CONC
41	693312 @2	41561T	TESTAM2	04/29/11	14:05	bjh	S	CONC
42	64418a1a @2	41561T	TESTAM2	04/29/11	14:10	bjh	S	CONC
43	64418a1b ms @2	41561T	TESTAM2	04/29/11	14:15	bjh	S	CONC
44	64418a1c msd @2	41561T	TESTAM2	04/29/11	14:20	bjh	S	CONC
45	64418a1a sd @10	41561T	TESTAM2	04/29/11	14:25	bjh	S	CONC
46	64403a1a 1	41561T	TESTAM2	04/29/11	14:30	bjh	S	CONC
47	64403a1a @2	41561T	TESTAM2	04/29/11	14:35	bjh	S	CONC
48	ccv	41561T	TESTAM2	04/29/11	14:41	bjh	Q	CONC
49	ccb	41561T	TESTAM2	04/29/11	14:46	bjh	B	CONC
50	64633-1 prelim @10	41561T	TESTAM2	04/29/11	15:29	mt	S	CONC
51	ccv	41561T	TESTAM2	04/29/11	16:00	bjh	Q	CONC
52	ccb	41561T	TESTAM2	04/29/11	16:06	bjh	B	CONC
53	693311 @2	1 41561T	TESTAM2	04/29/11	16:30	mt	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	693312 @2	41561T	TESTAM2	04/29/11	16:36	mt	S	CONC
55	64418a1a @2	41561T	TESTAM2	04/29/11	16:41	mt	S	CONC

56	64418a1b ms @2	41561T	TESTAM2	04/29/11	16:47	mt	S	CONC
57	64418a1c msd @2	41561T	TESTAM2	04/29/11	16:52	mt	S	CONC
58	64403a1a1	41561T	TESTAM2	04/29/11	16:58	mt	S	CONC
59	64403a1a @5	41561T	TESTAM2	04/29/11	17:03	mt	S	CONC
60	64403a1a @10	41561T	TESTAM2	04/29/11	17:09	mt	S	CONC
61	64403a1a @20	41561T	TESTAM2	04/29/11	17:14	mt	S	CONC
62	ccv	41561T	TESTAM2	04/29/11	17:20	mt	Q	CONC
63	ccb	41561T	TESTAM2	04/29/11	17:25	mt	B	CONC
64	64403a1a @50	41561T	TESTAM2	04/29/11	17:40	mt	S	CONC
65	ccv	41561T	TESTAM2	04/29/11	17:45	mt	Q	CONC
66	ccb	41561T	TESTAM2	04/29/11	17:51	mt	B	CONC
67	64313a4	41561T	TESTAM2	04/29/11	18:11	mt	S	CONC
68	64313a5	41561T	TESTAM2	04/29/11	18:16	mt	S	CONC
69	64313a6	41561T	TESTAM2	04/29/11	18:22	mt	S	CONC
70	64313a7	41561T	TESTAM2	04/29/11	18:27	mt	S	CONC
71	64313a8	41561T	TESTAM2	04/29/11	18:33	mt	S	CONC
72	64313a9	41561T	TESTAM2	04/29/11	18:38	mt	S	CONC
73	64313a10	41561T	TESTAM2	04/29/11	18:44	mt	S	CONC
74	64313a11	41561T	TESTAM2	04/29/11	18:49	mt	S	CONC
75	64313a12	41561T	TESTAM2	04/29/11	18:55	mt	S	CONC
76	64313a13	41561T	TESTAM2	04/29/11	19:00	mt	S	CONC
77	ccv	41561T	TESTAM2	04/29/11	19:06	mt	Q	CONC
78	ccb	41561T	TESTAM2	04/29/11	19:11	mt	B	CONC
79	64313a14	41561T	TESTAM2	04/29/11	19:17	mt	S	CONC
80	64313a15	41561T	TESTAM2	04/29/11	19:22	mt	S	CONC
81	64313a16	41561T	TESTAM2	04/29/11	19:28	mt	S	CONC
82	64313a17	41561T	TESTAM2	04/29/11	19:33	mt	S	CONC
83	64313a18	41561T	TESTAM2	04/29/11	19:38	mt	S	CONC
84	64313a19	41561T	TESTAM2	04/29/11	19:44	mt	S	CONC
85	6431a20	41561T	TESTAM2	04/29/11	19:49	mt	S	CONC
86	64313a21	41561T	TESTAM2	04/29/11	19:55	mt	S	CONC
87	64313a22	41561T	TESTAM2	04/29/11	20:00	mt	S	CONC
88	64313a23	41561T	TESTAM2	04/29/11	20:06	mt	S	CONC
89	ccv	41561T	TESTAM2	04/29/11	20:11	mt	Q	CONC
90	ccb	41561T	TESTAM2	04/29/11	20:17	mt	B	CONC
91	64313a24	41561T	TESTAM2	04/29/11	20:22	mt	S	CONC
92	64313a25	41561T	TESTAM2	04/29/11	20:28	mt	S	CONC
93	64313a26	41561T	TESTAM2	04/29/11	20:33	mt	S	CONC
94	64313a27	41561T	TESTAM2	04/29/11	20:39	mt	S	CONC
95	64313a28	41561T	TESTAM2	04/29/11	20:44	mt	S	CONC
96	ccv	41561T	TESTAM2	04/29/11	20:50	mt	Q	CONC
97	ccb	41561T	TESTAM2	04/29/11	20:55	mt	B	CONC

Method: TESTAM2

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	callc00053	calb	2.66808	.000053	05/02/11 10:26:43
Al3082	308.215	callc00053	calb	20.7054	-.085079	05/02/11 10:26:43
As1890	189.042	callc00053	calb	3.42341	.001960	05/02/11 10:26:43
B_2496	249.678	callc00053	calb	1.52508	-.003429	05/02/11 10:26:43
Ba4934	493.409	callc00053	calb	.525925	-.000018	05/02/11 10:26:43
Be3130	313.042	callc00053	calb	.209379	-.000208	05/02/11 10:26:43
Bi2230	223.061	cal2c00058	calb	14.4746	.010256	05/02/11 10:26:43
Ca3179	317.933	callc00053	calb	14.3426	-.188022	05/02/11 10:26:43
Cd2265	226.502	callc00053	calb	.210248	-.000174	05/02/11 10:26:43
Co2286	228.616	callc00053	calb	3.36424	.000117	05/02/11 10:26:43
Cr2677	267.716	callc00053	calb	5.12248	-.004028	05/02/11 10:26:43
Cu3247	324.753	callc00053	calb	3.54283	-.023003	05/02/11 10:26:43
Fe2714	271.441	callc00053	calb	42.3922	-.013817	05/02/11 10:26:43
K_7664	766.491	callc00053	calb	19.5589	.064491	05/02/11 10:26:43
Mg2790	279.078	callc00053	calb	17.8352	-.001764	05/02/11 10:26:43
Mn2576	257.610	callc00053	calb	2.05728	-.000397	05/02/11 10:26:43
Mo2020	202.030	callc00053	calb	1.84237	-.001210	05/02/11 10:26:43
NA5889	588.995	callc00053	calb	1.95376	-.052567	05/02/11 10:26:43
NA3302	330.232	cal2c00058	calb	319.333	-.063419	05/02/11 10:26:43
Ni2316	231.604	callc00053	calb	1.21046	-.000473	05/02/11 10:26:43
2203/1	220.351	callc00053	calb	1.23483	.000122	05/02/11 10:26:43
2203/2	220.352	callc00053	calb	4.68005	-.000994	05/02/11 10:26:43
Pb2203	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
2068/1	206.831	callc00053	calb	4.82807	-.005741	05/02/11 10:26:43
2068/2	206.832	callc00053	calb	6.68115	.003409	05/02/11 10:26:43
1960/1	196.021	callc00053	calb	3.82858	.015291	05/02/11 10:26:43
1960/2	196.022	callc00053	calb	4.90918	-.009886	05/02/11 10:26:43
Si2881	288.158	cal2c00058	calb	74.3238	-.143342	05/02/11 10:26:43
Sn1899	189.989	cal2c00058	calb	3.22970	.002455	05/02/11 10:26:43
Sr4215	421.552	cal2c00058	calb	.161758	-.000066	05/02/11 10:26:43
Ti3349	334.941	cal2c00058	calb	.564607	-.000304	05/02/11 10:26:43
Tl1908	190.864	callc00053	calb	15.6739	.006995	05/02/11 10:26:43
V_2924	292.402	callc00053	calb	5.96695	-.000531	05/02/11 10:26:43
Zn2138	213.856	callc00053	calb	2.67426	-.013052	05/02/11 10:26:43
Li6707	670.784	cal2c00058	calb	.177377	-.000022	05/02/11 10:26:43
P_2149	214.914	cal2c00058	calb	6.29396	.025372	05/02/11 10:26:43

Method: TESTAM2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	calb callc00053	.000000 1.00000	.000000 1.00000	-.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	calb callc00053	.000000 10.0000	.000000 10.0000	-.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	calb callc00053	.000000 10.0000	.000000 10.0000	-.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	calb callc00053	.000000 2.00000	.000000 1.96973	-.000000 .030270
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	calb callc00053	.000000 1.00000	-.000000 1.00000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	calb callc00053	.000000 1.00000	-.000000 1.00000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi2230	223.061	calb cal2c00058	.000000 1.00000	-.000000 1.00000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	calb callc00053	.000000 50.0000	-.000000 50.0000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	calb callc00053	.000000 3.00000	-.000000 3.00047	.000000 -.000469
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	calb callc00053	.000000 1.00000	-.000000 .997754	.000000 .002246
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	calb callc00053	.000000 1.00000	-.000000 1.000000	.000000 .000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	calb callc00053	.000000 1.00000	.000000 1.00000	-.000000 .000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	calb callc00053	.000000 10.0000	.000000 10.0900	-.000000 -.089999
Element K_7664	766.491	calb callc00053	.000000 20.0000	.000000 20.0000	-.000000 .000000
Element Mg2790	279.078	calb callc00053	.000000 20.0000	-.000000 20.0000	.000000 .000000
Element Mn2576	257.610	calb callc00053	.000000 2.00000	.000000 2.00000	-.000000 .000000
Element Mo2020	202.030	calb callc00053	.000000 2.00000	-.000000 2.00000	.000000 .000000
Element NA5889	588.995	calb callc00053	.000000 10.0000	.000000 10.0000	-.000000 .000000
Element NA3302	330.232	calb cal2c00058	.000000 50.0000	-.000000 50.0000	.000000 .000000
Element Ni2316	231.604	calb callc00053	.000000 1.00000	-.000000 1.00000	.000000 .000000
Element 2203/1	220.351	calb callc00053	.000000 10.0000	-.000000 10.0058	.000000 -.005845
Element 2203/2	220.352	calb callc00053	.000000 10.0000	.000000 9.99589	-.000000 .004111
Element Pb2203	220.353	NONE NONE	.000000 .000000	.000000 .000000	.000000 .000000
Element Se1960	196.026	NONE NONE	.000000 .000000	.000000 .000000	.000000 .000000
Element Sb2068	206.838	NONE NONE	.000000 .000000	.000000 .000000	.000000 .000000

Element 2068/1	Wavelength 206.831	Standard calb cal1c00053	Concentration .000000 4.00000	Concentration .000000 3.98248	Concentration -.000000 .017517
Element 2068/2	Wavelength 206.832	Standard calb cal1c00053	Known Concentration .000000 4.00000	Measured Concentration .000000 3.99077	Residual Concentration -.000000 .009233
Element 1960/1	Wavelength 196.021	Standard calb cal1c00053	Known Concentration .000000 4.00000	Measured Concentration -.000000 4.00159	Residual Concentration .000000 -.001590
Element 1960/2	Wavelength 196.022	Standard calb cal1c00053	Known Concentration .000000 4.00000	Measured Concentration .000000 4.00095	Residual Concentration -.000000 -.000946
Element Si2881	Wavelength 288.158	Standard calb cal2c00058	Known Concentration .000000 10.0000	Measured Concentration .000000 10.0079	Residual Concentration -.000000 -.007902
Element Sn1899	Wavelength 189.989	Standard calb cal2c00058	Known Concentration .000000 1.00000	Measured Concentration -.000000 1.00000	Residual Concentration .000000 .000000
Element Sr4215	Wavelength 421.552	Standard calb cal2c00058	Known Concentration .000000 1.00000	Measured Concentration -.000000 1.000000	Residual Concentration .000000 .000000
Element Ti3349	Wavelength 334.941	Standard calb cal2c00058	Known Concentration .000000 1.00000	Measured Concentration .000000 1.00000	Residual Concentration -.000000 .000000
Element Tl1908	Wavelength 190.864	Standard calb cal1c00053	Known Concentration .000000 4.00000	Measured Concentration -.000000 4.00820	Residual Concentration .000000 -.008203
Element V_2924	Wavelength 292.402	Standard calb cal1c00053	Known Concentration .000000 1.00000	Measured Concentration .000000 .995670	Residual Concentration -.000000 .004330
Element Zn2138	Wavelength 213.856	Standard calb cal1c00053	Known Concentration .000000 3.00000	Measured Concentration -.000000 3.00274	Residual Concentration .000000 -.002738
Element Li6707	Wavelength 670.784	Standard calb cal2c00058	Known Concentration .000000 1.00000	Measured Concentration .000000 1.00000	Residual Concentration -.000000 .000000
Element P_2149	Wavelength 214.914	Standard calb cal2c00058	Known Concentration .000000 10.0000	Measured Concentration .000000 10.0000	Residual Concentration -.000000 .000000

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	calb	41561T	TESTAM2	05/02/11	10:16		X	IR
2	callc00053	41561T	TESTAM2	05/02/11	10:21		X	IR
3	cal2c00058	41561T	TESTAM2	05/02/11	10:26		X	IR
4	icv 675717	41561T	TESTAM2	05/02/11	10:33	bjh	Q	CONC
5	icb	41561T	TESTAM2	05/02/11	10:40	bjh	B	CONC
6	icsab 668482	41561T	TESTAM2	05/02/11	10:47	bjh	Q	CONC
7	693311 @2	41561T	TESTAM2	05/02/11	11:28	mt	S	CONC
8	693312 @2	41561T	TESTAM2	05/02/11	11:34	mt	S	CONC
9	64418a1a @2	41561T	TESTAM2	05/02/11	11:40	mt	S	CONC
10	64418a1b ms @2	41561T	TESTAM2	05/02/11	11:46	mt	S	CONC
11	64418a1c msd @2	41561T	TESTAM2	05/02/11	11:52	mt	S	CONC
12	64418a1a sd @10	41561T	TESTAM2	05/02/11	11:58	mt	S	CONC
13	64403a1a @500	41561T	TESTAM2	05/02/11	12:04	mt	S	CONC
14	ccv	41561T	TESTAM2	05/02/11	12:10	mt	Q	CONC
15	ccb	41561T	TESTAM2	05/02/11	12:16	mt	B	CONC
16	64403a1a @100	41561T	TESTAM2	05/02/11	12:22	mt	S	CONC
17	ccv	41561T	TESTAM2	05/02/11	12:28	mt	Q	CONC
18	ccb	41561T	TESTAM2	05/02/11	12:34	mt	B	CONC
19	64403a1a @50	41561T	TESTAM2	05/02/11	12:40	mt	S	CONC
20	ccv	41561T	TESTAM2	05/02/11	12:46	mt	Q	CONC
21	ccb	41561T	TESTAM2	05/02/11	12:52	mt	B	CONC
22	685904 @2	41561T	TESTAM2	05/02/11	13:05	mt	S	CONC
23	685905 @2	41561T	TESTAM2	05/02/11	13:11	mt	S	CONC
24	63686a54a @2	41561T	TESTAM2	05/02/11	13:16	mt	S	CONC
25	63654a54b ms @2	41561T	TESTAM2	05/02/11	13:22	mt	S	CONC
26	63654a54c msd @2	41561T	TESTAM2	05/02/11	13:27	mt	S	CONC
27	63654a54a sd @10	41561T	TESTAM2	05/02/11	13:33	mt	S	CONC
28	63819a1a @2	41561T	TESTAM2	05/02/11	13:38	mt	S	CONC
29	ccv	41561T	TESTAM2	05/02/11	13:44	mt	Q	CONC
30	ccb	41561T	TESTAM2	05/02/11	13:49	mt	B	CONC

Method: TESTAM2 Sample Name: icb
 Run Time: 05/02/11 10:40:14
 Comment: 200.7/6010b
 Mode: CONC Corr. Factor: 1

Operator: bjh

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	-.01239	.00080	.00082	.00013	.00005	-.00043
SDev	.00015	.00095	.00086	.00015	.00014	.00005	.00185
%RSD	143.07	7.6810	107.00	18.242	103.51	100.77	428.30
#1	.00021	-.01306	.00019	.00093	.00004	.00001	-.00174
#2	-.00000	-.01172	.00141	.00072	.00023	.00008	.00088
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00294	-.00007	-.00023	-.00369	-.00037	-.00243	.00790
SDev	.00037	.00002	.00007	.00026	.00021	.00029	.00331
%RSD	12.620	33.072	31.580	6.9579	56.666	11.798	41.888
#1	.00267	-.00008	-.00018	-.00387	-.00022	-.00223	.00556
#2	.00320	-.00005	-.00029	-.00351	-.00052	-.00263	.01024
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00122	-.00000	.00721	-.0032	-.0247	-.00049	.00496
SDev	.00408	.00009	.00040	.0006	.0822	.00004	.00151
%RSD	334.46	6210.3	5.5692	17.71	333.0	8.8101	30.537
#1	-.00411	-.00006	.00749	-.0036	.0334	-.00052	.00389
#2	.00167	.00006	.00692	-.0028	-.0828	-.00046	.00603
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00074	.00116	-.00005	.00513	-.00129	.00834	.00290
SDev	.00023	.00035	.00023	.00027	.00374	.00147	.00777
%RSD	31.634	30.071	497.44	5.1880	289.66	17.637	267.90
#1	-.00057	.00091	-.00021	.00532	.00135	.00730	-.00259
#2	-.00090	.00141	.00012	.00494	-.00394	.00938	.00839
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00152	-.01138	.00123	.00006	.00045	-.00387	-.00025
SDev	.00354	.00277	.00086	.00008	.00028	.00257	.00039
%RSD	233.06	24.346	69.638	144.00	62.999	66.446	157.18
#1	.00098	-.01334	.00183	-.00000	.00025	-.00568	.00003
#2	-.00402	-.00942	.00062	.00011	.00065	-.00205	-.00052
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	-.00485	.0000	.0026				
SDev	.00020	.0001	.0013				
%RSD	4.0859	104.3	49.71				
#1	-.00499	.0000	.0035				
#2	-.00471	.0001	.0017				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	98844	--	--	--	--	--	--
SDev	85.55992	--	--	--	--	--	--
%RSD	.0865610	--	--	--	--	--	--
#1	98904	--	--	--	--	--	--
#2	98783	--	--	--	--	--	--

Method: TESTAM2 Sample Name: icsab 668482 Operator: bjh
 Run Time: 05/02/11 10:47:14
 Comment: 200.7/6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.0779	251.64	.00154	.05116	.52969	.52345	-.00656
SDev	.0008	.70	.00148	.00397	.00064	.00058	.00131
%RSD	.07671	.27836	96.631	7.7673	.12124	.11087	20.015
#1	1.0785	252.14	.00259	.05397	.53014	.52386	-.00749
#2	1.0774	251.15	.00049	.04835	.52923	.52304	-.00563
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value	1.0000	250.00			.50000	.50000	
Range	20.000	20.000			20.000	20.000	
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	248.01	1.0220	.49334	.50068	.51589	95.873	.01778
SDev	.35	.0012	.00078	.00127	.00132	.167	.01639
%RSD	.13949	.11747	.15817	.25365	.25655	.17393	92.170
#1	248.25	1.0228	.49279	.50158	.51683	95.991	.02937
#2	247.76	1.0211	.49389	.49978	.51495	95.755	.00619
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	250.00	1.0000	.50000	.50000	.50000	100.00	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	261.51	.51245	.00035	.0151	.1667	.99061	1.0079
SDev	.35	.00048	.00125	.0008	.1893	.00043	.0003
%RSD	.13425	.09404	360.71	5.208	113.6	.04348	.02481
#1	261.76	.51279	.00123	.0156	.3006	.99091	1.0081
#2	261.27	.51211	-.00054	.0145	.0328	.99031	1.0077
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	250.00	.50000				1.0000	
Range	20.000	20.000				20.000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.0437	1.0318	-.01370	.00033	-.00346	.00222	.00241
SDev	.0036	.0023	.00224	.00139	.00382	.00400	.00792
%RSD	.34442	.22419	16.330	425.77	110.28	180.00	328.87
#1	1.0412	1.0302	-.01528	.00131	-.00616	.00505	-.00319
#2	1.0463	1.0334	-.01211	-.00066	-.00076	-.00061	.00800
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value		1.0000					
Range		20.000					
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.02175	-.01494	.00058	.00319	-.01091	-.00286	.51031
SDev	.00060	.00502	.00030	.00002	.00021	.00215	.00138
%RSD	2.7727	33.625	51.109	52.065	1.9378	75.010	.27106

#1	-.02132	-.01139	.00079	.00320	-.01076	-.00134	.51128
#2	-.02217	-.01849	.00037	.00317	-.01106	-.00438	.50933
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass .50000 20.000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	1.1144	.0001	-.2813				
SDev	.0010	.0000	.0050				
%RSD	.09223	1.274	1.790				
#1	1.1137	.0001	-.2778				
#2	1.1151	.0001	-.2849				
Errors Value Range	QC Pass 1.0000 20.000	NOCHECK	NOCHECK				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	92964	--	--	--	--	--	--
SDev	45.96194	--	--	--	--	--	--
%RSD	.0494409	--	--	--	--	--	--
#1	92996	--	--	--	--	--	--
#2	92931	--	--	--	--	--	--

Method: TESTAM2 Sample Name: ccv Operator: mt
 Run Time: 05/02/11 15:23:12
 Comment: 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.1003	2.0028	2.1229	2.0293	1.9351	2.0077	Q-.00504
SDev	.0023	.0018	.0001	.0035	.0042	.0032	.00627
%RSD	.10980	.08939	.00436	.17159	.21515	.15737	124.30

#1	2.1019	2.0015	2.1228	2.0317	1.9381	2.0100	Q-.00061
#2	2.0987	2.0041	2.1230	2.0268	1.9322	2.0055	Q-.00948

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.1308	2.1642	2.1358	2.0235	1.9570	2.0942	19.073
SDev	.0001	.0011	.0009	.0025	.0042	.0044	.002
%RSD	.00436	.04911	.04138	.12231	.21568	.21037	.01256

#1	2.1309	2.1650	2.1364	2.0253	1.9600	2.0973	19.075
#2	2.1308	2.1635	2.1352	2.0218	1.9540	2.0911	19.071

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	20.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0768	2.1525	2.1728	Q18.84	21.88	2.1551	2.1285
SDev	.0021	.0020	.0342	.02	.16	.0010	.0113
%RSD	.09957	.09072	1.5717	.0971	.7512	.04546	.53265

#1	2.0753	2.1539	2.1487	Q18.83	21.76	2.1544	2.1205
#2	2.0782	2.1511	2.1970	Q18.85	22.00	2.1558	2.1365

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	2.0000	2.0000	22.00	22.00	2.0000	
Range	10.000	10.000	10.000	10.00	10.00	10.000	

Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.1144	2.1191	2.1138	Q2.4621	2.5112	2.4376	2.0958
SDev	.0069	.0008	.0071	.1020	.1771	.0644	.0153
%RSD	.32813	.03994	.33508	4.1426	7.0525	2.6437	.73084

#1	2.1193	2.1197	2.1087	Q2.3900	2.3860	2.3920	2.0850
#2	2.1095	2.1185	2.1188	Q2.5343	2.6364	2.4832	2.1067

Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK
Value		2.0000	2.0000	2.0000			
Range		10.000	10.000	10.000			

Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.1227	11.334	2.1551	2.0193	2.0486	2.0992	2.0013
SDev	.0030	.017	.0004	.0043	.0018	.0068	.0036
%RSD	.13970	.15220	.01843	2.1267	.08549	.32192	.17864

#1	2.1206	11.346	2.1548	2.0223	2.0498	2.1040	2.0038
#2	2.1248	11.322	2.1554	2.0163	2.0473	2.0944	1.9988
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		11.000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		10.000	10.000	10.000	10.000	10.000	10.000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	2.1155	1.958	2.161				
SDev	.0015	.002	.008				
%RSD	.07131	.1041	.3901				
#1	2.1166	1.957	2.167				
#2	2.1145	1.959	2.155				
Errors	QC Pass	QC Pass	QC Pass				
Value	2.0000	2.000	2.000				
Range	10.000	10.00	10.00				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	96000	--	--	--	--	--	--
SDev	135.0574	--	--	--	--	--	--
%RSD	.1406841	--	--	--	--	--	--
#1	95905	--	--	--	--	--	--
#2	96096	--	--	--	--	--	--

Method: TESTAM2 Sample Name: ccb

Operator: mt

Run Time: 05/02/11 15:28:20

Comment:

6010b

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00020	-.04319	.00524	.00064	.00010	.00008	-.00628
SDev	.00014	.00193	.00269	.00001	.00010	.00001	.00462
%RSD	66.737	4.4588	51.426	.73849	98.559	15.812	73.586

#1	.00030	-.04456	.00714	.00065	.00017	.00009	-.00301
#2	.00011	-.04183	.00333	.00064	.00003	.00007	-.00955

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01763	-.00010	-.00039	-.00405	-.00267	.00193	-.00306
SDev	.00070	.00002	.00074	.00048	.00025	.00684	.00493
%RSD	3.9642	14.967	189.16	11.957	9.3071	355.21	161.01

#1	-.01812	-.00009	.00013	-.00440	-.00249	-.00291	.00042
#2	-.01713	-.00012	-.00091	-.00371	-.00284	.00677	-.00655

Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00020	.00026	.01220	.0182	.0319	-.00013	.00472
SDev	.00403	.00003	.00336	.0004	.0092	.00054	.00244
%RSD	1996.5	11.738	27.568	2.426	28.90	413.64	51.667

#1	.00265	.00028	.01458	.0185	.0254	.00025	.00300
#2	-.00305	.00024	.00982	.0179	.0384	-.00051	.00645

Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00091	.00096	.00155	.01621	.01508	.01677	.00658
SDev	.00157	.00023	.00008	.00654	.00671	.00646	.00357
%RSD	171.22	23.943	4.9051	40.359	44.524	38.487	54.333

#1	.00019	.00113	.00160	.02084	.01983	.02134	.00405
#2	-.00202	.00080	.00150	.01158	.01033	.01221	.00911

Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00097	-.01518	.00131	.00002	.00073	-.00317	-.00072
SDev	.00190	.00064	.00016	.00005	.00010	.00685	.00048
%RSD	196.96	4.2336	12.514	202.93	14.238	215.88	67.092

#1	.00038	-.01473	.00142	.00006	.00080	-.00802	-.00038
#2	-.00231	-.01564	.00119	-.00001	.00065	.00167	-.00106

Elem	Zn2138	Li6707	P_2149
Units	ppm	ppm	ppm
Avgc	-.00859	.0003	.0050
SDev	.00043	.0000	.0032
%RSD	5.0093	7.680	63.46

#1	-.00829	.0003	.0073
#2	-.00890	.0003	.0028

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	97136	--	--	--	--	--	--
SDev	77.78175	--	--	--	--	--	--
%RSD	.0800751	--	--	--	--	--	--
#1	97081	--	--	--	--	--	--
#2	97191	--	--	--	--	--	--

Analysis Report

05/02/11 04:19:29 PM

Method: TESTAM2 Sample Name: 694659 Operator: mt
 Run Time: 05/02/11 16:14:26
 Comment: 0427-3 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00049	-.03812	-.00032	-.00080	.00047	.00004	-.00628
SDev	.00062	.00468	.00100	.00010	.00003	.00001	.00259
%RSD	126.19	12.287	311.62	12.021	6.1038	18.586	41.225
#1	.00005	-.03481	.00039	-.00074	.00049	.00005	-.00811
#2	.00093	-.04143	-.00103	-.00087	.00045	.00004	-.00445
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	500.00	100.00	50.000	10.000	2.0000	10.000
Low	-.04000	-.50000	-.03000	-.05000	-.01000	-.00500	-.05000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.06516	.00007	.00029	-.00352	-.00263	.01349	.02794
SDev	.00023	.00022	.00003	.00016	.00015	.00003	.00299
%RSD	.35139	320.09	9.4133	4.4809	5.5377	.20109	10.704
#1	.06532	.00023	.00027	-.00364	-.00274	.01351	.03005
#2	.06499	-.00009	.00030	-.00341	-.00253	.01348	.02582
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	5.0000	100.00	100.00	50.000	500.00	200.00
Low	-1.0000	-.01000	-.02000	-.01000	-.05000	-.50000	-1.0000
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00506	.00128	.00239	.0327	.1023	-.00121	.00745
SDev	.00221	.00008	.00077	.0009	.1850	.00004	.00054
%RSD	43.709	6.1009	31.978	2.918	180.8	3.0278	7.2472
#1	.00662	.00122	.00185	.0333	-.0285	-.00119	.00707
#2	.00350	.00133	.00294	.0320	.2331	-.00124	.00783
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	300.00	50.000	10.000	50.00	100.0	10.000	
Low	-.50000	-.02000	-.02000	-1.500	-1.500	-.01000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00375	-.00001	.00005	-.00000	-.01157	.00578	-.00547
SDev	.00257	.00153	.00137	.00124	.00256	.00058	.00286
%RSD	68.554	12099.	2970.4	29519.	22.125	9.9888	52.299
#1	-.00193	.00107	-.00093	-.00088	-.01338	.00537	-.00749
#2	-.00556	-.00110	.00102	.00087	-.00976	.00618	-.00345
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00	100.00	2.0000			
Low		-.05000	-.02000	-.15000			
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00280	-.00890	.00226	.00023	.00010	-.00209	-.00056
SDev	.00063	.00184	.00142	.00002	.00005	.00023	.00106
%RSD	22.600	20.735	62.964	57.078	51.182	11.213	190.03

#1	.00236	-.00759	.00125	.00024	.00014	-.00192	-.00131
#2	.00325	-.01020	.00327	.00022	.00007	-.00226	.00019
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		50.000	50.000	2.0000	10.000	100.00	100.00
Low		-.15000	-.05000	-.02500	-.05000	-.09000	-.02000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	.00184	.0002	.0314				
SDev	.00034	.0000	.0053				
%RSD	18.334	15.04	16.77				
#1	.00160	.0002	.0351				
#2	.00208	.0002	.0276				
Errors	LC Pass	LC Pass	LC Pass				
High	10.000	2.000	100.0				
Low	-.05000	-.0150	-.5000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	91490	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.0904263	--	--	--	--	--	--
#1	91432	--	--	--	--	--	--
#2	91549	--	--	--	--	--	--

Analysis Report

05/02/11 04:24:36 PM

Method: TESTAM2 Sample Name: 694660 Operator: mt
 Run Time: 05/02/11 16:19:33
 Comment: 0427-3 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0449	.98349	.55456	1.0360	1.0277	.53020	-.00429
SDev	.0058	.00399	.00615	.0049	.0051	.00240	.00285
%RSD	.55138	.40576	1.1081	.46831	.49675	.45240	66.396

#1	1.0409	.98066	.55021	1.0326	1.0241	.52850	-.00631
#2	1.0490	.98631	.55890	1.0394	1.0313	.53189	-.00228

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	500.00	100.00	50.000	10.000	2.0000	10.000
Low	-.04000	-.50000	-.03000	-.05000	-.01000	-.00500	-.05000

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.63745	.58566	.57639	.53749	.52106	.56416	7.8171
SDev	.00222	.00172	.00327	.00199	.00230	.00988	.0304
%RSD	.34851	.29293	.56750	.36961	.44223	1.7504	.38848

#1	.63587	.58445	.57408	.53608	.51943	.57115	7.7956
#2	.63902	.58688	.57870	.53889	.52269	.55718	7.8386

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	5.0000	100.00	100.00	50.000	500.00	200.00
Low	-1.0000	-.01000	-.02000	-.01000	-.05000	-.50000	-1.0000

Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55533	.58287	.58001	.8980	1.041	.57870	.57481
SDev	.00032	.00262	.01288	.0063	.008	.00341	.00274
%RSD	.05721	.45006	2.2208	.7061	.7572	.58963	.47637

#1	.55511	.58101	.57090	.8935	1.047	.57628	.57287
#2	.55556	.58472	.58912	.9025	1.036	.58111	.57674

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	300.00	50.000	10.000	50.00	100.0	10.000	
Low	-.50000	-.02000	-.02000	-1.500	-1.500	-.01000	

Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.56630	.56914	.53542	.67648	.70655	.66145	.53131
SDev	.00359	.00331	.00751	.00111	.00064	.00135	.00711
%RSD	.63404	.58096	1.4026	.16475	.09038	.20446	1.3384

#1	.56376	.56680	.53011	.67570	.70610	.66049	.52628
#2	.56884	.57148	.54073	.67727	.70700	.66241	.53634

Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00	100.00	2.0000			
Low		-.05000	-.02000	-.15000			

Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53747	.51477	.56933	.54480	.54892	.54558	.52987
SDev	.00771	.00782	.00106	.00243	.00283	.00096	.00405
%RSD	1.4343	1.5190	.18684	.44611	.51572	.17601	.76447

#1	.53202	.50924	.56857	.54309	.54692	.54490	.52701
#2	.54292	.52030	.57008	.54652	.55092	.54626	.53274
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		50.000	50.000	2.0000	10.000	100.00	100.00
Low		-.15000	-.05000	-.02500	-.05000	-.09000	-.02000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	.56795	.4705	.6288				
SDev	.00294	.0024	.0052				
%RSD	.51768	.5133	.8195				
#1	.56587	.4688	.6325				
#2	.57003	.4722	.6252				
Errors	LC Pass	LC Pass	LC Pass				
High	10.000	2.000	100.0				
Low	-.05000	-.0150	-.5000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	91498	--	--	--	--	--	--
SDev	369.1097	--	--	--	--	--	--
%RSD	.4034075	--	--	--	--	--	--
#1	91759	--	--	--	--	--	--
#2	91237	--	--	--	--	--	--

Method: TESTAM2 Sample Name: ccv Operator: mt
 Run Time: 05/02/11 16:37:56
 Comment: 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0946	1.9456	2.0675	1.9839	1.8906	1.9468	Q-.01002
SDev	.0002	.0092	.0139	.0068	.0053	.0081	.00552
%RSD	.00805	.47152	.67037	.34278	.28279	.41697	55.125

#1	2.0947	1.9391	2.0577	1.9791	1.8944	1.9410	Q-.01393
#2	2.0944	1.9520	2.0773	1.9887	1.8868	1.9525	Q-.00611

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0635	2.1071	2.0826	1.9671	1.9075	2.0094	18.733
SDev	.0108	.0117	.0036	.0052	.0024	.0217	.026
%RSD	.52368	.55412	.17192	.26642	.12609	1.0794	.14133

#1	2.0559	2.0988	2.0801	1.9634	1.9092	1.9941	18.714
#2	2.0711	2.1153	2.0851	1.9708	1.9058	2.0247	18.751

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	20.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0093	2.0969	2.1300	Q18.76	21.17	2.0974	2.0922
SDev	.0138	.0040	.0354	.04	.11	.0070	.0133
%RSD	.68520	.19265	1.6628	.1911	.4965	.33582	.63393

#1	1.9995	2.0941	2.1050	Q18.78	21.10	2.0924	2.1016
#2	2.0190	2.0998	2.1551	Q18.73	21.25	2.1024	2.0828

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	2.0000	2.0000	22.00	22.00	2.0000	
Range	10.000	10.000	10.000	10.00	10.00	10.000	

Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0713	2.0783	2.0748	Q2.4375	2.4871	2.4128	2.0542
SDev	.0068	.0001	.0005	.0975	.1709	.0609	.0085
%RSD	.33024	.00670	.02463	4.0011	6.8710	2.5221	.41370

#1	2.0665	2.0782	2.0751	Q2.3686	2.3662	2.3698	2.0602
#2	2.0762	2.0784	2.0744	Q2.5065	2.6079	2.4558	2.0482

Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK
Value		2.0000	2.0000	2.0000			
Range		10.000	10.000	10.000			

Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0851	11.080	2.0983	1.9741	1.9985	2.0477	1.9428
SDev	.0035	.022	.0020	.0051	.0016	.0194	.0035
%RSD	.16703	.19668	.09558	0.25848	.08058	.94738	.18212

#1	2.0826	11.064	2.0969	1.9777	1.9974	2.0340	1.9403
#2	2.0875	11.095	2.0997	1.9704	1.9997	2.0614	1.9453
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		11.000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		10.000	10.000	10.000	10.000	10.000	10.000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	2.0634	1.928	2.096				
SDev	.0052	.003	.004				
%RSD	.25377	.1296	.1993				
#1	2.0597	1.930	2.093				
#2	2.0671	1.926	2.099				
Errors	QC Pass	QC Pass	QC Pass				
Value	2.0000	2.000	2.000				
Range	10.000	10.00	10.00				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	97855	--	--	--	--	--	--
SDev	408.7077	--	--	--	--	--	--
%RSD	.4176667	--	--	--	--	--	--
#1	97566	--	--	--	--	--	--
#2	98144	--	--	--	--	--	--

Method: TESTAM2 Sample Name: ccb Operator: mt
 Run Time: 05/02/11 16:43:03
 Comment: 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00082	-.04382	.00200	.00078	.00018	.00022	.00104
SDev	.00074	.00292	.00050	.00059	.00021	.00013	.00760
%RSD	90.069	6.6677	24.857	75.323	117.46	60.821	731.00
#1	.00134	-.04589	.00235	.00120	.00003	.00013	-.00434
#2	.00030	-.04176	.00165	.00037	.00033	.00032	.00642
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01682	.00011	-.00056	-.00327	-.00246	.00686	.01099
SDev	.00030	.00029	.00170	.00034	.00081	.00311	.00112
%RSD	1.7799	253.24	302.30	10.357	32.961	45.370	10.203
#1	-.01703	-.00009	-.00177	-.00303	-.00303	.00466	.01178
#2	-.01660	.00032	.00064	-.00351	-.00189	.00906	.01019
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00269	.00045	.01287	.0070	.0796	-.00090	.00739
SDev	.00466	.00001	.00454	.0021	.2345	.00035	.01108
%RSD	173.09	1.0459	35.257	30.06	294.7	39.431	149.95
#1	-.00598	.00045	.01607	.0055	.2454	-.00115	.01523
#2	.00060	.00044	.00966	.0085	-.0862	-.00065	-.00045
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00450	-.00054	.00147	.02422	.01740	.02762	.00868
SDev	.00480	.00049	.00095	.00722	.00536	.01351	.01308
%RSD	106.65	91.631	64.596	29.820	30.805	48.921	150.78
#1	-.00790	-.00019	.00215	.02932	.01361	.03718	.01793
#2	-.00111	-.00089	.00080	.01911	.02120	.01807	-.00057
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00213	-.01846	.00111	.00019	.00057	-.00137	-.00109
SDev	.00511	.00254	.00031	.00016	.00017	.00300	.00116
%RSD	240.24	13.751	27.981	83.884	29.055	219.41	106.49
#1	-.00575	-.02025	.00089	.00008	.00046	-.00349	-.00191
#2	.00149	-.01667	.00133	.00031	.00069	.00075	-.00027
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	-.00887	.0003	-.0056				
SDev	.00011	.0001	.0083				
%RSD	1.2572	43.97	147.9				
#1	-.00895	.0002	-.0115				
#2	-.00879	.0004	.0003				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	97596	--	--	--	--	--	--
SDev	540.2296	--	--	--	--	--	--
%RSD	.5535366	--	--	--	--	--	--
#1	97214	--	--	--	--	--	--
#2	97978	--	--	--	--	--	--

Method: TESTAM2 Sample Name: 694661 @10 Operator: mt
 Run Time: 05/02/11 16:48:10
 Comment: 0427-3 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00054	-.06514	-.00025	-.00048	.00287	.00007	.00203
SDev	.00007	.00083	.00190	.00008	.00026	.00010	.00494
%RSD	12.909	1.2785	758.73	16.249	9.2381	146.31	243.09
#1	.00059	-.06455	-.00159	-.00043	.00306	-.00000	-.00146
#2	.00049	-.06573	.00109	-.00054	.00268	.00014	.00553
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	500.00	100.00	50.000	10.000	2.0000	10.000
Low	-.04000	-.50000	-.03000	-.05000	-.01000	-.00500	-.05000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.17320	-.00000	.00145	-.00366	-.00551	-.00163	.01863
SDev	.02495	.00006	.00006	.00000	.00010	.00814	.02169
%RSD	14.407	2997.2	4.3227	.01773	1.7921	499.43	116.44
#1	.19084	.00004	.00140	-.00366	-.00544	-.00739	.00329
#2	.15555	-.00004	.00149	-.00366	-.00558	.00413	.03397
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	5.0000	100.00	100.00	50.000	500.00	200.00
Low	-1.0000	-.01000	-.02000	-.01000	-.05000	-.50000	-1.0000
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00836	.00190	.00197	S140.2	H158.7	-.00059	.00276
SDev	.00059	.00007	.00063	.1	27.8	.00001	.00114
%RSD	7.0604	3.9589	32.165	.0668	17.53	1.3557	41.211
#1	.00878	.00185	.00152	S140.3	H178.3	-.00059	.00196
#2	.00795	.00196	.00242	S140.2	H139.0	-.00058	.00357
Errors	LC Pass	LC Pass	LC Pass	LC High	LC High	LC Pass	NOCHECK
High	300.00	50.000	10.000	50.00	100.0	10.000	
Low	-.50000	-.02000	-.02000	-1.500	-1.500	-.01000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00289	-.00101	.00125	-.00014	-.00941	.00449	.00809
SDev	.00012	.00030	.00168	.00374	.00120	.00501	.00161
%RSD	4.0581	29.906	134.89	2656.7	12.708	111.59	19.909
#1	-.00281	-.00122	.00006	.00250	-.00856	.00804	.00923
#2	-.00297	-.00079	.00244	-.00279	-.01025	.00095	.00695
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00	100.00	2.0000			
Low		-.05000	-.02000	-.15000			
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00217	-.04037	.00282	.00039	.00006	.00171	-.00053
SDev	.00333	.00066	.00077	.00003	.00025	.00464	.00000
%RSD	153.14	1.6317	27.191	67.2182	390.80	270.74	.06834

#1	-.00453	-.03990	.00228	.00037	-.00011	-.00157	-.00053
#2	.00018	-.04084	.00336	.00041	.00024	.00500	-.00053
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		50.000	50.000	2.0000	10.000	100.00	100.00
Low		-.15000	-.05000	-.02500	-.05000	-.09000	-.02000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	-.00885	.0003	.0080				
SDev	.00018	.0001	.0033				
%RSD	2.0247	29.55	41.10				
#1	-.00872	.0002	.0103				
#2	-.00897	.0004	.0057				
Errors	LC Pass	LC Pass	LC Pass				
High	10.000	2.000	100.0				
Low	-.05000	-.0150	-.5000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	110072	--	--	--	--	--	--
SDev	191.6259	--	--	--	--	--	--
%RSD	.1740907	--	--	--	--	--	--
#1	109937	--	--	--	--	--	--
#2	110208	--	--	--	--	--	--

Analysis Report

05/02/11 04:58:20 PM

Method: TESTAM2 Sample Name: 63445j3e @10 Operator: mt
 Run Time: 05/02/11 16:53:16
 Comment: 0427-3 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00034	-.05916	.00309	.00399	.06503	.00005	.00488
SDev	.00029	.00197	.00127	.00250	.01134	.00005	.00304
%RSD	86.945	3.3248	41.085	62.742	17.440	92.397	62.292
#1	.00054	-.05777	.00398	.00576	.07305	.00002	.00703
#2	.00013	-.06056	.00219	.00222	.05701	.00008	.00273
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	500.00	100.00	50.000	10.000	2.0000	10.000
Low	-.04000	-.50000	-.03000	-.05000	-.01000	-.00500	-.05000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.114	.00128	.00028	-.00390	-.00475	-.00563	.41456
SDev	6.157	.00024	.00023	.00018	.00062	.00875	.10062
%RSD	17.535	18.942	80.557	4.4986	13.096	155.46	24.272
#1	39.468	.00145	.00012	-.00378	-.00431	.00056	.48571
#2	30.761	.00111	.00044	-.00403	-.00520	-.01182	.34341
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	5.0000	100.00	100.00	50.000	500.00	200.00
Low	-1.0000	-.01000	-.02000	-.01000	-.05000	-.50000	-1.0000
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4547	.03483	.00082	S149.3	H161.0	.00089	.02262
SDev	.2649	.00584	.00067	.6	32.1	.00020	.00201
%RSD	18.212	16.762	80.930	.3950	19.94	22.125	8.8765
#1	1.6420	.03896	.00129	S149.7	H183.7	.00103	.02404
#2	1.2674	.03070	.00035	S148.8	H138.3	.00075	.02120
Errors	LC Pass	LC Pass	LC Pass	LC High	LC High	LC Pass	NOCHECK
High	300.00	50.000	10.000	50.00	100.0	10.000	
Low	-.50000	-.02000	-.02000	-1.500	-1.500	-.01000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01740	.01914	.00187	-.00036	-.00833	.00362	.01309
SDev	.00553	.00436	.00134	.00078	.00649	.00442	.00381
%RSD	31.768	22.750	71.590	215.63	77.906	122.15	29.095
#1	.02131	.02222	.00092	-.00092	-.00374	.00049	.01040
#2	.01349	.01606	.00282	.00019	-.01292	.00675	.01578
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00	100.00	2.0000			
Low		-.05000	-.02000	-.15000			
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00374	.28195	.00259	.04687	-.00128	-.00050	-.00058
SDev	.00011	.05187	.00068	.00827	.00008	.00060	.00016
%RSD	2.8496	18.396	26.358	18.7632	6.3994	120.32	27.766

#1	-.00381	.31863	.00211	.05273	-.00134	-.00092	-.00070
#2	-.00366	.24527	.00308	.04102	-.00122	-.00007	-.00047
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		50.000	50.000	2.0000	10.000	100.00	100.00
Low		-.15000	-.05000	-.02500	-.05000	-.09000	-.02000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	.31803	.0011	.0542				
SDev	.05879	.0001	.0112				
%RSD	18.486	14.22	20.59				
#1	.35960	.0012	.0621				
#2	.27646	.0010	.0463				
Errors	LC Pass	LC Pass	LC Pass				
High	10.000	2.000	100.0				
Low	-.05000	-.0150	-.5000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	103492	--	--	--	--	--	--
SDev	511.2382	--	--	--	--	--	--
%RSD	.4939905	--	--	--	--	--	--
#1	103130	--	--	--	--	--	--
#2	103853	--	--	--	--	--	--

Analysis Report

05/02/11 05:03:26 PM

Method: TESTAM2 Sample Name: 63445j3f ms @10 Operator: mt
 Run Time: 05/02/11 16:58:23
 Comment: 0427-3 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.28926	-.05878	.39605	.00396	3.2291	.00004	.00028
SDev	.02047	.00462	.03023	.00095	.2518	.00001	.00690
%RSD	7.0781	7.8622	7.6330	24.106	7.7969	36.886	2484.5
#1	.30374	-.05552	.41743	.00463	3.4071	.00005	.00516
#2	.27479	-.06205	.37468	.00328	3.0510	.00003	-.00460
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	500.00	100.00	50.000	10.000	2.0000	10.000
Low	-.04000	-.50000	-.03000	-.05000	-.01000	-.00500	-.05000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	35.401	.10315	.00057	.36727	-.00509	.00086	.40712
SDev	2.874	.00830	.00009	.03000	.00033	.01455	.07335
%RSD	8.1183	8.0473	15.690	8.1676	6.4321	1698.1	18.017
#1	37.433	.10902	.00063	.38848	-.00486	.01114	.45899
#2	33.369	.09728	.00051	.34606	-.00532	-.00943	.35526
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	5.0000	100.00	100.00	50.000	500.00	200.00
Low	-1.0000	-.01000	-.02000	-.01000	-.05000	-.50000	-1.0000
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.4714	.03530	.00103	S146.8	H160.9	.00055	.40961
SDev	.1314	.00266	.00096	.0	14.5	.00109	.02193
%RSD	8.9282	7.5482	93.372	.0141	9.012	197.70	5.3538
#1	1.5643	.03718	.00035	S146.8	H171.2	.00132	.42511
#2	1.3785	.03341	.00171	S146.8	H150.7	-.00022	.39410
Errors	LC Pass	LC Pass	LC Pass	LC High	LC High	LC Pass	NOCHECK
High	300.00	50.000	10.000	50.00	100.0	10.000	
Low	-.50000	-.02000	-.02000	-1.500	-1.500	-.01000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.42331	.41874	.10045	-.00188	-.01149	.00292	.10989
SDev	.04616	.03808	.00526	.00102	.00971	.00333	.00038
%RSD	10.904	9.0944	5.2331	54.113	84.507	113.91	.34098
#1	.45595	.44567	.10417	-.00116	-.00462	.00057	.11016
#2	.39067	.39181	.09673	-.00260	-.01835	.00527	.10963
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00	100.00	2.0000			
Low		-.05000	-.02000	-.15000			
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.09573	.27556	.00296	.04645	-.00141	.00208	-.00030
SDev	.00770	.03691	.00050	.00373	.00020	.00294	.00056
%RSD	8.0411	13.393	16.854	8.0523	13.976	141.13	189.13

#1	.10117	.30166	.00261	.04909	-.00127	.00416	.00010
#2	.09028	.24947	.00331	.04382	-.00154	.00000	-.00069
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		50.000	50.000	2.0000	10.000	100.00	100.00
Low		-.15000	-.05000	-.02500	-.05000	-.09000	-.02000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	.31827	.0010	.0474				
SDev	.02642	.0001	.0048				
%RSD	8.3023	9.147	10.05				
#1	.33695	.0011	.0508				
#2	.29958	.0010	.0440				
Errors	LC Pass	LC Pass	LC Pass				
High	10.000	2.000	100.0				
Low	-.05000	-.0150	-.5000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	105132	--	--	--	--	--	--
SDev	103.9447	--	--	--	--	--	--
%RSD	.0988711	--	--	--	--	--	--
#1	105058	--	--	--	--	--	--
#2	105205	--	--	--	--	--	--

Method: TESTAM2 Sample Name: 63445k3g msd @10 Operator: mt
 Run Time: 05/02/11 17:03:29
 Comment: 0427-3 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30900	-.05681	.40093	.00374	3.2651	.00002	.00417
SDev	.04536	.00020	.05592	.00096	.4818	.00000	.00434
%RSD	14.680	.35692	13.948	25.717	14.757	18.035	103.91
#1	.34108	-.05666	.44047	.00442	3.6057	.00002	.00724
#2	.27693	-.05695	.36139	.00306	2.9244	.00002	.00111
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	500.00	100.00	50.000	10.000	2.0000	10.000
Low	-.04000	-.50000	-.03000	-.05000	-.01000	-.00500	-.05000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.409	.10304	.00069	.36574	-.00484	-.00467	.42514
SDev	5.142	.01511	.00004	.05423	.00025	.00734	.06172
%RSD	14.521	14.660	6.4134	14.829	5.2554	157.00	14.518
#1	39.045	.11372	.00066	.40409	-.00466	-.00986	.46878
#2	31.773	.09236	.00072	.32739	-.00502	.00052	.38149
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	5.0000	100.00	100.00	50.000	500.00	200.00
Low	-1.0000	-.01000	-.02000	-.01000	-.05000	-.50000	-1.0000
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4750	.03532	.00011	S145.9	H162.9	.00082	.39610
SDev	.2181	.00509	.00042	.2	27.3	.00013	.03778
%RSD	14.787	14.397	368.59	.1231	16.75	16.146	9.5386
#1	1.6292	.03891	-.00018	S146.0	H182.1	.00091	.42281
#2	1.3207	.03172	.00041	S145.7	H143.6	.00073	.36938
Errors	LC Pass	LC Pass	LC Pass	LC High	LC High	LC Pass	NOCHECK
High	300.00	50.000	10.000	50.00	100.0	10.000	
Low	-.50000	-.02000	-.02000	-1.500	-1.500	-.01000	
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.43405	.42140	.10179	-.00062	-.00560	.00187	.10248
SDev	.08404	.06862	.01750	.00194	.00447	.00067	.00923
%RSD	19.363	16.285	17.192	313.02	79.705	35.926	9.0017
#1	.49348	.46992	.11417	-.00199	-.00876	.00140	.10900
#2	.37462	.37288	.08942	.00075	-.00245	.00235	.09595
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		100.00	100.00	2.0000			
Low		-.05000	-.02000	-.15000			
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10145	.28372	.00233	.04706	-.00143	.00196	-.00055
SDev	.02164	.04964	.00186	.00705	.00013	.00359	.00004
%RSD	21.328	17.495	79.641	15.993	9.3188	183.47	6.9386

#1	.11675	.31882	.00102	.05204	-.00134	-.00058	-.00053
#2	.08615	.24862	.00364	.04208	-.00152	.00450	-.00058
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		50.000	50.000	2.0000	10.000	100.00	100.00
Low		-.15000	-.05000	-.02500	-.05000	-.09000	-.02000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	.32106	.0011	.0561				
SDev	.04915	.0002	.0080				
%RSD	15.308	15.33	14.23				
#1	.35582	.0012	.0617				
#2	.28631	.0010	.0504				
Errors	LC Pass	LC Pass	LC Pass				
High	10.000	2.000	100.0				
Low	-.05000	-.0150	-.5000				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	105830	--	--	--	--	--	--
SDev	241.1234	--	--	--	--	--	--
%RSD	.2278414	--	--	--	--	--	--
#1	105659	--	--	--	--	--	--
#2	106000	--	--	--	--	--	--

Method: TESTAM2 Sample Name: ccv Operator: mt
 Run Time: 05/02/11 17:39:29
 Comment: 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.1236	1.9376	2.0839	1.9886	1.8664	1.9503	Q-.00366
SDev	.0083	.0063	.0011	.0048	.0035	.0057	.00560
%RSD	.39072	.32760	.05210	.24325	.18746	.29380	152.73

#1	2.1294	1.9421	2.0831	1.9921	1.8689	1.9544	Q.00029
#2	2.1177	1.9331	2.0846	1.9852	1.8640	1.9463	Q-.00762

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0799	2.1288	2.0981	1.9733	1.8902	2.0381	18.634
SDev	.0061	.0070	.0053	.0059	.0056	.0010	.069
%RSD	.29173	.33110	.25155	.29799	.29854	.04764	.37161

#1	2.0842	2.1338	2.1019	1.9775	1.8942	2.0374	18.683
#2	2.0757	2.1238	2.0944	1.9691	1.8862	2.0388	18.585

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	20.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0260	2.1069	2.1480	Q18.66	21.28	2.1147	2.0956
SDev	.0026	.0057	.0226	.07	.09	.0082	.0054
%RSD	.13004	.27030	1.0499	.3958	.4211	.38599	.25907

#1	2.0278	2.1109	2.1321	Q18.71	21.34	2.1204	2.0995
#2	2.0241	2.1029	2.1640	Q18.61	21.22	2.1089	2.0918

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	2.0000	2.0000	2.0000	22.00	22.00	2.0000	
Range	10.000	10.000	10.000	10.00	10.00	10.000	

Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0839	2.0878	2.0829	Q2.4215	2.4913	2.3865	2.0558
SDev	.0059	.0057	.0060	.1094	.1794	.0744	.0031
%RSD	.28092	.27361	.29031	4.5175	7.1992	3.1178	.15005

#1	2.0880	2.0918	2.0787	Q2.3441	2.3644	2.3339	2.0536
#2	2.0797	2.0837	2.0872	Q2.4988	2.6181	2.4392	2.0580

Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK
Value		2.0000	2.0000	2.0000			
Range		10.000	10.000	10.000			

Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0965	11.014	2.1190	1.9650	1.9957	2.0610	1.9412
SDev	.0075	.003	.0095	.0042	.0029	.0074	.0049
%RSD	.35907	.02341	.44964	.21403	.14754	.36045	.25451

#1	2.0912	11.012	2.1258	1.9679	1.9978	2.0663	1.9447
#2	2.1018	11.016	2.1123	1.9620	1.9936	2.0558	1.9377
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		11.000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		10.000	10.000	10.000	10.000	10.000	10.000
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avge	2.0716	1.926	2.134				
SDev	.0050	.005	.004				
%RSD	.24345	.2769	.1942				
#1	2.0752	1.930	2.137				
#2	2.0680	1.922	2.131				
Errors	QC Pass	QC Pass	QC Pass				
Value	2.0000	2.000	2.000				
Range	10.000	10.00	10.00				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	98784	--	--	--	--	--	--
SDev	8.485281	--	--	--	--	--	--
%RSD	.0085897	--	--	--	--	--	--
#1	98790	--	--	--	--	--	--
#2	98778	--	--	--	--	--	--

Method: TESTAM2 Sample Name: ccb Operator: mt
 Run Time: 05/02/11 17:44:37
 Comment: 6010b
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00081	-.03463	.00280	.00108	.00029	.00023	-.00162
SDev	.00000	.00067	.00154	.00017	.00011	.00001	.00373
%RSD	.11333	1.9451	55.103	16.065	38.654	2.8997	229.87
#1	.00081	-.03511	.00389	.00120	.00021	.00023	-.00426
#2	.00081	-.03415	.00171	.00096	.00037	.00024	.00102
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01044	.00021	.00001	-.00389	-.00137	.00990	.01253
SDev	.00064	.00013	.00032	.00011	.00029	.00784	.01221
%RSD	6.1244	63.586	5315.0	2.9139	21.089	79.128	97.429
#1	-.01089	.00012	-.00022	-.00381	-.00157	.00436	.02117
#2	-.00999	.00031	.00023	-.00397	-.00116	.01544	.00390
Elem	Mg2790	Mn2576	Mo2020	NA5889	NA3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00178	.00052	.01247	.0139	-.0067	-.00024	.00131
SDev	.00211	.00007	.00358	.0004	.0094	.00025	.00341
%RSD	118.72	14.488	28.716	3.265	140.8	102.44	260.10
#1	.00029	.00057	.01500	.0142	-.0000	-.00042	.00372
#2	.00328	.00046	.00994	.0136	-.0133	-.00007	-.00110
Elem	2203/2	Pb2203	Se1960	Sb2068	2068/1	2068/2	1960/1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00066	-.00001	.00218	.02442	.02808	.02260	.00446
SDev	.00187	.00011	.00286	.01113	.01217	.01061	.00961
%RSD	281.26	1646.3	130.75	45.573	43.359	46.949	215.71
#1	-.00199	-.00009	.00420	.03229	.03668	.03010	.01125
#2	.00066	.00007	.00016	.01655	.01947	.01509	-.00234
Elem	1960/2	Si2881	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00105	-.01122	.00144	.00022	.00094	-.00079	.00002
SDev	.00052	.00675	.00014	.00003	.00002	.00059	.00013
%RSD	49.737	60.207	9.8537	13.040	2.3705	74.194	548.22
#1	.00068	-.01600	.00134	.00020	.00093	-.00038	-.00007
#2	.00142	-.00644	.00154	.00024	.00096	-.00121	.00011
Elem	Zn2138	Li6707	P_2149				
Units	ppm	ppm	ppm				
Avgc	-.00897	.0003	.0028				
SDev	.00007	.0000	.0024				
%RSD	.83437	2.653	88.19				
#1	-.00892	.0003	.0010				
#2	-.00902	.0003	.0045				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	95629	--	--	--	--	--	--
SDev	115.9655	--	--	--	--	--	--
%RSD	.1212661	--	--	--	--	--	--
#1	95711	--	--	--	--	--	--
#2	95547	--	--	--	--	--	--

METALS BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

Batch Number: 79507 Batch Start Date: 04/25/11 16:11 Batch Analyst: Nelson, Larry W

Batch Method: 1311 Batch End Date: 04/26/11 08:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_InitialpH	EFD_SecondpHChe ck	LeachatepH	ExtractFluid	AnalysisComment	
LB 510-79507/1		1311, 3010A, 6010B						Extraction Blank #1	
510-63445-J-3	SB0058:TP33:0000 20	1311, 3010A, 6010B	P	7.12	2.38	5.28	1		

Batch Notes	
Tumbler Rotations per Minute	30

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-63445-2

SDG No.: _____

Batch Number: 79570 Batch Start Date: 04/27/11 08:20 Batch Analyst: Nelson, Larry W

Batch Method: 3010A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEQC23 00029	MEQC7 00037	METCLP 00007	AnalysisComment
MB 510-79570/1		3010A, 6010B		50 mL	50 mL				0427-3
LCS 510-79570/2		3010A, 6010B		50 mL	50 mL	0.25 mL	0.5 mL		0427-3
LB 510-79507/1-A		3010A, 6010B		50 mL	50 mL				Extraction Blank #1
510-63445-J-3-D	SB0058:TP33:0000 20	3010A, 6010B	P	50 mL	50 mL				
510-63445-J-3-D MS	SB0058:TP33:0000 20	3010A, 6010B	P	50 mL	50 mL			0.2 mL	
510-63445-J-3-D MSD	SB0058:TP33:0000 20	3010A, 6010B	P	50 mL	50 mL			0.2 mL	

Batch Notes	
Lot # of hydrochloric acid	MEHCL1.1-00082
Lot # of Nitric Acid	MEHNO3-00063
Hot Block ID number	B
Oven, Bath or Block Temperature 1	95.0 Degrees C
ID number of the thermometer	15437
Digestion Tube/Cup Lot #	110206

Basis	Basis Description
P	TCLP

Shipping and Receiving Documents

Chain of Custody Record

Client Information

Client Contact: Jodi Slough
 Ed StefaneK/Jodi Slough
 Company: Weaver Boos Consultants LLC
 Address: 4085 Meghan Beeler Court
 City: South Bend
 State, Zip: IN, 46628
 Phone: 574-271-3447
 Email: estefaneK@weaverboos.com / jslough@weaverboos.com
 Project Name: South Bend Former Studebaker Foundry
 Site: South Bend Former Studebaker Foundry

Lab PM: Kintz, Robin M
E-Mail: robinm.kintz@lestamericainc.com

Sampler: Jodi Slough
Phone: 574.952.5280

Due Date Requested:
TAT Requested (days):
PO #: 0058-373-01
WO #:
Project #: 51001692
SSOW#:

COG No: 510-14134.1
Page: 1 of 2
Job #:

Carrier Tracking No(s):

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weaver, Solid, O-weather, etc)	Field Filtered Sample (Yes or No)		Performance/MSD (Yes or No)		Analysis Requested										Total Number of Containers	Special Instructions/Note:					
					Yes	No	Yes	No	8270C, 8270C-SIM - BNAS	6020, 7470 - Metals	8082 - PCBs	8290B - VOCs	8015 - TPH GRO	8015 - TPH ERO	8290B - VOCs (Trip Blanks)										
NS145	3/21/11	1330	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP32: 000020	3/21/11	1330	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP32: 040050	3/21/11	1335	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP33: 000020	3/21/11	1410	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP33: 040050	3/21/11	1415	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP34: 000020	3/21/11	1435	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP34: 040050	3/21/11	1440	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP35: 000020	3/21/11	1500	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP35: 040050	3/21/11	1505	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP36: 000020	3/21/11	1515	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
SB0058: TP36: 040050	3/21/11	1520	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
MS/MSD	3/21/11	1400	G	S					N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV (Other (specify))

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/IOC Requirements:

Method of Shipment:

Reinforced by: Jodi Slough Date: 3/23/11 Time: 2:14 Company: WBC

Reinforced by: Mandy Bromberg Date: 3-22-11 Time: 1535 Company: TestAmerica

Reinforced by: Mandy Bromberg Date: 3-22-11 Time: 1535 Company: TestAmerica

Custody Seal Intact: Yes No Seals 15274 152104

Cooler Temperature(s) °C and Other Remarks:
16.5018-016.17.0.8 51018.016.0.9

Chain of Custody Record

2400 Cumberland Drive
Valparaiso, IN 46383
Phone (219) 464-2389 Fax (219) 462-2953

Client Information
Client Contact: Jodi Slough
Ed Stefanek/Jodi Slough
Company: Weaver Boos Consultants LLC
Address: 4085 Meghan Beeler Court
City: South Bend
State, Zip: IN, 46628
Phone: 574-271-3447
Email: estefanek@weaverboos.com / jslough@weaverboos.com
Project Name: South Bend Former Studebaker Foundry
Site: South Bend Former Studebaker Foundry

Lab PM: Kintz, Robin M
E-Mail: robinm.kintz@testamericainc.com
Garment Tracking No(s):
IOC No: 510-14134.1
Page: 2 of 2
Job #:

Due Date Requested:
TAT Requested (days):
PO #: 0058-373-01
WO #:
Project #: 51001692
SSOW#:

Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	Perform MSD (Yes or No)	8270C, 8270C SIM - BNAs	6020, 7470 - Metals	8082 - PCBs	8260B - VOCs	8015 - TPH GRO	8015 - TPH ERO	8260B - VOCs (Trip Blanks)	Total Number of Containers	Special Instructions/Note:
3/21/11	1340	G	S	N	N	N	N	N	N	N	N	N		Provides provided
3/21/11	LAB	-	-	N	N	N	N	N	N	N	N	N		trip blank no required BRLMC

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: I, II, III, Other (specify)

Empty Kit Relinquished by: Jodi Slough
Relinquished by: Jodi Slough
Relinquished by: Mandy Brumba
Relinquished by: Jodi Slough

Company: WAC
Company: WAC
Company: TestAmerica
Company: TestAmerica

Date: 3/22/11, 2:14
Date/Time: 3-22-11 1535
Date/Time: 3-22-11 1535
Date/Time: 3-22-11 1414
Date/Time: 3/22/11 1535

Method of Shipment:
Cooler Temperature(s) °C and Other Remarks:
110 90-18-016 1.7 0.8 910-48-096 6.9

Custody Seal No: 752764
Custody Seal No: (Yes) No

Login Sample Receipt Checklist

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Login Number: 63445

List Source: TestAmerica Valparaiso

List Number: 1

Creator: Looney, Christina M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Trip Blank indicated of COC, no vials provided, Trip Blank not needed per RMK
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	1 of 2 terracore kits was rec'd empty for SB0058:TP34:000020
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	