

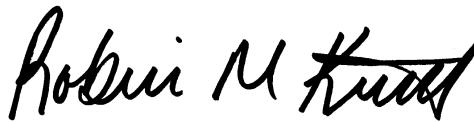
ANALYTICAL REPORT

Job Number: 510-69652-1

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
9/12/2011 1:55 PM

Robin M Kintz
Project Manager I
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09/12/2011

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Valparaiso Certifications and IDs: New Hampshire (283711), Illinois (200065), 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
510-69652-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method(s) 6020: The serial dilution performed for the following sample associated with batch 86249 was outside control limits for lead (Pb). The post digestion spike run on the sample met acceptance criteria as did all other quality control samples associated with the sample. The data is being reported. SB0058:TP4SW4:000020 (510-69652-11)

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
510-69652-1	SB0058:TP33SW1:000020	Solid	09/06/2011 0805	09/06/2011 1500
510-69652-2	SB0058:TP33SW2:000020	Solid	09/06/2011 0810	09/06/2011 1500
510-69652-3	SB0058:TP33SW3:000020	Solid	09/06/2011 0815	09/06/2011 1500
510-69652-4	SB0058:TP33SW4:000020	Solid	09/06/2011 0820	09/06/2011 1500
510-69652-5	SB0058:TP33FLR1:025030	Solid	09/06/2011 0825	09/06/2011 1500
510-69652-6	SB0058:TP33FLR2:025030	Solid	09/06/2011 0830	09/06/2011 1500
510-69652-7	SB0058:TP33FLR3:025030	Solid	09/06/2011 0835	09/06/2011 1500
510-69652-8	SB0058:TP4SW1:000020	Solid	09/06/2011 0840	09/06/2011 1500
510-69652-9	SB0058:TP4SW2:000020	Solid	09/06/2011 0845	09/06/2011 1500
510-69652-10	SB0058:TP4SW3:000020	Solid	09/06/2011 0850	09/06/2011 1500
510-69652-11	SB0058:TP4SW4:000020	Solid	09/06/2011 0900	09/06/2011 1500
510-69652-11MS	SB0058:TP4SW4:000020	Solid	09/06/2011 0900	09/06/2011 1500
510-69652-11MSD	SB0058:TP4SW4:000020	Solid	09/06/2011 0900	09/06/2011 1500
510-69652-12	SB0058:TP4FLR1:025030	Solid	09/06/2011 0910	09/06/2011 1500
510-69652-13	SB0058:TP4FLR2:025030	Solid	09/06/2011 0915	09/06/2011 1500
510-69652-14	SB0058:TP4FLR3:025030	Solid	09/06/2011 0920	09/06/2011 1500
510-69652-15	Field Duplicate	Solid	09/06/2011 0855	09/06/2011 1500

EXECUTIVE SUMMARY - Detections

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
510-69652-1	SB0058:TP33SW1:000020					
Lead		120		13	mg/Kg	6020
Percent Moisture		7.8		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture
510-69652-2	SB0058:TP33SW2:000020					
Percent Moisture		6.1		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture
510-69652-3	SB0058:TP33SW3:000020					
Lead		24		14	mg/Kg	6020
Percent Moisture		9.4		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
510-69652-4	SB0058:TP33SW4:000020					
Lead		70		14	mg/Kg	6020
Percent Moisture		9.6		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
510-69652-5	SB0058:TP33FLR1:025030					
Percent Moisture		8.6		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
510-69652-6	SB0058:TP33FLR2:025030					
Lead		47		13	mg/Kg	6020
Percent Moisture		7.5		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
510-69652-7	SB0058:TP33FLR3:025030					
Lead		44		13	mg/Kg	6020
Percent Moisture		8.4		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture
510-69652-8	SB0058:TP4SW1:000020					
Lead		24		14	mg/Kg	6020
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
510-69652-9	SB0058:TP4SW2:000020					
Lead		67		14	mg/Kg	6020
Percent Moisture		9.3		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
510-69652-10	SB0058:TP4SW3:000020					
Percent Moisture		3.6		0.10	%	Moisture
Percent Solids		96		0.10	%	Moisture
510-69652-11	SB0058:TP4SW4:000020					
Percent Moisture		3.8		0.10	%	Moisture
Percent Solids		96		0.10	%	Moisture
510-69652-12	SB0058:TP4FLR1:025030					
Lead		18		14	mg/Kg	6020
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
510-69652-13	SB0058:TP4FLR2:025030					
Lead		81		14	mg/Kg	6020
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
510-69652-14	SB0058:TP4FLR3:025030					
Lead		71		14	mg/Kg	6020
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
510-69652-15	FIELD DUPLICATE					
Percent Moisture		2.5		0.10	%	Moisture
Percent Solids		97		0.10	%	Moisture

METHOD SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Metals (ICP/MS)	TAL VAL	SW846 6020	
Preparation, Metals	TAL VAL		SW846 3050B
Percent Moisture	TAL VAL	EPA Moisture	

Lab References:

TAL VAL = TestAmerica Valparaiso

Method References:

EPA = US Environmental Protection Agency

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: 510-69652-1

Method	Analyst	Analyst ID
SW846 6020	Tharpe, Matt	MT
EPA Moisture	Hall, Jennifer L	JLH

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33SW1:000020

Lab Sample ID: 510-69652-1

Date Sampled: 09/06/2011 0805

Client Matrix: Solid

% Moisture: 7.8

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 015SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0143 g

Analysis Date: 09/07/2011 1340

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		120	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33SW2:000020

Lab Sample ID: 510-69652-2

Date Sampled: 09/06/2011 0810

Client Matrix: Solid

% Moisture: 6.1

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 016SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0085 g

Analysis Date: 09/07/2011 1343

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		<13	RL 13

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33SW3:000020

Lab Sample ID: 510-69652-3

Date Sampled: 09/06/2011 0815

Client Matrix: Solid

% Moisture: 9.4

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 017SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0030 g

Analysis Date: 09/07/2011 1346

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		24	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33SW4:000020

Lab Sample ID: 510-69652-4

Date Sampled: 09/06/2011 0820

Client Matrix: Solid

% Moisture: 9.6

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 018SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0074 g

Analysis Date: 09/07/2011 1349

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		70	RL 14

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33FLR1:025030

Lab Sample ID: 510-69652-5

Date Sampled: 09/06/2011 0825

Client Matrix: Solid

% Moisture: 8.6

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 021SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0189 g

Analysis Date: 09/07/2011 1357

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		<13	RL 13

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33FLR2:025030

Lab Sample ID: 510-69652-6

Date Sampled: 09/06/2011 0830

Client Matrix: Solid

% Moisture: 7.5

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 022SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0086 g

Analysis Date: 09/07/2011 1400

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		47	RL 13

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP33FLR3:025030

Lab Sample ID: 510-69652-7

Date Sampled: 09/06/2011 0835

Client Matrix: Solid

% Moisture: 8.4

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 023SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0148 g

Analysis Date: 09/07/2011 1403

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		44	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4SW1:000020

Lab Sample ID: 510-69652-8

Date Sampled: 09/06/2011 0840

Client Matrix: Solid

% Moisture: 11.4

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 024SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0099 g

Analysis Date: 09/07/2011 1406

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		24	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4SW2:000020

Lab Sample ID: 510-69652-9

Date Sampled: 09/06/2011 0845

Client Matrix: Solid

% Moisture: 9.3

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 025SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0102 g

Analysis Date: 09/07/2011 1409

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		67	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4SW3:000020

Lab Sample ID: 510-69652-10

Date Sampled: 09/06/2011 0850

Client Matrix: Solid

% Moisture: 3.6

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 026SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0224 g

Analysis Date: 09/07/2011 1412

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		<13	RL 13

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4SW4:000020

Lab Sample ID: 510-69652-11

Date Sampled: 09/06/2011 0900

Client Matrix: Solid

% Moisture: 3.8

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 027SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0135 g

Analysis Date: 09/07/2011 1414

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		<13	RL 13

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4FLR1:025030

Lab Sample ID: 510-69652-12

Date Sampled: 09/06/2011 0910

Client Matrix: Solid

% Moisture: 12.8

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 034SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0061 g

Analysis Date: 09/07/2011 1434

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		18	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4FLR2:025030

Lab Sample ID: 510-69652-13

Date Sampled: 09/06/2011 0915

Client Matrix: Solid

% Moisture: 10.9

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 035SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0177 g

Analysis Date: 09/07/2011 1437

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		81	RL

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: SB0058:TP4FLR3:025030

Lab Sample ID: 510-69652-14

Date Sampled: 09/06/2011 0920

Client Matrix: Solid

% Moisture: 13.5

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 036SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0030 g

Analysis Date: 09/07/2011 1440

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		71	RL 14

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Client Sample ID: Field Duplicate

Lab Sample ID: 510-69652-15

Date Sampled: 09/06/2011 0855

Client Matrix: Solid

% Moisture: 2.5

Date Received: 09/06/2011 1500

6020 Metals (ICP/MS)

Analysis Method: 6020

Analysis Batch: 510-86249

Instrument ID: MICPMSB

Prep Method: 3050B

Prep Batch: 510-86198

Lab File ID: 037SMPL.d

Dilution: 5.0

Initial Weight/Volume: 1.0110 g

Analysis Date: 09/07/2011 1443

Final Weight/Volume: 50 mL

Prep Date: 09/07/2011 0616

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier
Lead		<13	RL 13

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33SW1:000020

Lab Sample ID: 510-69652-1

Date Sampled: 09/06/2011 0805

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	7.8		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	92		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33SW2:000020

Lab Sample ID: 510-69652-2

Date Sampled: 09/06/2011 0810

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	6.1		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	94		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33SW3:000020

Lab Sample ID: 510-69652-3

Date Sampled: 09/06/2011 0815

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	9.4		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191		Analysis Date: 09/06/2011 1634			DryWt Corrected: N
Percent Solids	91		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191		Analysis Date: 09/06/2011 1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33SW4:000020

Lab Sample ID: 510-69652-4

Date Sampled: 09/06/2011 0820

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	9.6		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	90		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33FLR1:025030

Lab Sample ID: 510-69652-5

Date Sampled: 09/06/2011 0825

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	8.6		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	91		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33FLR2:025030

Lab Sample ID: 510-69652-6

Date Sampled: 09/06/2011 0830

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	7.5		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	93		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP33FLR3:025030

Lab Sample ID: 510-69652-7

Date Sampled: 09/06/2011 0835

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	8.4		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	92		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4SW1:000020

Lab Sample ID: 510-69652-8

Date Sampled: 09/06/2011 0840

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	11		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	89		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4SW2:000020

Lab Sample ID: 510-69652-9

Client Matrix: Solid

Date Sampled: 09/06/2011 0845

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	9.3		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	91		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4SW3:000020

Lab Sample ID: 510-69652-10
Client Matrix: Solid

Date Sampled: 09/06/2011 0850
Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	3.6		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	96		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4SW4:000020

Lab Sample ID: 510-69652-11

Date Sampled: 09/06/2011 0900

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	3.8		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	96		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4FLR1:025030

Lab Sample ID: 510-69652-12

Date Sampled: 09/06/2011 0910

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	13		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	87		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4FLR2:025030

Lab Sample ID: 510-69652-13

Date Sampled: 09/06/2011 0915

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	11		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	89		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: SB0058:TP4FLR3:025030

Lab Sample ID: 510-69652-14

Date Sampled: 09/06/2011 0920

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	13		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N
Percent Solids	87		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1634			DryWt Corrected: N

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

General Chemistry

Client Sample ID: Field Duplicate

Lab Sample ID: 510-69652-15

Date Sampled: 09/06/2011 0855

Client Matrix: Solid

Date Received: 09/06/2011 1500

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	2.5		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1637			DryWt Corrected: N
Percent Solids	97		%	0.10	1.0	Moisture
	Analysis Batch: 510-86191	Analysis Date: 09/06/2011	1637			DryWt Corrected: N

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Method Blank - Batch: 510-86198

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 510-86198/1-A ^5	Analysis Batch: 510-86249	Instrument ID: MICPMSB
Client Matrix: Solid	Prep Batch: 510-86198	Lab File ID: 013SMPL.d
Dilution: 5.0	Leach Batch: N/A	Initial Weight/Volume: 1.0 g
Analysis Date: 09/07/2011 1335	Units: mg/Kg	Final Weight/Volume: 50 mL
Prep Date: 09/07/2011 0616		
Leach Date: N/A		

Analyte	Result	Qual	RL
Lead	<13		13

Lab Control Sample - Batch: 510-86198

Method: 6020
Preparation: 3050B

Lab Sample ID: LCS 510-86198/2-A ^5	Analysis Batch: 510-86249	Instrument ID: MICPMSB
Client Matrix: Solid	Prep Batch: 510-86198	Lab File ID: 014SMPL.d
Dilution: 5.0	Leach Batch: N/A	Initial Weight/Volume: 1.0024 g
Analysis Date: 09/07/2011 1338	Units: mg/Kg	Final Weight/Volume: 50 mL
Prep Date: 09/07/2011 0616		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	92.4	98.1	106	83 - 117	

Post Digestion Spike - Batch: 510-86198

Method: 6020
Preparation: 3050B

Lab Sample ID: 510-69652-11	Analysis Batch: 510-86249	Instrument ID: MICPMSB
Client Matrix: Solid	Prep Batch: 510-86198	Lab File ID: 033SMPL.d
Dilution: 5.0	Leach Batch: N/A	Initial Weight/Volume: 1.0135 g
Analysis Date: 09/07/2011 1431	Units: mg/Kg	Final Weight/Volume: 50 mL
Prep Date: 09/07/2011 0616		
Leach Date: N/A		

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	<13	128	154	111	75 - 125	

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 510-86198**

**Method: 6020
Preparation: 3050B**

MS Lab Sample ID: 510-69652-11
Client Matrix: Solid
Dilution: 5.0
Analysis Date: 09/07/2011 1417
Prep Date: 09/07/2011 0616
Leach Date: N/A

Analysis Batch: 510-86249
Prep Batch: 510-86198
Leach Batch: N/A

Instrument ID: MICPMSB
Lab File ID: 028SMPL.d
Initial Weight/Volume: 1.0210 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 510-69652-11
Client Matrix: Solid
Dilution: 5.0
Analysis Date: 09/07/2011 1420
Prep Date: 09/07/2011 0616
Leach Date: N/A

Analysis Batch: 510-86249
Prep Batch: 510-86198
Leach Batch: N/A

Instrument ID: MICPMSB
Lab File ID: 029SMPL.d
Initial Weight/Volume: 1.0092 g
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Lead	109	110	75 - 125	2	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 510-86198**

**Method: 6020
Preparation: 3050B**

MS Lab Sample ID: 510-69652-11
Client Matrix: Solid
Dilution: 5.0
Analysis Date: 09/07/2011 1417
Prep Date: 09/07/2011 0616
Leach Date: N/A

Units: mg/Kg

MSD Lab Sample ID: 510-69652-11
Client Matrix: Solid
Dilution: 5.0
Analysis Date: 09/07/2011 1420
Prep Date: 09/07/2011 0616
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Lead	<13	50.9	51.5	67.9	69.0

Serial Dilution - Batch: 510-86198

**Method: 6020
Preparation: 3050B**

Lab Sample ID: 510-69652-11
Client Matrix: Solid
Dilution: 25
Analysis Date: 09/07/2011 1423
Prep Date: 09/07/2011 0616
Leach Date: N/A

Analysis Batch: 510-86249
Prep Batch: 510-86198
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MICPMSB
Lab File ID: 030SMPL.d
Initial Weight/Volume: 1.0135 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Lead	<13	<64	30	10	V

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Method Blank - Batch: 510-86191

**Method: Moisture
Preparation: N/A**

Lab Sample ID: MB 510-86191/1	Analysis Batch: 510-86191	Instrument ID: GBALB	
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: N/A	
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume:	
Analysis Date: 09/06/2011 1634	Units: %	Final Weight/Volume:	
Prep Date: N/A			
Leach Date: N/A			

Analyte	Result	Qual	RL
Percent Moisture	100		0.10
Percent Solids	0.025		0.10

Duplicate - Batch: 510-86191

**Method: Moisture
Preparation: N/A**

Lab Sample ID: 510-69652-2	Analysis Batch: 510-86191	Instrument ID: GBALB	
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: N/A	
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume:	
Analysis Date: 09/06/2011 1634	Units: %	Final Weight/Volume:	
Prep Date: N/A			
Leach Date: N/A			

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.1	6.9	11	20	
Percent Solids	94	93	0.8	20	

Duplicate - Batch: 510-86191

**Method: Moisture
Preparation: N/A**

Lab Sample ID: 510-69652-15	Analysis Batch: 510-86191	Instrument ID: GBALB	
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: N/A	
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume:	
Analysis Date: 09/06/2011 1637	Units: %	Final Weight/Volume:	
Prep Date: N/A			
Leach Date: N/A			

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	2.5	2.7	6	20	
Percent Solids	97	97	0.2	20	

DATA REPORTING QUALIFIERS

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Lab Section	Qualifier	Description
Metals	V	Serial Dilution exceeds the control limits

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 510-86198					
LCS 510-86198/2-A ^5	Lab Control Sample	T	Solid	3050B	
MB 510-86198/1-A ^5	Method Blank	T	Solid	3050B	
510-69652-1	SB0058:TP33SW1:000020	T	Solid	3050B	
510-69652-2	SB0058:TP33SW2:000020	T	Solid	3050B	
510-69652-3	SB0058:TP33SW3:000020	T	Solid	3050B	
510-69652-4	SB0058:TP33SW4:000020	T	Solid	3050B	
510-69652-5	SB0058:TP33FLR1:025030	T	Solid	3050B	
510-69652-6	SB0058:TP33FLR2:025030	T	Solid	3050B	
510-69652-7	SB0058:TP33FLR3:025030	T	Solid	3050B	
510-69652-8	SB0058:TP4SW1:000020	T	Solid	3050B	
510-69652-9	SB0058:TP4SW2:000020	T	Solid	3050B	
510-69652-10	SB0058:TP4SW3:000020	T	Solid	3050B	
510-69652-11	SB0058:TP4SW4:000020	T	Solid	3050B	
510-69652-11MS	Matrix Spike	T	Solid	3050B	
510-69652-11MSD	Matrix Spike Duplicate	T	Solid	3050B	
510-69652-12	SB0058:TP4FLR1:025030	T	Solid	3050B	
510-69652-13	SB0058:TP4FLR2:025030	T	Solid	3050B	
510-69652-14	SB0058:TP4FLR3:025030	T	Solid	3050B	
510-69652-15	Field Duplicate	T	Solid	3050B	
Analysis Batch:510-86249					
LCS 510-86198/2-A ^5	Lab Control Sample	T	Solid	6020	510-86198
MB 510-86198/1-A ^5	Method Blank	T	Solid	6020	510-86198
510-69652-1	SB0058:TP33SW1:000020	T	Solid	6020	510-86198
510-69652-2	SB0058:TP33SW2:000020	T	Solid	6020	510-86198
510-69652-3	SB0058:TP33SW3:000020	T	Solid	6020	510-86198
510-69652-4	SB0058:TP33SW4:000020	T	Solid	6020	510-86198
510-69652-5	SB0058:TP33FLR1:025030	T	Solid	6020	510-86198
510-69652-6	SB0058:TP33FLR2:025030	T	Solid	6020	510-86198
510-69652-7	SB0058:TP33FLR3:025030	T	Solid	6020	510-86198
510-69652-8	SB0058:TP4SW1:000020	T	Solid	6020	510-86198
510-69652-9	SB0058:TP4SW2:000020	T	Solid	6020	510-86198
510-69652-10	SB0058:TP4SW3:000020	T	Solid	6020	510-86198
510-69652-11	SB0058:TP4SW4:000020	T	Solid	6020	510-86198
510-69652-11MS	Matrix Spike	T	Solid	6020	510-86198
510-69652-11MSD	Matrix Spike Duplicate	T	Solid	6020	510-86198
510-69652-12	SB0058:TP4FLR1:025030	T	Solid	6020	510-86198
510-69652-13	SB0058:TP4FLR2:025030	T	Solid	6020	510-86198
510-69652-14	SB0058:TP4FLR3:025030	T	Solid	6020	510-86198
510-69652-15	Field Duplicate	T	Solid	6020	510-86198

Report Basis

T = Total

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:510-86191					
MB 510-86191/1	Method Blank	T	Solid	Moisture	
510-69652-1	SB0058:TP33SW1:000020	T	Solid	Moisture	
510-69652-2	SB0058:TP33SW2:000020	T	Solid	Moisture	
510-69652-2DU	Duplicate	T	Solid	Moisture	
510-69652-3	SB0058:TP33SW3:000020	T	Solid	Moisture	
510-69652-4	SB0058:TP33SW4:000020	T	Solid	Moisture	
510-69652-5	SB0058:TP33FLR1:025030	T	Solid	Moisture	
510-69652-6	SB0058:TP33FLR2:025030	T	Solid	Moisture	
510-69652-7	SB0058:TP33FLR3:025030	T	Solid	Moisture	
510-69652-8	SB0058:TP4SW1:000020	T	Solid	Moisture	
510-69652-9	SB0058:TP4SW2:000020	T	Solid	Moisture	
510-69652-10	SB0058:TP4SW3:000020	T	Solid	Moisture	
510-69652-11	SB0058:TP4SW4:000020	T	Solid	Moisture	
510-69652-11MS	Matrix Spike	T	Solid	Moisture	
510-69652-11MSD	Matrix Spike Duplicate	T	Solid	Moisture	
510-69652-12	SB0058:TP4FLR1:025030	T	Solid	Moisture	
510-69652-13	SB0058:TP4FLR2:025030	T	Solid	Moisture	
510-69652-14	SB0058:TP4FLR3:025030	T	Solid	Moisture	
510-69652-15	Field Duplicate	T	Solid	Moisture	
510-69652-15DU	Duplicate	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Laboratory Chronicle

Lab ID: 510-69652-1

Client ID: SB0058:TP33SW1:000020

Sample Date/Time: 09/06/2011 08:05 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-1-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-1-A ^5		510-86249	510-86198	09/07/2011 13:40	5	TAL VAL	MT
A:Moisture	510-69652-A-1		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-2

Client ID: SB0058:TP33SW2:000020

Sample Date/Time: 09/06/2011 08:10 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-2-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-2-A ^5		510-86249	510-86198	09/07/2011 13:43	5	TAL VAL	MT
A:Moisture	510-69652-A-2		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-2 DU

Client ID: SB0058:TP33SW2:000020

Sample Date/Time: 09/06/2011 08:10 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	510-69652-A-2 DU		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-3

Client ID: SB0058:TP33SW3:000020

Sample Date/Time: 09/06/2011 08:15 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-3-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-3-A ^5		510-86249	510-86198	09/07/2011 13:46	5	TAL VAL	MT
A:Moisture	510-69652-A-3		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-4

Client ID: SB0058:TP33SW4:000020

Sample Date/Time: 09/06/2011 08:20 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-4-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-4-A ^5		510-86249	510-86198	09/07/2011 13:49	5	TAL VAL	MT
A:Moisture	510-69652-A-4		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Laboratory Chronicle

Lab ID: 510-69652-5

Client ID: SB0058:TP33FLR1:025030

Sample Date/Time: 09/06/2011 08:25 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	Analyzed				
P:3050B	510-69652-A-5-A ^5		510-86249	510-86198	09/07/2011	06:16	5	TAL VAL	LWN
A:6020	510-69652-A-5-A ^5		510-86249	510-86198	09/07/2011	13:57	5	TAL VAL	MT
A:Moisture	510-69652-A-5		510-86191		09/06/2011	16:34	1	TAL VAL	JLH

Lab ID: 510-69652-6

Client ID: SB0058:TP33FLR2:025030

Sample Date/Time: 09/06/2011 08:30 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	Analyzed				
P:3050B	510-69652-A-6-A ^5		510-86249	510-86198	09/07/2011	06:16	5	TAL VAL	LWN
A:6020	510-69652-A-6-A ^5		510-86249	510-86198	09/07/2011	14:00	5	TAL VAL	MT
A:Moisture	510-69652-A-6		510-86191		09/06/2011	16:34	1	TAL VAL	JLH

Lab ID: 510-69652-7

Client ID: SB0058:TP33FLR3:025030

Sample Date/Time: 09/06/2011 08:35 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	Analyzed				
P:3050B	510-69652-A-7-A ^5		510-86249	510-86198	09/07/2011	06:16	5	TAL VAL	LWN
A:6020	510-69652-A-7-A ^5		510-86249	510-86198	09/07/2011	14:03	5	TAL VAL	MT
A:Moisture	510-69652-A-7		510-86191		09/06/2011	16:34	1	TAL VAL	JLH

Lab ID: 510-69652-8

Client ID: SB0058:TP4SW1:000020

Sample Date/Time: 09/06/2011 08:40 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	Analyzed				
P:3050B	510-69652-A-8-A ^5		510-86249	510-86198	09/07/2011	06:16	5	TAL VAL	LWN
A:6020	510-69652-A-8-A ^5		510-86249	510-86198	09/07/2011	14:06	5	TAL VAL	MT
A:Moisture	510-69652-A-8		510-86191		09/06/2011	16:34	1	TAL VAL	JLH

Lab ID: 510-69652-9

Client ID: SB0058:TP4SW2:000020

Sample Date/Time: 09/06/2011 08:45 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	Analyzed				
P:3050B	510-69652-A-9-A ^5		510-86249	510-86198	09/07/2011	06:16	5	TAL VAL	LWN
A:6020	510-69652-A-9-A ^5		510-86249	510-86198	09/07/2011	14:09	5	TAL VAL	MT
A:Moisture	510-69652-A-9		510-86191		09/06/2011	16:34	1	TAL VAL	JLH

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Laboratory Chronicle

Lab ID: 510-69652-10

Client ID: SB0058:TP4SW3:000020

Sample Date/Time: 09/06/2011 08:50 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-10-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-10-A ^5		510-86249	510-86198	09/07/2011 14:12	5	TAL VAL	MT
A:Moisture	510-69652-A-10		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-11

Client ID: SB0058:TP4SW4:000020

Sample Date/Time: 09/06/2011 09:00 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-11-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-11-A ^5		510-86249	510-86198	09/07/2011 14:14	5	TAL VAL	MT
A:Moisture	510-69652-A-11		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-11

Client ID: SB0058:TP4SW4:000020

Sample Date/Time: 09/06/2011 09:00 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-11-B MS ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-11-B MS ^5		510-86249	510-86198	09/07/2011 14:17	5	TAL VAL	MT
A:Moisture	510-69652-A-11 MS		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-11

Client ID: SB0058:TP4SW4:000020

Sample Date/Time: 09/06/2011 09:00 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-11-C MSD ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-11-C MSD ^5		510-86249	510-86198	09/07/2011 14:20	5	TAL VAL	MT
A:Moisture	510-69652-A-11 MSD		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Laboratory Chronicle

Lab ID: 510-69652-11 SD

Client ID: SB0058:TP4SW4:000020

Sample Date/Time: 09/06/2011 09:00 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-11-A SD ^25		510-86249	510-86198	09/07/2011 06:16	25	TAL VAL	LWN
A:6020	510-69652-A-11-A SD ^25		510-86249	510-86198	09/07/2011 14:23	25	TAL VAL	MT
P:3050B	510-69652-A-11-A PDS ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-11-A PDS ^5		510-86249	510-86198	09/07/2011 14:31	5	TAL VAL	MT

Lab ID: 510-69652-12

Client ID: SB0058:TP4FLR1:025030

Sample Date/Time: 09/06/2011 09:10 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-12-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-12-A ^5		510-86249	510-86198	09/07/2011 14:34	5	TAL VAL	MT
A:Moisture	510-69652-A-12		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-13

Client ID: SB0058:TP4FLR2:025030

Sample Date/Time: 09/06/2011 09:15 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-13-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-13-A ^5		510-86249	510-86198	09/07/2011 14:37	5	TAL VAL	MT
A:Moisture	510-69652-A-13		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-14

Client ID: SB0058:TP4FLR3:025030

Sample Date/Time: 09/06/2011 09:20 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-14-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-14-A ^5		510-86249	510-86198	09/07/2011 14:40	5	TAL VAL	MT
A:Moisture	510-69652-A-14		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

Lab ID: 510-69652-15

Client ID: Field Duplicate

Sample Date/Time: 09/06/2011 08:55 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	510-69652-A-15-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	510-69652-A-15-A ^5		510-86249	510-86198	09/07/2011 14:43	5	TAL VAL	MT
A:Moisture	510-69652-A-15		510-86191		09/06/2011 16:37	1	TAL VAL	JLH

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Laboratory Chronicle

Lab ID: 510-69652-15 DU

Client ID: Field Duplicate

Sample Date/Time: 09/06/2011 08:55 Received Date/Time: 09/06/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	510-69652-A-15 DU		510-86191		09/06/2011 16:37	1	TAL VAL	JLH

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:3050B	MB 510-86198/1-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	MB 510-86198/1-A ^5		510-86249	510-86198	09/07/2011 13:35	5	TAL VAL	MT
A:Moisture	MB 510-86191/1		510-86191		09/06/2011 16:34	1	TAL VAL	JLH

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:3050B	LCS 510-86198/2-A ^5		510-86249	510-86198	09/07/2011 06:16	5	TAL VAL	LWN
A:6020	LCS 510-86198/2-A ^5		510-86249	510-86198	09/07/2011 13:38	5	TAL VAL	MT

Lab References:

TAL VAL = TestAmerica Valparaiso

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Valparaiso

Job Number: 510-69652-1

SDG No.: _____

Project: South Bend Former Studebaker Foundry

Client Sample ID	Lab Sample ID
<u>SB0058:TP33SW1:000020</u>	<u>510-69652-1</u>
<u>SB0058:TP33SW2:000020</u>	<u>510-69652-2</u>
<u>SB0058:TP33SW3:000020</u>	<u>510-69652-3</u>
<u>SB0058:TP33SW4:000020</u>	<u>510-69652-4</u>
<u>SB0058:TP33FLR1:025030</u>	<u>510-69652-5</u>
<u>SB0058:TP33FLR2:025030</u>	<u>510-69652-6</u>
<u>SB0058:TP33FLR3:025030</u>	<u>510-69652-7</u>
<u>SB0058:TP4SW1:000020</u>	<u>510-69652-8</u>
<u>SB0058:TP4SW2:000020</u>	<u>510-69652-9</u>
<u>SB0058:TP4SW3:000020</u>	<u>510-69652-10</u>
<u>SB0058:TP4SW4:000020</u>	<u>510-69652-11</u>
<u>SB0058:TP4FLR1:025030</u>	<u>510-69652-12</u>
<u>SB0058:TP4FLR2:025030</u>	<u>510-69652-13</u>
<u>SB0058:TP4FLR3:025030</u>	<u>510-69652-14</u>
<u>Field Duplicate</u>	<u>510-69652-15</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP33SW1:000020

Lab Sample ID: 510-69652-1

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:05

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 92.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	120	13	0.066	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP33SW2:000020

Lab Sample ID: 510-69652-2

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:10

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 93.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	<13	13	0.065	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP33SW3:000020

Lab Sample ID: 510-69652-3

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:15

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 90.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	24	14	0.068	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP33SW4:000020

Lab Sample ID: 510-69652-4

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:20

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 90.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	70	14	0.068	mg/Kg			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB0058:TP33FLR1:025030

Lab Sample ID: 510-69652-5

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.:

Matrix: Solid

Date Sampled: 09/06/2011 08:25

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 91.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	<13	13	0.066	mg/Kg			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB0058:TP33FLR2:025030

Lab Sample ID: 510-69652-6

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.:

Matrix: Solid

Date Sampled: 09/06/2011 08:30

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 92.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	47	13	0.066	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP33FLR3:025030

Lab Sample ID: 510-69652-7

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:35

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 91.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	44	13	0.066	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP4SW1:000020

Lab Sample ID: 510-69652-8

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:40

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 88.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	24	14	0.069	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP4SW2:000020

Lab Sample ID: 510-69652-9

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:45

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 90.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	67	14	0.067	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP4SW3:000020

Lab Sample ID: 510-69652-10

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:50

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 96.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	<13	13	0.062	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP4SW4:000020

Lab Sample ID: 510-69652-11

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 09:00

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 96.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	<13	13	0.063	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP4FLR1:025030

Lab Sample ID: 510-69652-12

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 09:10

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 87.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	18	14	0.070	mg/Kg			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB0058:TP4FLR2:025030

Lab Sample ID: 510-69652-13

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.:

Matrix: Solid

Date Sampled: 09/06/2011 09:15

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 89.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	81	14	0.068	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: SB0058:TP4FLR3:025030

Lab Sample ID: 510-69652-14

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 09:20

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 86.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	71	14	0.071	mg/Kg			5	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: Field Duplicate

Lab Sample ID: 510-69652-15

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 09/06/2011 08:55

Reporting Basis: DRY

Date Received: 09/06/2011 15:00

% Solids: 97.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	<13	13	0.062	mg/Kg			5	6020

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

ICV Source: MEicpmsbicv+_00011 Concentration Units: ug/L

CCV Source: MEicpmsbicv+_00011

Analyte	ICV 510-86249/7 09/07/2011 13:18				CCV 510-86249/19 09/07/2011 13:52				CCV 510-86249/31 09/07/2011 14:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	53.5		50.0	107	53.2		50.0	106	54.3		50.0	109

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.: 510-69652-1

SDG No.: _____

ICV Source: MEicpmsbicv+_00011 Concentration Units: ug/L

CCV Source: MEicpmsbicv+_00011

Analyte	CCV 510-86249/38 09/07/2011 14:45											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	52.2		50.0	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.: 510-69652-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 510-86249/8 09/07/2011 13:21		CCB 510-86249/20 09/07/2011 13:55		CCB 510-86249/32 09/07/2011 14:28		CCB 510-86249/39 09/07/2011 14:48	
		Found	C	Found	C	Found	C	Found	C
Lead	0.50	<0.50		<0.50		<0.50		<0.50	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1
SDG No.: _____
Concentration Units: mg/Kg Lab Sample ID: MB 510-86198/1-A ^5
Instrument Code: MICPMSB Batch No.: 86249

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	<13			6020

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG No.: _____

Lab Sample ID: ICSA 510-86249/9

Instrument ID: MICPMSB

Lab File ID: 009SMPL.d

ICS Source: MEmsisa_00078

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Lead		0.0690	
<i>Aluminum</i>	<i>25000</i>	<i>24672</i>	<i>99</i>
<i>Antimony</i>		<i>0.292</i>	
<i>Arsenic</i>		<i>0.0790</i>	
<i>Barium</i>		<i>0.101</i>	
<i>Beryllium</i>		<i>0.0000</i>	
<i>Boron</i>		<i>17.7</i>	
<i>Cadmium</i>		<i>0.358</i>	
<i>Chromium</i>		<i>0.645</i>	
<i>Cobalt</i>		<i>0.0270</i>	
<i>Copper</i>		<i>0.276</i>	
<i>Iron</i>	<i>62500</i>	<i>59657</i>	<i>95</i>
<i>Lithium</i>		<i>0.253</i>	
<i>Magnesium</i>	<i>25000</i>	<i>23466</i>	<i>94</i>
<i>Manganese</i>		<i>0.186</i>	
<i>Molybdenum</i>	<i>500</i>	<i>538</i>	<i>108</i>
<i>Nickel</i>		<i>0.334</i>	
<i>Phosphorus as P</i>	<i>25000</i>	<i>23847</i>	<i>95</i>
<i>Potassium</i>	<i>25000</i>	<i>23431</i>	<i>94</i>
<i>Selenium</i>		<i>0.0310</i>	
<i>Silicon</i>		<i>15.4</i>	
<i>Silver</i>		<i>0.0470</i>	
<i>Sodium</i>	<i>62500</i>	<i>59807</i>	<i>96</i>
<i>Strontium</i>		<i>0.307</i>	
<i>Thallium</i>		<i>0.0210</i>	
<i>Tin</i>		<i>0.0770</i>	
<i>Titanium</i>	<i>500</i>	<i>492</i>	<i>98</i>
<i>Vanadium</i>		<i>0.135</i>	
<i>Zinc</i>		<i>1.32</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG No.: _____

Lab Sample ID: ICSAB 510-86249/10

Instrument ID: MICPMSB

Lab File ID: 010SMPL.d

ICS Source: MEmsisab_00077

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Lead		0.0710	
<i>Aluminum</i>	25000	24704	99
<i>Antimony</i>		0.231	
<i>Arsenic</i>	100	102	102
<i>Barium</i>		0.0470	
<i>Beryllium</i>		0.0000	
<i>Boron</i>		4.94	
<i>Cadmium</i>	100	102	102
<i>Chromium</i>	200	187	94
<i>Cobalt</i>	200	189	94
<i>Copper</i>	200	189	95
<i>Iron</i>	62500	58519	94
<i>Lithium</i>		0.0850	
<i>Magnesium</i>	25000	23090	92
<i>Manganese</i>	200	195	98
<i>Molybdenum</i>	500	536	107
<i>Nickel</i>	200	182	91
<i>Phosphorus as P</i>	25000	23496	94
<i>Potassium</i>	25000	23145	93
<i>Selenium</i>	100	96.3	96
<i>Silicon</i>		5.19	
<i>Silver</i>	50.0	49.5	99
<i>Sodium</i>	62500	59129	95
<i>Strontium</i>		0.307	
<i>Thallium</i>		0.0070	
<i>Tin</i>		0.0450	
<i>Titanium</i>	500	491	98
<i>Vanadium</i>	200	198	99
<i>Zinc</i>	100	84.5	85

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: SB0058:TP4SW4:000020 MS Lab ID: 510-69652-11 MS
 Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1
 SDG No.: _____
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 96.2

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	67.9	<13	50.9	109	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: SB0058:TP4SW4:000020 MSD Lab ID: 510-69652-11 MSD
 Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1
 SDG No.: _____
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 96.2

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	69.0	51.5	110	75-125	2	20		6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS

Client ID: SB0058:TP4SW4:000020 PDS Lab ID: 510-69652-11 PDS
 Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1
 SDG No.: _____
 Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	154	<13	128	111	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Note - Results and Reporting Limits have been adjusted for dry weight.

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 510-86198/2-A ^5

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

Sample Matrix: Solid

LCS Source: MELCSSOIL_00017

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Lead	92.4	98.1		106	83	117	6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 510-69652-11

SDG No: _____

Lab Name: TestAmerica Valparaiso

Job No: 510-69652-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Lead	<13	<64	30	V	6020

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Valparaiso

Job Number: 510-69652-1

SDG Number: _____

Matrix: Solid

Instrument ID: MICPMSB

Method: 6020

MDL Date: 02/26/2009 13:54

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (ug/Kg)
Lead	208	2.5	12.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Valparaiso Job Number: 510-69652-1
SDG Number: _____
Matrix: Solid Instrument ID: MICPMSB
Method: 6020 XMDL Date: 02/26/2009 13:39

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Lead	208	0.5	0.246

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Valparaiso

Job No: 510-69652-1

SDG No.: _____

Instrument ID: MICPMSB

Date: 07/19/2011 10:45

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Lead		50000	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Valparaiso

Job No.: 510-69652-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 510-86198/1-A ^5	09/07/2011 06:16	86198	1.0		50
LCS 510-86198/2-A ^5	09/07/2011 06:16	86198	1.0024		50
510-69652-1	09/07/2011 06:16	86198	1.0143		50
510-69652-2	09/07/2011 06:16	86198	1.0085		50
510-69652-3	09/07/2011 06:16	86198	1.0030		50
510-69652-4	09/07/2011 06:16	86198	1.0074		50
510-69652-5	09/07/2011 06:16	86198	1.0189		50
510-69652-6	09/07/2011 06:16	86198	1.0086		50
510-69652-7	09/07/2011 06:16	86198	1.0148		50
510-69652-8	09/07/2011 06:16	86198	1.0099		50
510-69652-9	09/07/2011 06:16	86198	1.0102		50
510-69652-10	09/07/2011 06:16	86198	1.0224		50
510-69652-11	09/07/2011 06:16	86198	1.0135		50
510-69652-11 MS	09/07/2011 06:16	86198	1.0210		50
510-69652-11 MSD	09/07/2011 06:16	86198	1.0092		50
510-69652-12	09/07/2011 06:16	86198	1.0061		50
510-69652-13	09/07/2011 06:16	86198	1.0177		50
510-69652-14	09/07/2011 06:16	86198	1.0030		50
510-69652-15	09/07/2011 06:16	86198	1.0110		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Instrument ID: MICPMSB Method: 6020

Start Date: 09/07/2011 13:01 End Date: 09/07/2011 14:48

Lab Sample ID	D / F	T y p e	Time	Analytes															
				P b															
ZZZZZZ			13:01																
ZZZZZZ			13:04																
ZZZZZZ			13:07																
ZZZZZZ			13:10																
ZZZZZZ			13:12																
ZZZZZZ			13:15																
ICV 510-86249/7	1		13:18	X															
ICB 510-86249/8	1		13:21	X															
ICSA 510-86249/9	1		13:24	X															
ICSAB 510-86249/10	1		13:26	X															
RINSE 510-86249/11			13:29																
RINSE 510-86249/12			13:32																
MB 510-86198/1-A ^5	5	T	13:35	X															
LCS 510-86198/2-A ^5	5	T	13:38	X															
510-69652-1	5	T	13:40	X															
510-69652-2	5	T	13:43	X															
510-69652-3	5	T	13:46	X															
510-69652-4	5	T	13:49	X															
CCV 510-86249/19	1		13:52	X															
CCB 510-86249/20	1		13:55	X															
510-69652-5	5	T	13:57	X															
510-69652-6	5	T	14:00	X															
510-69652-7	5	T	14:03	X															
510-69652-8	5	T	14:06	X															
510-69652-9	5	T	14:09	X															
510-69652-10	5	T	14:12	X															
510-69652-11	5	T	14:14	X															
510-69652-11 MS	5	T	14:17	X															
510-69652-11 MSD	5	T	14:20	X															
510-69652-11 SD	25	T	14:23	X															
CCV 510-86249/31	1		14:26	X															
CCB 510-86249/32	1		14:28	X															
510-69652-11 PDS	5	T	14:31	X															
510-69652-12	5	T	14:34	X															
510-69652-13	5	T	14:37	X															
510-69652-14	5	T	14:40	X															
510-69652-15	5	T	14:43	X															
CCV 510-86249/38	1		14:45	X															
CCB 510-86249/39	1		14:48	X															

Prep Types
T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

ICP-MS Instrument ID: MICPMSB Start Date: 09/07/2011 End Date: 09/07/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Tb	Q
ICV 510-86249/7	13:18			100		99		99		100	
ICB 510-86249/8	13:21			100		99		99		100	
ICSA 510-86249/9	13:24			99		99		93		98	
ICSAB 510-86249/10	13:26			101		100		93		98	
MB 510-86198/1-A ^5	13:35			100		99		96		99	
LCS 510-86198/2-A	13:38			109		102		96		99	
510-69652-1	13:40			108		100		94		99	
510-69652-2	13:43			107		100		93		99	
510-69652-3	13:46			105		100		93		97	
510-69652-4	13:49			105		101		95		96	
CCV 510-86249/19	13:52			106		104		104		103	
CCB 510-86249/20	13:55			105		103		103		104	
510-69652-5	13:57			111		103		97		99	
510-69652-6	14:00			109		103		97		100	
510-69652-7	14:03			106		101		95		99	
510-69652-8	14:06			106		100		92		96	
510-69652-9	14:09			107		100		94		97	
510-69652-10	14:12			106		102		94		99	
510-69652-11	14:14			103		100		93		97	
510-69652-11 MS	14:17			101		97		90		94	
510-69652-11 MSD	14:20			103		100		92		95	
510-69652-11 SD	14:23			104		103		99		100	
CCV 510-86249/31	14:26			104		103		102		100	
CCB 510-86249/32	14:28			103		100		100		101	
510-69652-11 PDS	14:31			99		96		93		94	
510-69652-12	14:34			107		97		90		92	
510-69652-13	14:37			104		98		92		96	
510-69652-14	14:40			110		101		96		97	
510-69652-15	14:43			106		100		93		98	
CCV 510-86249/38	14:45			110		107		108		106	
CCB 510-86249/39	14:48			103		101		98		99	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

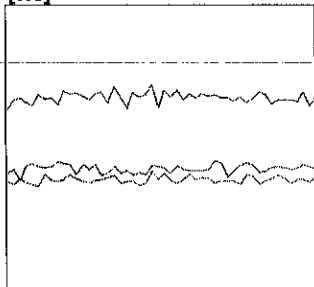
ICP-MS Instrument ID: MICPMSB Start Date: 09/07/2011 End Date: 09/07/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ICV 510-86249/7	13:18	100									
ICB 510-86249/8	13:21	99									
ICSA 510-86249/9	13:24	92									
ICSAB 510-86249/10	13:26	92									
MB 510-86198/1-A ^5	13:35	97									
LCS 510-86198/2-A	13:38	95									
510-69652-1	13:40	94									
510-69652-2	13:43	94									
510-69652-3	13:46	93									
510-69652-4	13:49	95									
CCV 510-86249/19	13:52	101									
CCB 510-86249/20	13:55	103									
510-69652-5	13:57	95									
510-69652-6	14:00	96									
510-69652-7	14:03	94									
510-69652-8	14:06	93									
510-69652-9	14:09	94									
510-69652-10	14:12	95									
510-69652-11	14:14	94									
510-69652-11 MS	14:17	89									
510-69652-11 MSD	14:20	90									
510-69652-11 SD	14:23	100									
CCV 510-86249/31	14:26	99									
CCB 510-86249/32	14:28	99									
510-69652-11 PDS	14:31	91									
510-69652-12	14:34	89									
510-69652-13	14:37	91									
510-69652-14	14:40	95									
510-69652-15	14:43	93									
CCV 510-86249/38	14:45	103									
CCB 510-86249/39	14:48	99									

Tune Report

Batch Folder C:\Agilent\ICPMH\1\DATA\090711tune.b
Report Comment
Instrument Name G3281A JP11040848

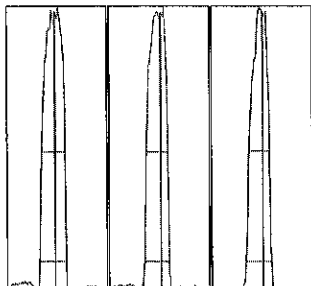
[He]



Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)	Res. Ratio (Actual)	Res. Ratio (Required)	Res. Ratio (Flag)
59	5000	2136				NaN	-	
89	5000	1939				NaN	-	
205	5000	3392				NaN	-	

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)	Background (Actual)	Background (Required)	Background (Flag)
59	3.50					
89	3.16					
205	2.76					

Ratio (oxide) 156/140 0.233 %
Integration Time [sec] 0.1 **Sampling Period [sec]** 0.3102



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-X% (Actual)	W-X% (Required)	W-X% (Flag)
59	2113.84	58.950	58.9 - 59.1		0.719	0.806	0.900	
89	1921.27	89.050	88.9 - 89.1		0.645	0.742	0.900	
205	3427.00	205.000	204.9 - 205.1		0.617	0.773	0.900	

X = 10 **Integration Time [sec]** 0.1 **Acquisition Time [sec]** 22.56 Y Axis Linear

Tune Parameters

Plasma Paramters

RF Power	1550 W	Carrier Gas	0.50 L/min	S/C Temp	2 °C
RF Matching	1.80 V	Optional Gas	0.0 %	Makeup/Dilution Gas	0.60 L/min
Smpl Depth	10.0 mm	Nebulizer Pump	0.10 rps	Gas Switch	DilutionGas

Lenses Parameters

Extract 1	-8.0 V	Omega Lens	8.9 V	Deflect	2.4 V
Extract 2	-195.0 V	Cell Entrance	-36 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-64 V		

Cell Parameters

OctP Bias	-18.0 V	He Flow	3.5 mL/min	Energy Discrimination	5.0 V
OctP RF	180 V	H2 Flow	0.0 mL/min		
Use Gas	true	3rd Gas Flow	0 %		

[no gas]

Tune Report

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)	Res. Ratio (Actual)	Res. Ratio (Required)	Res. Ratio (Flag)
7	5000	2288	2288.10	5000.00	[F]	0.21	0.2 - 1	
89	20000	11098	11097.86	10000.00		1.00	1 - 1	
205	10000	5750	5749.62	10000.00	[F]	0.52	0.5 - 1.5	
Mass	RSD%	RSD%	RSD%	Background	Background	Background		
	(Actual)	(Required)	(Flag)	(Actual)	(Required)	(Flag)		
7	3.44	5.00		3.90				
89	2.48	5.00		5.40				
205	2.29	5.00		17.40				
Ratio (oxide)	156/140	0.595 %		Ratio (2+)	70/140	7.043 %		

Integration Time [sec] 0.1 Sampling Period [sec] 0.3112

Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-X% (Actual)	W-X% (Required)	W-X% (Flag)
7	2319.42	7.000	6.9 - 7.1		0.726	0.827	0.900	
89	10973.49	88.950	88.9 - 89.1		0.644	0.760	0.900	
205	5793.43	204.950	204.9 - 205.1		0.627	0.794	0.900	

X = 10 Integration Time [sec] 0.1 Acquisition Time [sec] 22.76 Y Axis Linear

Tune Parameters

Plasma Parameters

RF Power	1550 W	Carrier Gas	0.50 L/min	S/C Temp	2 °C
RF Matching	1.80 V	Optional Gas	0.0 %	Makeup/Dilution Gas	0.60 L/min
Smpl Depth	10.0 mm	Nebulizer Pump	0.10 rps	Gas Switch	DilutionGas

Lenses Parameters

Extract 1	-8.0 V	Omega Lens	8.9 V	Deflect	15.0 V
Extract 2	-195.0 V	Cell Entrance	-34 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-58 V		

Cell Parameters

OctP Bias	-8.0 V	He Flow	0.0 mL/min	Energy Discrimination	5.0 V
OctP RF	180 V	H2 Flow	0.0 mL/min		
Use Gas	false	3rd Gas Flow	0 %		

Batch Summary Report

Batch Folder: C:\Agilent\JCPMH\1\DATA\090711b6020.b\
 Analysis File: 090711b6020.batch.bin
 Tune Step: #1 He

Rict	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1	9/7/2011 1:01:39 PM	001CALB.d	blk	CalBlk	1	1.0000
2	9/7/2011 1:04:27 PM	002CALB.d	blk	CalBlk	1	1.0000
3	9/7/2011 1:07:15 PM	003CALS.d	0.1	CalStd	2	1.0000
4	9/7/2011 1:10:04 PM	004CALS.d	1	CalStd	3	1.0000
5	9/7/2011 1:12:52 PM	005CALS.d	10	CalStd	4	1.0000
6	9/7/2011 1:15:40 PM	006CALS.d	100	CalStd	5	1.0000
7	9/7/2011 1:18:26 PM	007 ICV.d	ICV	ICV		1.0000
8	9/7/2011 1:21:14 PM	008 ICB.d	ICB	ICB		1.0000
9	9/7/2011 1:24:01 PM	009SMPL.d	icsa	Sample		1.0000
10	9/7/2011 1:26:48 PM	010SMPL.d	icsab	Sample		1.0000
11	9/7/2011 1:29:35 PM	011SMPL.d	rinse	Sample		1.0000
12	9/7/2011 1:32:23 PM	012SMPL.d	rinse	Sample		1.0000
13	9/7/2011 1:35:12 PM	013SMPL.d	MB 510-86198/1-A@5	Sample		1.0000
14	9/7/2011 1:38:02 PM	014SMPL.d	LCS 510-86198/2-A@5	Sample		1.0000
15	9/7/2011 1:40:52 PM	015SMPL.d	510-69652-A-1-A@5	Sample		1.0000
16	9/7/2011 1:43:42 PM	016SMPL.d	510-69652-A-2-A@5	Sample		1.0000
17	9/7/2011 1:46:32 PM	017SMPL.d	510-69652-A-3-A@5	Sample		1.0000
18	9/7/2011 1:49:22 PM	018SMPL.d	510-69652-A-4-A@5	Sample		1.0000
19	9/7/2011 1:52:17 PM	019 CCV.d	ccv	CCV		1.0000
20	9/7/2011 1:55:04 PM	020 CCB.d	ccb	CCB		1.0000
21	9/7/2011 1:57:54 PM	021SMPL.d	510-69652-A-5-A@5	Sample		1.0000
22	9/7/2011 2:00:44 PM	022SMPL.d	510-69652-A-6-A@5	Sample		1.0000
23	9/7/2011 2:03:34 PM	023SMPL.d	510-69652-A-7-A@5	Sample		1.0000
24	9/7/2011 2:06:24 PM	024SMPL.d	510-69652-A-8-A@5	Sample		1.0000
25	9/7/2011 2:09:13 PM	025SMPL.d	510-69652-A-9-A@5	Sample		1.0000
26	9/7/2011 2:12:03 PM	026SMPL.d	510-69652-A-10-A@5	Sample		1.0000
27	9/7/2011 2:14:53 PM	027SMPL.d	510-69652-A-11-A@5	Sample		1.0000

Batch Summary Report

Rict	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28	9/7/2011 2:17:43 PM	028SMPL.d	510-69652-A-11-B M\$ @5	Sample		1.0000
29	9/7/2011 2:20:33 PM	029SMPL.d	510-69652-A-11-C MSD @5	Sample		1.0000
30	9/7/2011 2:23:23 PM	030SMPL.d	510-69652-A-11-A sd @25	Sample		1.0000
31	9/7/2011 2:26:10 PM	031_CCV.d	ccv	CCV		1.0000
32	9/7/2011 2:28:58 PM	032_CCB.d	ccb	CCB		1.0000
33	9/7/2011 2:31:47 PM	033SMPL.d	510-69652-A-11-A pds @5 gc7-23 1:200	Sample		1.0000
34	9/7/2011 2:34:37 PM	034SMPL.d	510-69652-A-12-A @5	Sample		1.0000
35	9/7/2011 2:37:27 PM	035SMPL.d	510-69652-A-13-A @5	Sample		1.0000
36	9/7/2011 2:40:17 PM	036SMPL.d	510-69652-A-14-A @5	Sample		1.0000
37	9/7/2011 2:43:07 PM	037SMPL.d	510-69652-A-15-A @5	Sample		1.0000
38	9/7/2011 2:45:54 PM	038_CCV.d	ccv	CCV		1.0000
39	9/7/2011 2:48:42 PM	039_CCB.d	ccb	CCB		1.0000

Batch Summary Report

Analyte Table

Sample Name	7 Li [He]	9 Be [He]	11 B [He]	23 Na [He]	24 Mg [He]	27 Al [He]	28 Si [He]	31 P [He]	39 K [He]
	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
1 blk	<0.000000	0.000000	<0.000000	0.104316	<0.000000	0.010611	0.260824	1.039410	0.188101
2 blk	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3 0.1	0.143844	0.042721	<0.000000	3.449991	2.113451	2.565978	<0.000000	4.456926	3.920879
4 1	0.892055	1.163292	0.990322	22.023500	20.346428	21.244425	24.719977	4.860918	19.832106
5 10	10.070937	10.184519	8.848330	216.736291	208.537638	216.544787	206.805357	14.254736	214.191835
6 100	99.993942	99.979972	100.115468	1998.304686	1999.142658	2099.342611	1999.274392	99.531560	1998.580575
7 ICV	48.967172	55.788597	1027.898606	1050.888448	1030.462306	1063.182038	998.799890	56.519149	542.712467
8 ICB	0.310600	0.000000	22.622301	<0.000000	<0.000000	0.423867	0.422425	0.368342	<0.000000
9 icsa	0.253425	0.000000	17.652731	5.98074E+04	2.34664E+04	2.46719E+04	15.413089	2.38471E+04	2.34306E+04
10 icsab	0.084910	0.000000	4.934519	5.91288E+04	2.30899E+04	2.47039E+04	5.191073	2.34957E+04	2.31445E+04
11 rinse	0.007140	0.129832	4.647720	289.137965	12.740351	23.700612	5.180821	21.588538	17.110193
12 rinse	0.168858	0.124668	2.282348	253.675166	9.948150	20.252706	<0.000000	15.218324	5.711596
13 MB 510-86198/...	<0.000000	0.000000	30.334192	49.616962	25.135335	22.093737	24.952139	18.666802	28.737667
14 LCS 510-86198...	27.260150	250.559778	402.629703	817.817715	8948.584083	2.85956E+04	4940.017877	1759.433776	8836.366631
15 510-69652-A-1-...	27.951453	5.838364	54.597663	950.475079	3.51758E+04	3.01390E+04	3523.158745	694.958908	2431.577018
16 510-69652-A-2-...	20.705019	1.567664	13.807650	99.965904	7709.544098	2.39824E+04	2241.972632	855.009915	1494.351310
17 510-69652-A-3-...	14.893520	2.116345	15.100643	166.738381	4863.352280	2.50035E+04	3698.160736	1475.886724	2008.196068
18 510-69652-A-4-...	12.093679	1.212927	9.693634	183.056477	3435.542397	1.88140E+04	4503.878355	1278.211925	1847.972789
19 ccv	47.109697	54.779459	987.070808	1051.405069	999.374253	1048.331351	973.459013	52.939043	530.070166
20 ccb	0.454167	0.000000	21.335083	1.350841	0.258946	1.905235	<0.000000	1.040154	<0.000000
21 510-69652-A-5-...	15.848840	0.951098	19.318110	148.696471	4375.381239	2.71176E+04	4073.020614	896.908749	2005.115224
22 510-69652-A-6-...	18.858404	2.014314	19.068300	346.646918	9616.378880	2.30585E+04	4435.435059	885.952598	2231.876534
23 510-69652-A-7-...	16.971200	2.007772	30.011279	200.313057	8561.576892	2.31443E+04	3481.928274	782.998793	1703.992825
24 510-69652-A-8-...	17.266150	1.117202	11.770852	142.498694	4177.527585	2.72629E+04	5663.206545	1336.845182	2117.123876
25 510-69652-A-9-...	20.532453	1.204877	12.223886	110.326848	7339.090731	2.09866E+04	2213.552356	722.218914	1402.794645
26 510-69652-A-1-...	12.883961	1.037139	9.612283	102.270191	9061.207409	1.07160E+04	1808.857237	407.354061	854.050606
27 510-69652-A-1-...	13.533646	0.857230	11.563058	84.791262	7996.111255	1.03704E+04	1874.623655	472.886830	918.698980
28 510-69652-A-1-...	208.823625	216.505518	408.452314	2.03748E+04	2.28722E+04	1.31806E+04	4234.241638	663.079924	2.40877E+04
29 510-69652-A-1-...	200.733373	207.729450	410.092492	1.99269E+04	2.26752E+04	1.37705E+04	4527.233987	837.234140	2.37733E+04
30 510-69652-A-1-...	3.530452	0.247770	13.380463	38.941892	2125.796137	2762.055023	479.709078	121.582353	248.639351

Batch Summary Report

Analyte Table

Sample Name	7 Li [He]	9 Be [He]	11 B [He]	23 Na [He]	24 Mg [He]	27 Al [He]	28 Si [He]	31 P [He]	39 K [He]
	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
31 ccv	50.202981	56.508271	1034.718796	1068.471022	1052.953536	1075.177190	1021.541238	54.069944	554.336595
32 ccb	0.266880	0.020817	23.375125	1.628354	0.661505	1.428130	<0.000000	2.201998	<0.000000
33 510-69652-A-1...	508.690896	542.615497	562.831120	613.917802	8479.571953	1.10054E+04	2036.756564	942.966844	6163.390981
34 510-69652-A-1...	27.465511	2.554797	25.698700	148.631142	6999.043391	5.14826E+04	1694.103612	861.001084	2277.625537
35 510-69652-A-1...	22.245720	2.364066	21.964041	129.759539	6645.844116	2.99565E+04	3549.054100	891.908038	1826.576555
36 510-69652-A-1...	23.699184	1.912253	17.350401	92.046083	5927.420189	4.28540E+04	2619.047431	889.118513	2071.667263
37 510-69652-A-1...	13.726858	0.806485	11.800569	91.890984	7215.126633	1.12593E+04	1618.217039	433.616762	845.170795
38 ccv	46.781528	52.322942	965.854816	1001.659526	965.726982	1008.749937	934.296011	45.741256	516.277763
39 ccb	<0.000000	0.000000	18.401680	<0.000000	0.382112	1.619220	<0.000000	<0.000000	<0.000000

Batch Summary Report

Analyte Table

Sample Name	43 Ca [He] Conc. [ppb]	44 Ca [He] Conc. [ppb]	47 Ti [He] Conc. [ppb]	51 V [He] Conc. [ppb]	52 Cr [He] Conc. [ppb]	55 Mn [He] Conc. [ppb]	56 Fe [He] Conc. [ppb]	59 Co [He] Conc. [ppb]	60 Ni [He] Conc. [ppb]
1 blk	5.880292	0.148466	0.010490	<0.000000	0.017126	<0.000000	0.669590	0.000331	0.029143
2 blk	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3 0.1	37.745099	48.356008	0.198157	0.077619	0.101367	0.204968	2.121503	0.106917	0.113007
4 1	16.762826	32.720291	1.131622	0.993619	1.011803	0.959204	20.135792	0.996637	1.008940
5 10	631.349882	674.630697	10.251838	10.184852	10.154049	11.104127	212.325157	10.279349	10.340701
6 100	1956.861638	1952.363371	99.973402	99.981601	99.984476	99.889890	1998.766005	99.972092	99.965828
7 ICV	982.926482	1001.897775	51.835068	53.988305	51.015528	54.029177	1044.513167	54.716736	53.466587
8 ICB	<0.000000	5.418460	0.083472	0.071866	0.009745	0.009645	0.156892	0.009297	0.007453
9 icsa	5.43994E+04	5.88571E+04	491.947724	0.135436	0.644617	0.185531	5.96574E+04	0.027129	0.334050
10 icsab	5.45792E+04	5.73122E+04	491.054864	198.495313	187.339084	195.191881	5.85189E+04	188.649336	182.337204
11 rinse	92.367990	98.124251	0.210869	0.086220	0.180176	4.417433	319.685814	0.093878	0.145752
12 rinse	82.042933	85.344606	0.151896	0.090573	0.137576	4.018982	284.278368	0.067192	0.117194
13 MB 510-86198/...	1188.293416	1334.047682	0.396202	0.117983	0.173090	0.942037	7.141377	0.030024	0.164558
14 LCS 510-86198...	1.85011E+04	1.99306E+04	589.056432	216.694498	265.318713	1064.352074	4.34336E+04	392.933785	225.915807
15 510-69652-A-1-...	1.18608E+05	1.22649E+05	702.333249	52.913564	45.803788	3409.199692	3.76804E+04	12.352856	36.879532
16 510-69652-A-2-...	4555.215818	4826.285131	608.073751	63.977882	51.137793	1318.994374	3.90747E+04	17.342148	41.571760
17 510-69652-A-3-...	9376.773680	1.03253E+04	541.611761	85.929709	33.621333	1952.851448	7.06142E+04	15.756832	37.151283
18 510-69652-A-4-...	8450.707476	9234.650903	487.043906	55.794954	28.896752	1950.220861	3.02840E+04	13.194581	23.861896
19 ccv	1065.853699	1005.796191	51.479017	53.540169	50.793912	53.310358	1023.626249	54.157090	53.513151
20 ccb	<0.000000	6.358201	0.109820	0.116565	0.003149	0.124720	2.386090	0.011438	0.016412
21 510-69652-A-5-...	7283.696352	7846.595097	560.370211	69.421174	35.383630	1035.472752	3.63261E+04	14.728661	30.222597
22 510-69652-A-6-...	2.41959E+04	2.61807E+04	617.937336	54.748242	34.412368	1524.592341	3.49519E+04	13.292188	29.342674
23 510-69652-A-7-...	1.70501E+04	1.87197E+04	569.098751	57.808208	34.024793	1324.758297	4.79491E+04	14.004116	32.609689
24 510-69652-A-8-...	4841.308111	5328.780266	579.292776	72.325215	35.150062	2940.485247	3.84121E+04	19.880163	27.033370
25 510-69652-A-9-...	9840.248175	1.06699E+04	542.800216	50.098091	28.309028	1464.709543	3.34510E+04	12.651820	32.473271
26 510-69652-A-1-...	1.14628E+04	1.25443E+04	372.752314	29.419425	19.839748	877.268496	2.10262E+04	18.972651	43.204231
27 510-69652-A-1-...	1.11655E+04	1.22209E+04	393.650688	29.393219	16.382038	801.473594	2.16241E+04	10.022015	28.927517
28 510-69652-A-1-...	2.35129E+04	2.47291E+04	629.749779	242.677780	218.710529	916.160533	2.16121E+04	214.901501	230.327179
29 510-69652-A-1-...	2.21751E+04	2.33631E+04	726.804132	247.346462	217.829487	1268.386959	3.67521E+04	212.894639	233.916616
30 510-69652-A-1-...	2495.916773	2735.092309	88.930414	7.733764	7.108379	214.142000	5631.444653	2.652725	9.693883

Batch Summary Report

Analyte Table

Sample Name	43 Ca [He]		44 Ca [He]		47 Ti [He]		51 V [He]		52 Cr [He]		55 Mn [He]		56 Fe [He]		59 Co [He]		60 Ni [He]	
	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
31 ccv	1017.644824	1006.168982	53.052934	55.020542	51.572580	54.152248	1048.973861	54.152248	54.152248	54.152248	54.152248	54.152248	1048.973861	55.068688	55.068688	54.635848		
32 ccb	19.824825	7.632572	0.101530	0.159369	0.021484	0.075414	1.501607	0.075414	0.075414	0.075414	0.075414	0.075414	1.501607	0.011708	0.011708	0.017389		
33 510-69652-A-1...	1.21127E+04	1.20471E+04	868.555598	559.486437	530.781496	1340.244424	2.21581E+04	1340.244424	1340.244424	1340.244424	1340.244424	1340.244424	2.21581E+04	541.127908	541.127908	558.420674		
34 510-69652-A-1...	5458.074055	6192.370295	611.198837	95.138740	54.302881	1384.457797	5.32624E+04	1384.457797	1384.457797	1384.457797	1384.457797	1384.457797	5.32624E+04	22.261437	22.261437	47.922271		
35 510-69652-A-1...	8493.584626	9105.761305	588.685097	71.882359	40.165795	1746.527341	4.84682E+04	1746.527341	1746.527341	1746.527341	1746.527341	1746.527341	4.84682E+04	18.864875	18.864875	41.078112		
36 510-69652-A-1...	5179.244471	5512.431327	661.576093	83.674764	45.974755	1238.045463	4.75713E+04	83.674764	83.674764	83.674764	83.674764	83.674764	4.75713E+04	16.000422	16.000422	38.412460		
37 510-69652-A-1...	9511.363135	1.02205E+04	347.134381	27.902440	20.266510	821.419868	2.11936E+04	27.902440	27.902440	27.902440	27.902440	27.902440	2.11936E+04	13.523816	13.523816	40.243093		
38 ccv	972.848829	960.367933	50.969616	51.669711	48.794148	50.772511	986.502425	51.669711	51.669711	51.669711	51.669711	51.669711	986.502425	51.816705	51.816705	50.784607		
39 ccb	<0.000000	8.410333	0.061597	0.245522	0.008984	0.114366	1.772582	0.245522	0.245522	0.245522	0.245522	0.245522	1.772582	0.008305	0.008305	0.002780		

Batch Summary Report

Analyte Table

Sample Name	63 Cu [He]		66 Zn [He]		75 As [He]		78 Se [He]		88 Sr [He]		95 Mo [He]		107 Ag [He]		111 Cd [He]		118 Sn [He]	
	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
1 blk	<0.000000	0.068879	0.003886	0.024579	<0.000000	<0.000000	0.024579	<0.000000	<0.000000	<0.000000	<0.000000	<0.000000	<0.000000	<0.000000	<0.000000	<0.000000	<0.000000	0.004962
2 blk	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3 0.1	0.106012	1.496578	0.115443	0.293749	0.104918	0.088431	0.088431	0.088431	0.104918	0.088431	0.088431	0.088431	0.091753	0.082748	0.082748	0.082748	0.119139	0.119139
4 1	1.002048	1.413202	0.955161	1.503402	0.989545	1.005580	1.005580	1.005580	0.989545	1.005580	1.005580	1.005580	0.977240	1.004245	1.004245	1.004245	1.059888	1.059888
5 10	10.476992	28.682833	10.307908	10.072777	10.589845	10.106692	10.106692	10.072777	10.589845	10.106692	10.106692	10.106692	10.225828	10.098595	10.098595	10.098595	10.558618	10.558618
6 100	99.952274	98.126188	99.969642	99.987495	99.941115	99.989287	99.989287	99.987495	99.941115	99.989287	99.989287	99.989287	99.977653	99.990115	99.990115	99.990115	99.943520	99.943520
7 ICB	53.981701	48.837721	54.150543	52.817267	54.029553	55.977821	55.977821	52.817267	54.029553	55.977821	55.977821	55.977821	51.399386	54.509097	54.509097	54.509097	53.694454	53.694454
8 ICB	0.036175	0.108727	0.041028	<0.000000	0.005052	0.112421	0.112421	<0.000000	0.005052	0.112421	0.112421	0.030259	0.047398	0.002887	0.002887	0.002887	0.255610	0.255610
9 icsa	0.275579	1.319903	0.079049	0.030557	0.307498	0.307498	0.030557	0.030557	0.307498	0.307498	0.307498	0.047398	0.047398	0.357900	0.357900	0.357900	0.077321	0.077321
10 icsab	189.196161	84.528642	101.500157	96.328638	0.307162	536.144123	536.144123	96.328638	0.307162	536.144123	536.144123	49.499234	144.272977	101.800262	101.800262	101.800262	0.045310	0.045310
11 rinse	0.346565	2.558392	0.095870	<0.000000	0.350490	0.633257	0.633257	<0.000000	0.350490	0.633257	0.633257	0.108261	0.081347	0.081347	0.081347	0.169576	0.169576	0.169576
12 rinse	0.238514	2.084135	0.081120	<0.000000	0.315355	0.263957	0.263957	<0.000000	0.315355	0.263957	0.263957	0.088101	0.041634	0.041634	0.041634	0.157442	0.157442	0.157442
13 MB 510-86198/...	0.621465	55.088809	0.090628	0.124275	0.691899	0.133096	0.133096	0.124275	0.691899	0.133096	0.133096	0.084247	0.007557	0.007557	0.007557	5.250104	5.250104	5.250104
14 LCS 510-86198...	301.886743	495.939324	374.293443	351.441313	302.095180	183.617730	183.617730	351.441313	302.095180	183.617730	183.617730	144.272977	262.271936	3.805686	3.805686	3.805686	29.293002	29.293002
15 510-69652-A-1...	80.123850	386.688672	22.958792	5.021357	223.412076	5.145641	5.145641	5.021357	223.412076	5.145641	5.145641	0.929948	0.275023	0.275023	0.275023	5.957578	5.957578	5.957578
16 510-69652-A-2...	29.812991	109.227648	13.748261	2.788155	26.053547	1.742480	1.742480	2.788155	26.053547	1.742480	1.742480	0.110708	0.843846	0.843846	0.843846	11.204539	11.204539	11.204539
17 510-69652-A-3...	38.780774	269.871527	18.794734	3.459977	34.053074	1.612795	1.612795	3.459977	34.053074	1.612795	1.612795	0.659795	0.721273	0.721273	0.721273	10.504779	10.504779	10.504779
18 510-69652-A-4...	29.310859	287.577474	13.596765	3.021031	54.857847	54.558860	54.558860	3.021031	54.857847	54.558860	54.558860	52.032481	53.704684	53.704684	53.704684	52.191621	52.191621	52.191621
19 ccv	53.624626	48.404658	54.334929	52.088606	0.008662	0.107372	0.107372	52.088606	0.008662	0.107372	0.107372	0.025920	0.004307	0.004307	0.004307	0.220973	0.220973	0.220973
20 ccb	<0.000000	0.185293	0.034977	0.002777	26.118898	2.644047	2.644047	0.002777	26.118898	2.644047	2.644047	0.122809	0.282490	0.282490	0.282490	8.717925	8.717925	8.717925
21 510-69652-A-5...	31.349477	220.730554	12.920609	2.644047	65.969461	2.676232	2.676232	2.644047	65.969461	2.676232	2.676232	0.145814	1.021913	1.021913	1.021913	29.791190	29.791190	29.791190
22 510-69652-A-6...	45.606034	298.131724	13.613679	2.785800	58.706225	2.885290	2.885290	2.785800	58.706225	2.885290	2.885290	0.373149	1.146531	1.146531	1.146531	14.742569	14.742569	14.742569
23 510-69652-A-7...	44.300588	253.569504	17.361371	2.656854	47.590698	3.218772	3.218772	2.656854	47.590698	3.218772	3.218772	0.122997	0.574930	0.574930	0.574930	7.115067	7.115067	7.115067
24 510-69652-A-8...	29.438072	154.026145	15.786102	3.302947	34.968583	2.840825	2.840825	3.302947	34.968583	2.840825	2.840825	0.180947	2.584183	2.584183	2.584183	16.228327	16.228327	16.228327
25 510-69652-A-9...	63.001667	574.755325	15.398062	2.699878	14.326957	1.236113	1.236113	2.699878	14.326957	1.236113	1.236113	0.101403	3.606289	3.606289	3.606289	5.501198	5.501198	5.501198
26 510-69652-A-1...	22.989891	934.741409	8.677501	1.945586	14.132480	1.508074	1.508074	1.945586	14.132480	1.508074	1.508074	0.078449	1.181804	1.181804	1.181804	8.584836	8.584836	8.584836
27 510-69652-A-1...	22.319434	285.875942	10.490260	1.781581	247.749697	238.711068	238.711068	1.781581	247.749697	238.711068	238.711068	413.426985	223.341531	223.341531	223.341531	227.833154	227.833154	227.833154
28 510-69652-A-1...	224.309549	508.241506	219.219921	200.589935	751.895857	232.794477	232.794477	200.589935	751.895857	232.794477	232.794477	414.335105	216.948646	216.948646	216.948646	225.848448	225.848448	225.848448
29 510-69652-A-1...	226.504438	563.388655	219.054207	194.573291	3.456874	0.603112	0.603112	194.573291	3.456874	0.603112	0.603112	0.142548	0.414500	0.414500	0.414500	2.629414	2.629414	2.629414
30 510-69652-A-1...	6.118361	82.776716	2.792632	0.603112	0.603112	0.603112	0.603112	0.603112	0.603112	0.603112	0.603112	0.142548	0.414500	0.414500	0.414500	2.629414	2.629414	2.629414

Batch Summary Report

Analyte Table

Sample Name	63 Cu [He]		66 Zn [He]		75 As [He]		78 Se [He]		88 Sr [He]		95 Mo [He]		107 Ag [He]		111 Cd [He]		118 Sn [He]	
	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
31 ccv	54.472452	49.212571	55.082521	53.521899	55.213854	56.228798	52.092621	55.411943	53.883774									
32 ccb	<0.000000	0.290364	0.082705	0.177206	0.006140	0.092720	0.036075	0.003901	0.244189									
33 510-69652-A-1...	548.218740	747.246426	553.434513	520.839406	581.455987	590.235697	512.712531	553.566264	581.551534									
34 510-69652-A-1...	39.923125	194.166644	21.985536	4.581033	39.857442	3.868261	1.182133	1.029996	8.769303									
35 510-69652-A-1...	73.270090	484.933059	21.083722	3.103957	33.874532	4.431231	0.955949	2.503059	26.893342									
36 510-69652-A-1...	39.187696	194.086310	18.848811	3.162469	34.627865	2.928864	0.171104	0.691039	10.533276									
37 510-69652-A-1...	30.400485	957.598942	10.172841	2.485378	13.857728	1.232521	0.186740	3.706883	5.736642									
38 ccv	51.124847	47.234515	52.667595	51.315820	52.791415	52.560437	49.805305	50.855024	50.230869									
39 ccb	<0.000000	0.376282	0.070459	0.239975	<0.000000	0.123248	0.023854	<0.000000	0.246740									

Batch Summary Report

Analyte Table

Sample Name	121 Sb [He]	137 Ba [He]	205 Tl [He]	206 [Pb] [H...]	207 [Pb] [H...]	208 Pb [He]
	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
1 blk	0.006785	0.014021	0.002706	0.009693	<0.000000	0.008093
2 blk	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3 0.1	0.117695	0.095898	0.091977	0.106535	0.089102	0.107789
4 1	1.014330	0.935780	0.941340	0.974467	1.014409	1.019641
5 10	9.889407	10.015746	9.825787	10.168976	10.102780	10.130382
6 100	100.010898	99.999072	100.018016	99.983351	99.989589	99.986758
7 ICV	54.360405	54.095549	53.232124	51.558942	54.913131	53.519464
8 ICB	0.022551	0.015642	0.050662	0.010123	0.007484	0.014123
9 icsa	0.292043	0.101079	0.020726	0.074273	0.066358	0.068695
10 icsab	0.231146	0.047494	0.006655	0.062781	0.056451	0.070773
11 rinse	0.118117	0.166796	0.090433	0.064409	0.072337	0.079535
12 rinse	0.094341	0.210951	0.073056	0.065065	0.058005	0.068169
13 MB 510-86198/...	0.023806	0.332726	0.042950	0.283255	0.268132	0.287504
14 LCS 510-86198...	358.304641	726.463297	521.526783	398.565589	399.233059	393.408818
15 510-69652-A-1-...	6.488032	474.856603	1.807517	463.219635	443.396937	441.077095
16 510-69652-A-2-...	0.520211	173.260713	0.424797	37.699186	35.328632	36.835102
17 510-69652-A-3-...	0.876432	370.275114	0.423284	90.121387	85.868291	88.250935
18 510-69652-A-4-...	0.724843	403.292895	0.504178	270.346654	249.770926	253.113137
19 ccv	53.996789	52.600943	52.780486	50.854786	54.980924	53.243261
20 ccb	0.001989	0.093314	0.036536	0.039433	0.015363	0.030140
21 510-69652-A-5-...	0.538421	237.529829	0.449205	44.784627	42.591609	43.901250
22 510-69652-A-6-...	1.703923	577.543569	0.419569	183.290739	172.682718	177.199040
23 510-69652-A-7-...	2.179463	260.445800	0.381018	171.371825	159.923914	164.900326
24 510-69652-A-8-...	0.906209	597.383186	0.524944	85.726566	82.210284	84.176482
25 510-69652-A-9-...	2.124109	316.583118	0.449167	252.602182	246.880636	246.762768
26 510-69652-A-1-...	1.896074	125.927515	0.163471	22.998313	21.681471	22.305353
27 510-69652-A-1-...	1.394843	136.703353	0.252718	48.306287	46.220843	47.535740
28 510-69652-A-1-...	157.135270	567.659315	220.103710	268.277973	275.442230	266.774214
29 510-69652-A-1-...	151.779117	572.114889	215.819331	269.709547	276.334185	268.158948
30 510-69652-A-1-...	0.597814	36.419964	0.183026	12.458205	12.094561	12.329189

Batch Summary Report

Analyte Table

	121 Sb [He]	137 Ba [He]	205 Tl [He]	206 [Pb] [H...]	207 [Pb] [H...]	208 Pb [He]
Sample Name	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]	Conc. [ppb]
31 ccv	54.902863	53.783134	53.825899	52.003646	55.786243	54.299489
32 ccb	0.035398	0.027270	0.045400	0.025810	0.008986	0.033113
33 510-69652-A-1...	536.726459	695.181058	551.899525	592.744123	629.336081	600.828367
34 510-69652-A-1...	3.668492	381.187191	1.180721	64.642702	61.092556	63.256624
35 510-69652-A-1...	2.738147	365.214394	0.605049	307.804200	299.602490	294.561044
36 510-69652-A-1...	1.425217	311.899432	0.583210	258.423837	244.855232	247.557888
37 510-69652-A-1...	2.334004	120.380183	0.173826	24.636522	23.717196	24.281881
38 ccv	51.622783	50.841707	51.543399	50.176373	53.481378	52.180258
39 ccb	0.077255	0.034370	0.036571	0.042811	0.020589	0.035340

Batch Summary Report

ISTD Table

Sample Name	6 Li-6 In...	45 Sc (S...	72 Ge I...	89 Y - 89...	103 Rh (...)	115 In I...	159 Tb (...)	209 Bi I...
	Recover...	Recover...	Recover...	Recover...	Recover...	Recover...	Recover...	Recover...
1 blk	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 blk		100.0	100.0		100.0	100.0	100.0	100.0
3 0.1		100.2	98.3		99.7	100.6	100.2	99.3
4 1		99.8	99.6		100.7	99.2	98.7	98.5
5 10		99.5	100.2		98.9	101.7	100.3	98.3
6 100		100.8	100.7		100.0	99.7	102.0	98.3
7 ICB		100.2	99.4		100.1	98.8	100.3	99.7
8 ICB		99.9	98.6		99.7	98.9	99.9	99.0
9 icsa		99.2	98.7		92.3	92.9	98.2	92.3
10 icsab		101.3	99.7		93.0	93.4	98.3	92.1
11 rinse		99.4	98.2		98.2	96.4	98.1	98.3
12 rinse		108.8	106.9		107.0	104.6	106.3	105.0
13 MB 510-86198/...		99.6	98.9		101.0	95.9	98.8	97.1
14 LCS 510-86198...		109.2	101.7		97.1	95.5	98.8	94.7
15 510-69652-A-1-...		108.4	99.8		96.1	94.2	99.1	94.1
16 510-69652-A-2-...		106.8	100.0		95.3	93.3	98.5	93.8
17 510-69652-A-3-...		105.2	99.5		95.0	92.8	96.7	93.1
18 510-69652-A-4-...		104.6	101.4		95.8	94.8	96.4	95.1
19 ccv		105.7	104.3		102.3	104.2	103.3	101.1
20 ccb		105.3	103.2		104.2	102.6	104.4	102.8
21 510-69652-A-5-...		111.0	102.6		97.9	96.8	99.1	94.8
22 510-69652-A-6-...		108.7	102.5		97.3	96.8	99.9	95.8
23 510-69652-A-7-...		106.5	101.1		96.5	94.6	98.7	93.8
24 510-69652-A-8-...		105.6	100.2		94.2	91.7	96.2	92.5
25 510-69652-A-9-...		106.6	99.9		96.2	94.2	96.7	94.3
26 510-69652-A-1...		106.1	101.5		97.6	94.3	98.7	95.0
27 510-69652-A-1...		102.9	100.5		95.8	92.9	97.0	93.7
28 510-69652-A-1...		100.5	97.2		92.5	90.2	94.2	89.1
29 510-69652-A-1...		103.3	99.8		92.1	92.1	95.4	90.3
30 510-69652-A-1...		104.1	102.7		100.4	99.1	99.8	99.5

Batch Summary Report

ISTD Table

Sample Name	6 Li-6 In...	45 Sc (IS...	72 Ge I...	89 Y - 89...	103 Rh (...)	115 In I...	159 Tb (...)	209 Bi I...
	Recover...	Recover...	Recover...	Recover...	Recover...	Recover...	Recover...	Recover...
31 ccv		103.7	102.6		102.0	101.8	99.6	99.4
32 ccb		102.9	100.2		100.9	100.4	100.8	99.2
33 510-69652-A-1...		98.7	96.2		93.3	92.5	94.3	90.6
34 510-69652-A-1...		106.6	96.7		90.8	89.5	97.2	89.4
35 510-69652-A-1...		104.4	98.3		93.3	91.8	95.5	91.4
36 510-69652-A-1...		110.0	100.9		97.0	96.0	96.8	94.5
37 510-69652-A-1...		105.6	100.5		96.4	93.0	97.8	92.7
38 ccv		110.0	107.0		106.0	107.7	105.6	103.0
39 ccb		102.9	100.9		101.2	97.8	98.5	99.2

METALS BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Batch Number: 86198 Batch Start Date: 09/07/11 06:16 Batch Analyst: Nelson, Larry W

Batch Method: 3050B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MeicpPspk 00107	MELCSSOIL 00017	MEQC23 00032	MEQC7 00040
MB 510-86198/1		3050B, 6020		1.0 g	50 mL				
LCS 510-86198/2		3050B, 6020		1.0024 g	50 mL		1.0024 g		
510-69652-A-1	SB0058:TP33SW1:00020	3050B, 6020	T	1.0143 g	50 mL				
510-69652-A-2	SB0058:TP33SW2:00020	3050B, 6020	T	1.0085 g	50 mL				
510-69652-A-3	SB0058:TP33SW3:00020	3050B, 6020	T	1.0030 g	50 mL				
510-69652-A-4	SB0058:TP33SW4:00020	3050B, 6020	T	1.0074 g	50 mL				
510-69652-A-5	SB0058:TP33FLR1:025030	3050B, 6020	T	1.0189 g	50 mL				
510-69652-A-6	SB0058:TP33FLR2:025030	3050B, 6020	T	1.0086 g	50 mL				
510-69652-A-7	SB0058:TP33FLR3:025030	3050B, 6020	T	1.0148 g	50 mL				
510-69652-A-8	SB0058:TP4SW1:00020	3050B, 6020	T	1.0099 g	50 mL				
510-69652-A-9	SB0058:TP4SW2:00020	3050B, 6020	T	1.0102 g	50 mL				
510-69652-A-10	SB0058:TP4SW3:00020	3050B, 6020	T	1.0224 g	50 mL				
510-69652-A-11	SB0058:TP4SW4:00020	3050B, 6020	T	1.0135 g	50 mL				
510-69652-A-11 MS	SB0058:TP4SW4:00020	3050B, 6020	T	1.0210 g	50 mL	2 mL		0.5 mL	1 mL
510-69652-A-11 MSD	SB0058:TP4SW4:00020	3050B, 6020	T	1.0092 g	50 mL	2 mL		0.5 mL	1 mL
510-69652-A-12	SB0058:TP4FLR1:025030	3050B, 6020	T	1.0061 g	50 mL				
510-69652-A-13	SB0058:TP4FLR2:025030	3050B, 6020	T	1.0177 g	50 mL				
510-69652-A-14	SB0058:TP4FLR3:025030	3050B, 6020	T	1.0030 g	50 mL				
510-69652-A-15	Field Duplicate	3050B, 6020	T	1.0110 g	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 510-86198/1		3050B, 6020		0907-1					
LCS 510-86198/2		3050B, 6020		0907-1					
510-69652-A-1	SB0058:TP33SW1:00020	3050B, 6020	T						

METALS BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Batch Number: 86198 Batch Start Date: 09/07/11 06:16 Batch Analyst: Nelson, Larry W

Batch Method: 3050B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
510-69652-A-2	SB0058:TP33SW2:00020	3050B, 6020	T						
510-69652-A-3	SB0058:TP33SW3:00020	3050B, 6020	T						
510-69652-A-4	SB0058:TP33SW4:00020	3050B, 6020	T						
510-69652-A-5	SB0058:TP33FLR1:025030	3050B, 6020	T						
510-69652-A-6	SB0058:TP33FLR2:025030	3050B, 6020	T						
510-69652-A-7	SB0058:TP33FLR3:025030	3050B, 6020	T						
510-69652-A-8	SB0058:TP4SW1:00020	3050B, 6020	T						
510-69652-A-9	SB0058:TP4SW2:00020	3050B, 6020	T						
510-69652-A-10	SB0058:TP4SW3:00020	3050B, 6020	T						
510-69652-A-11	SB0058:TP4SW4:00020	3050B, 6020	T						
510-69652-A-11 MS	SB0058:TP4SW4:00020	3050B, 6020	T						
510-69652-A-11 MSD	SB0058:TP4SW4:00020	3050B, 6020	T						
510-69652-A-12	SB0058:TP4FLR1:025030	3050B, 6020	T						
510-69652-A-13	SB0058:TP4FLR2:025030	3050B, 6020	T						
510-69652-A-14	SB0058:TP4FLR3:025030	3050B, 6020	T						
510-69652-A-15	Field Duplicate	3050B, 6020	T						

METALS BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Batch Number: 86198 Batch Start Date: 09/07/11 06:16 Batch Analyst: Nelson, Larry W

Batch Method: 3050B Batch End Date: _____

Batch Notes	
Balance ID	P-214046002
Hydrogen peroxide lot number	MEH202-00016
Lot # of hydrochloric acid	MEMSHCL-00022
Logbook ID for diluted Nitric	MEMSHNO3-00051
Lot # of Nitric Acid	MEMSHNO3-00051
Hood ID or number	8
Hot Block ID number	C
Oven, Bath or Block Temperature 1	95.0 Degrees C
Temperature	95.0 Degrees C
ID number of the thermometer	15437
Digestion Tube/Cup Lot #	072911

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Valparaiso

Job Number: 510-69652-1

SDG No.: _____

Project: South Bend Former Studebaker Foundry

Client Sample ID	Lab Sample ID
<u>SB0058:TP33SW1:000020</u>	<u>510-69652-1</u>
<u>SB0058:TP33SW2:000020</u>	<u>510-69652-2</u>
<u>SB0058:TP33SW3:000020</u>	<u>510-69652-3</u>
<u>SB0058:TP33SW4:000020</u>	<u>510-69652-4</u>
<u>SB0058:TP33FLR1:025030</u>	<u>510-69652-5</u>
<u>SB0058:TP33FLR2:025030</u>	<u>510-69652-6</u>
<u>SB0058:TP33FLR3:025030</u>	<u>510-69652-7</u>
<u>SB0058:TP4SW1:000020</u>	<u>510-69652-8</u>
<u>SB0058:TP4SW2:000020</u>	<u>510-69652-9</u>
<u>SB0058:TP4SW3:000020</u>	<u>510-69652-10</u>
<u>SB0058:TP4SW4:000020</u>	<u>510-69652-11</u>
<u>SB0058:TP4FLR1:025030</u>	<u>510-69652-12</u>
<u>SB0058:TP4FLR2:025030</u>	<u>510-69652-13</u>
<u>SB0058:TP4FLR3:025030</u>	<u>510-69652-14</u>
<u>Field Duplicate</u>	<u>510-69652-15</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Valparaiso

Job Number: 510-69652-1

SDG Number: _____

Matrix: Solid

Instrument ID: GBALB

Method: Moisture

RL Date: 11/15/2005 14:44

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Instrument ID: GBALB Method: Moisture

Start Date: 09/06/2011 16:34 End Date: 09/06/2011 16:37

Lab Sample ID	D / F	Type	Time	Analytes															
				% S o l	M o i s t														
MB 510-86191/1	1	T	16:34	X	X														
510-69652-1	1	T	16:34	X	X														
510-69652-2	1	T	16:34	X	X														
510-69652-2 DU	1	T	16:34	X	X														
510-69652-3	1	T	16:34	X	X														
510-69652-4	1	T	16:34	X	X														
510-69652-5	1	T	16:34	X	X														
510-69652-6	1	T	16:34	X	X														
510-69652-7	1	T	16:34	X	X														
510-69652-8	1	T	16:34	X	X														
510-69652-9	1	T	16:34	X	X														
510-69652-10	1	T	16:34	X	X														
510-69652-11	1	T	16:34	X	X														
510-69652-11 MS	1	T	16:34	X	X														
510-69652-11 MSD	1	T	16:34	X	X														
510-69652-12	1	T	16:34	X	X														
510-69652-13	1	T	16:34	X	X														
510-69652-14	1	T	16:34	X	X														
510-69652-15	1	T	16:37	X	X														
510-69652-15 DU	1	T	16:37	X	X														

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Batch Number: 86191 Batch Start Date: 09/06/11 16:34 Batch Analyst: Hall, Jennifer L

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 510-86191/1		Moisture		1	001.0391 g	011.1600 g	001.0416 g		
510-69652-A-1	SB0058:TP33SW1:00020	Moisture	T	2	001.0098 g	012.3354 g	011.4516 g		
510-69652-A-2	SB0058:TP33SW2:00020	Moisture	T	3	001.0332 g	011.1155 g	010.4963 g		
510-69652-A-2 DU	SB0058:TP33SW2:00020	Moisture	T	4	000.9804 g	011.4538 g	010.7356 g		
510-69652-A-3	SB0058:TP33SW3:00020	Moisture	T	5	001.0391 g	011.4483 g	010.4688 g		
510-69652-A-4	SB0058:TP33SW4:00020	Moisture	T	6	001.0089 g	011.4062 g	010.4031 g		
510-69652-A-5	SB0058:TP33FLR1:025030	Moisture	T	7	001.0276 g	011.3877 g	010.4943 g		
510-69652-A-6	SB0058:TP33FLR2:025030	Moisture	T	8	001.0007 g	011.1245 g	010.3653 g		
510-69652-A-7	SB0058:TP33FLR3:025030	Moisture	T	9	001.0400 g	011.2260 g	010.3700 g		
510-69652-A-8	SB0058:TP4SW1:00020	Moisture	T	10	000.9982 g	011.4770 g	010.2772 g		
510-69652-A-9	SB0058:TP4SW2:00020	Moisture	T	11	001.0224 g	011.0705 g	010.1335 g		
510-69652-A-10	SB0058:TP4SW3:00020	Moisture	T	12	001.0132 g	011.2957 g	010.9288 g		
510-69652-A-11	SB0058:TP4SW4:00020	Moisture	T	13	000.9687 g	011.8149 g	011.4042 g		
510-69652-A-11 MS	SB0058:TP4SW4:00020	Moisture	T	13	000.9687 g	011.8149 g	011.4042 g		
510-69652-A-11 MSD	SB0058:TP4SW4:00020	Moisture	T	13	000.9687 g	011.8149 g	011.4042 g		
510-69652-A-12	SB0058:TP4FLR1:025030	Moisture	T	14	001.0112 g	011.3542 g	010.0286 g		
510-69652-A-13	SB0058:TP4FLR2:025030	Moisture	T	15	000.9919 g	011.3422 g	010.2168 g		
510-69652-A-14	SB0058:TP4FLR3:025030	Moisture	T	16	000.9942 g	011.3821 g	009.9799 g		
510-69652-A-15	Field Duplicate	Moisture	T	17	000.9577 g	011.6909 g	011.4208 g		
510-69652-A-15 DU	Field Duplicate	Moisture	T	18	001.0001 g	011.6027 g	011.3203 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-69652-1

SDG No.: _____

Batch Number: 86191 Batch Start Date: 09/06/11 16:34 Batch Analyst: Hall, Jennifer L

Batch Method: Moisture Batch End Date: _____

Batch Notes	
Balance ID	13506717 No Unit
Date samples were placed in the oven	9-6-11
Oven Temp when samples are put in oven	103.7 Degrees C
Time samples were place in the oven	1700
Date samples were removed from oven	9-7-11
Oven Temp when samples removed from oven	103.2 Degrees C
Time Samples were removed from oven	1015
Oven ID	wc-ovn-1
ID number of the thermometer	14-986-b-g
Uncorrected In Temperature	103.5 Celsius
Uncorrected Out Temperature	103.0 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Client Information Client Contact: Jodi Slough Company: Weaver Boos Consultants LLC Address: 4085 Meghan Beeler Court City: South Bend State, Zip: IN, 46628 Phone: 574-271-3447(Tel) Email: jslough@weaverboos.com Project Name: South Bend Former Studebaker Foundry Site:				Lab PM: Kintz, Robin M E-Mail: robinm.kintz@testamericainc.com Phone: 574-952-5280 Carrier Tracking No(s): COC No: 510-16180-5110.1 Page: Page 1 Job #:			
Due Date Requested: TAT Requested (days): 1 day PO #: Purchase Order not requir WO #: Project #: 51001692 SSOW#:				Analysis Requested Field Filtered Sample (Yes or No) X Perform MS/MSD (Yes or No) X 8015B_DRO, 8270C, 8270C_SIM N 8020_7471A N 8082 - Standard List N 8260B - Standard List A LEAD Total Number of containers:			
Sample Identification Sample ID: SB0058: TP33SW1: 000020 SB0058: TP33SW2: 000020 SB0058: TP33SW3: 000020 SB0058: TP33SW4: 000020 SB0058: TP33FLR1: 025 030 SB0058: TP33FLR2: 025 030 SB0058: TP33FLR3: 025 030 SB0058: TP4SW1: 000020 SB0058: TP4SW2: 000020 SB0058: TP4SW3: 000020 SB0058: TP4SW4: 000020				Matrix (W-water, S-solid, O-oil, BT-Tissue, A-Air) Preservation Code: Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code: Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by: Relinquished by: Jodi Slough Relinquished by: Jody Slough Relinquished by: Jody Slough Date/Time: 9/6/11, 1350 Date/Time: 9/6/11, 1500 Date/Time:				Special Instructions/QC Requirements: Method of Shipment: Received by: WBG Received by: Jody Slough Received by: Company: WBG Company: Jody Slough Company:			
Custody Seals Intact: A Yes Δ No Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 10.1°C ambient temp 0.9°C 51018-174			

Client Information			Lab PM:		Carrier Tracking No(s)			COC No:	
Client Contact: Jodi Slough			Kintz, Robin M					510-16180-5110.2	
Company: Weaver Boos Consultants LLC			E-Mail: robinm.kintz@testamericainc.com					Page: 2	
Address: 4085 Meghan Beeler Court								Job #:	
City: South Bend									
State, Zip: IN, 46628									
Phone: 574-271-3447(Tel)									
Email: jslough@weaverboos.com									
Project Name: South Bend Former Studebaker Foundry									
Site: 51001692									
SSOW#:									
Due Date Requested:									
TAT Requested (days):			1 day						
PO #:									
Purchase Order not requir									
WO #:									
Project #:									
51001692									
SSOW#:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested		Special Instructions/Note:
							8015B_DRO, 8270C, 8270C_SIM	8020, 7471A	
W0150	9/6/11	0910	g	Solid	N	N	N	A	
SBO05B:TP4 FLR1 : 025030	9/6/11	0915	g	Solid	N	N	X	X	
SBO05B:TP4 FLR2 : 025030	9/6/11	0920	g	Solid	N	N	X	X	
SBO05B:TP4 FLR3 : 025030	9/6/11	0905	g	Solid	N	N	X	X	
MS/MSD	9/6/11	0855	g	Solid	N	N	X	X	
Field Duplicate	9/6/11	0905	LAB	Solid	N	N			
Trip Blank	9/6/11	0905	LAB	Solid	N	N			
Substrate blank (Method)				Solid					
Trip Blank				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p>									
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> <p>Special Instructions/QC Requirements:</p>									
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Jodi Slough</i> Date/Time: <i>9/6/11 1350</i> Company: <i>WBC</i></p> <p>Relinquished by: <i>Andy Taha</i> Date/Time: <i>9/6/11 1500</i> Company: <i>Test America</i></p> <p>Relinquished by: <i>Andy Taha</i> Date/Time: <i>9/6/11 1500</i> Company: <i>Test America</i></p>									
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.:</p>									

3033 nod bubble, 7 min, 0.016
 not originally on file vials provided and 9/6

Login Sample Receipt Checklist

Client: Weaver Boos Consultants LLC

Job Number: 510-69652-1

Login Number: 69652

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	N/A	Lab does not accept radioactive samples.
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.	False	Sodium Bisulfate/Methanol Blank not originally on COC, vials provided.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
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.	True	
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.	False	3 of 3 vials for Trip Blank had bubble >6mm
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.