

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Valparaiso
2400 Cumberland Drive
Valparaiso, IN 46383
Tel: (219)464-2389

TestAmerica Job ID: 510-63445-2

Client Project/Site: South Bend Former Studebaker Foundry

For:
Weaver Boos Consultants LLC
4085 Meghan Beeler Court
South Bend, Indiana 46628

Attn: Ed Stefanek



Authorized for release by:
05/03/2011 02:03:09 PM

Robin Kintz
Project Manager I
robinm.kintz@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions	3
Client Sample Results	4
QC Sample Results	5
QC Association	6
Chronicle	7
Certification Summary	8
Method Summary	9
Sample Summary	10
Chain of Custody	11
Sample Receipt Checklist	13

Qualifier Definition/Glossary

Client: Weaver Boos Consultants LLC
Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

1

2

3

4

5

6

7

8

9

10

11

12

Analytical Data

Client: Weaver Boos Consultants LLC
Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Client Sample ID: SB0058:TP33:000020

Lab Sample ID: 510-63445-3

Date Collected: 03/21/11 14:10

Matrix: Solid

Date Received: 03/22/11 15:35

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		mg/L		04/27/11 08:20	05/02/11 16:53	10

1

2

3

4

5

6

7

8

9

10

11

12

Quality Control Data

Client: Weaver Boos Consultants LLC
 Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 510-79570/1-A
Matrix: Solid
Analysis Batch: 79868

Client Sample ID: MB 510-79570/1-A
Prep Type: Total/NA
Prep Batch: 79570

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.050		0.050		mg/L		04/27/11 08:20	05/02/11 16:14	1

Lab Sample ID: LCS 510-79570/2-A
Matrix: Solid
Analysis Batch: 79868

Client Sample ID: LCS 510-79570/2-A
Prep Type: Total/NA
Prep Batch: 79570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits

Lab Sample ID: LB 510-79507/1-B ^10 LB
Matrix: Solid
Analysis Batch: 79868

Client Sample ID: LB 510-79507/1-B ^10
Prep Type: TCLP
Prep Batch: 79570

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.50		0.50		mg/L		04/27/11 08:20	05/02/11 16:48	10

Lab Sample ID: 510-63445-3 MS
Matrix: Solid
Analysis Batch: 79868

Client Sample ID: SB0058:TP33:000020
Prep Type: TCLP
Prep Batch: 79570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits

Lab Sample ID: 510-63445-3 MSD
Matrix: Solid
Analysis Batch: 79868

Client Sample ID: SB0058:TP33:000020
Prep Type: TCLP
Prep Batch: 79570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit

QC Association Summary

Client: Weaver Boos Consultants LLC
 Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Metals

Leach Batch: 79507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 510-79507/1-B ^10 LB	LB 510-79507/1-B ^10	TCLP	Solid	1311	
510-63445-3	SB0058:TP33:000020	TCLP	Solid	1311	
510-63445-3 MS	SB0058:TP33:000020	TCLP	Solid	1311	
510-63445-3 MSD	SB0058:TP33:000020	TCLP	Solid	1311	

Prep Batch: 79570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 510-79570/1-A	MB 510-79570/1-A	Total/NA	Solid	3010A	
LCS 510-79570/2-A	LCS 510-79570/2-A	Total/NA	Solid	3010A	
LB 510-79507/1-B ^10 LB	LB 510-79507/1-B ^10	TCLP	Solid	3010A	79507
510-63445-3	SB0058:TP33:000020	TCLP	Solid	3010A	79507
510-63445-3 MS	SB0058:TP33:000020	TCLP	Solid	3010A	79507
510-63445-3 MSD	SB0058:TP33:000020	TCLP	Solid	3010A	79507

Analysis Batch: 79868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 510-79570/1-A	MB 510-79570/1-A	Total/NA	Solid	6010B	79570
LCS 510-79570/2-A	LCS 510-79570/2-A	Total/NA	Solid	6010B	79570
LB 510-79507/1-B ^10 LB	LB 510-79507/1-B ^10	TCLP	Solid	6010B	79570
510-63445-3	SB0058:TP33:000020	TCLP	Solid	6010B	79570
510-63445-3 MS	SB0058:TP33:000020	TCLP	Solid	6010B	79570
510-63445-3 MSD	SB0058:TP33:000020	TCLP	Solid	6010B	79570



Lab Chronicle

Client: Weaver Boos Consultants LLC
Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Client Sample ID: SB0058:TP33:000020

Lab Sample ID: 510-63445-3

Date Collected: 03/21/11 14:10

Matrix: Solid

Date Received: 03/22/11 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			79507	04/25/11 16:11	LWN	TestAmerica Valparaiso
TCLP	Prep	3010A			79570	04/27/11 08:20	LWN	TestAmerica Valparaiso
TCLP	Analysis	6010B		10	79868	05/02/11 16:53	MT	TestAmerica Valparaiso

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

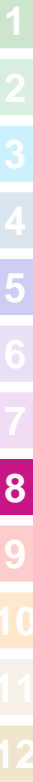
Certification Summary

Client: Weaver Boos Consultants LLC
Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Valparaiso		USDA		P330-11-00073
TestAmerica Valparaiso	Illinois	NELAC	5	200065
TestAmerica Valparaiso	Indiana	State Program	5	M-64-4
TestAmerica Valparaiso	Indiana	State Program	5	C-64-01
TestAmerica Valparaiso	Kentucky	Kentucky UST	4	57
TestAmerica Valparaiso	New Hampshire	NELAC	1	2837
TestAmerica Valparaiso	Washington	State Program	10	C842

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

Client: Weaver Boos Consultants LLC
Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL VAL

Protocol References:

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

Laboratory References:

TAL VAL = TestAmerica Valparaiso, 2400 Cumberland Drive, Valparaiso, IN 46383, TEL (219)464-2389



Sample Summary

Client: Weaver Boos Consultants LLC
Project/Site: South Bend Former Studebaker Foundry

TestAmerica Job ID: 510-63445-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
510-63445-3	SB0058:TP33:000020	Solid	03/21/11 14:10	03/22/11 15:35

1

2

3

4

5

6

7

8

9

10

11

12

Chain of Custody Record

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

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

Sampler: Jodi Slough
Phone: 574.952.5280
Lab PM: Kintz, Robin M
E-Mail: robinm.kintz@testamericainc.com

Due Date Requested: 0658-373-01
TAT Requested (days):
PO #:
WO #:
Project #: 51001692
SSOW#:

Analysis Requested

Sample ID	Sample Description	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, L=liquid, A=air)	Field Filtered Sample (Yes or No)	8270C, 8270C, SIM - BNAs	8082 - PCBs	8260B - VOCs	8016 - TPH GRO	8016 - TPH ERO	8260B - VOCs (THP Blanks)	Total Number of Containers	Special Instructions/Note
-1	SB0058: TP32: 000020	3/21/11	1330	G	S	N	✓	✓	✓	✓	✓	✓	10	
-2	SB0058: TP32: 040050	3/21/11	1335	G	S	N	✓	✓	✓	✓	✓	✓	10	
-3	SB0058: TP33: 000020	3/21/11	1410	G	S	N	✓	✓	✓	✓	✓	✓	10	
-4	SB0058: TP33: 040050	3/21/11	1415	G	S	N	✓	✓	✓	✓	✓	✓	10	
-5	SB0058: TP34: 000020	3/21/11	1435	G	S	N	✓	✓	✓	✓	✓	✓	10	
-6	SB0058: TP34: 040050	3/21/11	1440	G	S	N	✓	✓	✓	✓	✓	✓	10	
-7	SB0058: TP35: 000020	3/21/11	1500	G	S	N	✓	✓	✓	✓	✓	✓	10	
-8	SB0058: TP35: 040050	3/21/11	1505	G	S	N	✓	✓	✓	✓	✓	✓	10	
-9	SB0058: TP36: 000020	3/21/11	1515	G	S	N	✓	✓	✓	✓	✓	✓	10	
-10	SB0058: TP36: 040050	3/21/11	1520	G	S	N	✓	✓	✓	✓	✓	✓	10	
-11	MS/MSD	3/21/11	1420	G	S	N	✓	✓	✓	✓	✓	✓	10	Field/terra core k.t. empty DE-3 (23/14)

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 L - EDTA
 Z - other (specify)

Special Instructions/Note:

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Mandy Brando
Relinquished by: Mandy Brando
Relinquished by: Mandy Brando
Relinquished by: Mandy Brando
Relinquished by: Mandy Brando

Company: WBC
Company: TestAmerica
Company: TestAmerica
Company: TestAmerica

Date: 3/22/11, 2/14, 3/22/11, 1535
Date/Time: 3/22-11 1419
Date/Time: 3/22/11 1535
Date/Time: 3/22/11 1535

Method of Shipment:

Cooler Temperature(s) °C and Other Remarks:
 16.5, 20.8, 07.6, 17.1, 0.8, 5.0, 18.0, 0.9



Chain of Custody Record

2400 Cumberland Drive
Valparaiso, IN 46383
Phone (219) 464-2389 Fax (219) 462-2963

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

Sampler: Jodi Slough Lab PM: Kintz, Robin M
 Phone: 574.958.5280 E-Mail: robinm.kintz@testamericainc.com
 Due Date Requested:
 TAT Requested (days):
 PO #: 0058-373-01
 WO #:
 Project #: 51001692
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Washer, Swab, Composite, etc)	Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:
					Field Filtered	MSP (Yes or No)			
<u>6-115</u>									
<u>1-11 Field Duplicate</u>	<u>3/21/11</u>	<u>1340</u>	<u>G</u>	<u>S</u>	<u>N</u>	<u>N</u>			
<u>1-10 Trip Blank</u>	<u>3/21/11</u>	<u>LAB</u>	<u>-</u>	<u>-</u>	<u>N</u>	<u>N</u>			<u>no vials provided</u> <u>cont 32211</u> <u>Pipet Blank no required</u> <u>BERNK.</u>

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Jodi Slough Date: 3/22/11, 2:14
 Relinquished by: Mandy Brendt Date: 3-22-11, 1535
 Relinquished by: TEST AMERICA Date: 3/22/11, 1535

Custody Seal Intact: Yes No
 Custody Seal No: 152765, 75275, 75276, 4

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Return To Client	Disposal By Lab	Archive For	Months
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Special Instructions/QC Requirements:

Method of Shipment: _____
 Date/Time: _____
 Date/Time: 3-22-11 1414 Company: TEST AMERICA
 Date/Time: 3/22/11 1535 Company: TEST AMERICA
 Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:
110, 50-48-076, 1.7, 10.8, 510-48-0916, 6.9, 1.7



Login Sample Receipt Checklist

Client: Weaver Boos Consultants LLC

Job Number: 510-63445-2

Login Number: 63445

List Source: TestAmerica Valparaiso

List Number: 1

Creator: Looney, Christina M

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