

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-38977-1

Client Project/Site: Abandoned Mining Waste-Torch Lake PCBs

For:

Michigan Dept of Environmental Quality

Constitution Hall

525 W. Allegan Street

Lansing, Michigan 48909

Attn: Amy Keranen



Authorized for release by:

7/8/2014 2:33:56 PM

Patrick O'Meara, Manager of Project Management

(330)966-5725

patrick.omeara@testamericainc.com

Designee for

Kris Brooks, Project Manager II

(330)966-9790

kris.brooks@testamericainc.com

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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

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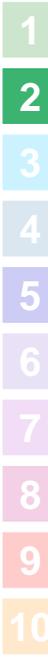


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Definitions/Glossary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste-Torch Lake PCBs

TestAmerica Job ID: 240-38977-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste-Torch Lake PCBs

TestAmerica Job ID: 240-38977-1

Job ID: 240-38977-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-38977-1

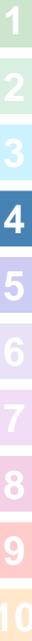
Comments

The Asbestos analysis was performed at EMLab P&K Irvine laboratory.

Receipt

The samples were received on 6/20/2014 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Method Summary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste-Torch Lake PCBs

TestAmerica Job ID: 240-38977-1

Method	Method Description	Protocol	Laboratory
Local Method	General Sub Contract Method	NONE	EMLab

Protocol References:

NONE = NONE

Laboratory References:

EMLab = EMLab - Irvine, Bascom Airport Executive Suites, 17461 Derian Ave, Suite 100, Irvine, CA 92614

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Sample Summary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste-Torch Lake PCBs

TestAmerica Job ID: 240-38977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-38977-1	CHLL-SB22 3"-9"	Solid	06/14/14 09:30	06/27/14 10:55
240-38977-2	CHLL-SB55 0"-6"	Solid	06/14/14 09:55	06/27/14 10:55
240-38977-3	CHLL-SB17 0"-6"	Solid	06/14/14 13:55	06/27/14 10:55
240-38977-4	CHLL-SB19 0"-6"	Solid	06/14/14 15:20	06/27/14 10:55
240-38977-5	CHLL-SB50 0"-12"	Solid	06/14/14 16:10	06/27/14 10:55
240-38977-6	CHLL-SB56 0"-6"	Solid	06/14/14 17:00	06/27/14 10:55
240-38977-7	CHLL-SB51 0"-6"	Solid	06/14/14 08:30	06/27/14 10:55

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Detection Summary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste-Torch Lake PCBs

TestAmerica Job ID: 240-38977-1

Client Sample ID: CHLL-SB22 3"-9"

Lab Sample ID: 240-38977-1

No Detections.

Client Sample ID: CHLL-SB55 0"-6"

Lab Sample ID: 240-38977-2

No Detections.

Client Sample ID: CHLL-SB17 0"-6"

Lab Sample ID: 240-38977-3

No Detections.

Client Sample ID: CHLL-SB19 0"-6"

Lab Sample ID: 240-38977-4

No Detections.

Client Sample ID: CHLL-SB50 0"-12"

Lab Sample ID: 240-38977-5

No Detections.

Client Sample ID: CHLL-SB56 0"-6"

Lab Sample ID: 240-38977-6

No Detections.

Client Sample ID: CHLL-SB51 0"-6"

Lab Sample ID: 240-38977-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Certification Summary

Client: Michigan Dept of Environmental Quality
 Project/Site: Abandoned Mining Waste-Torch Lake PCBs

TestAmerica Job ID: 240-38977-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-14 *
Georgia	State Program	4	N/A	06-30-14 *
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-15
Kentucky (UST)	State Program	4	58	06-30-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-14 *
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14 *
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-14 *

* Certification renewal pending - certification considered valid.



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Report for:

Ms. Kris Brooks
TestAmerica-Canton
4101 Shuffel Dr. NW
North Canton, OH 44720

Regarding: Project: Abandoned Mining Wastes - Torch Lake PCBs; Weston Solutions / MDEQ
EML ID: 1224311

Approved by:

Dates of Analysis:
Asbestos-CARB 435: 07-02-2014

Approved Signatory
Miguel Ines

Service SOPs: Asbestos-CARB 435 (01265)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: TestAmerica-Canton

Date of Sampling: 06-14-2014

C/O: Ms. Kris Brooks

Date of Receipt: 06-23-2014

Re: Abandoned Mining Wastes - Torch Lake PCBs; Date of Report: 07-02-2014

Weston Solutions / MDEQ

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	CHLL-SB22 3"-9"		
Total Points Counted:	400		
Lab ID-Version‡:	5570450-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Dark Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

Location:	CHLL-SB55 0"-6"		
Total Points Counted:	400		
Lab ID-Version‡:	5570451-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

Location:	CHLL-SB17 0"-6"		
Total Points Counted:	400		
Lab ID-Version‡:	5570452-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: TestAmerica-Canton

Date of Sampling: 06-14-2014

C/O: Ms. Kris Brooks

Date of Receipt: 06-23-2014

Re: Abandoned Mining Wastes - Torch Lake PCBs;

Date of Report: 07-02-2014

Weston Solutions / MDEQ

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	CHLL-SB19 0"-6"		
Total Points Counted:	400		
Lab ID-Version‡:	5570453-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

Location:	CHLL-SB50 0"-12"		
Total Points Counted:	400		
Lab ID-Version‡:	5570454-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

Location:	CHLL-SB56 0"-6"		
Total Points Counted:	400		
Lab ID-Version‡:	5570455-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: TestAmerica-Canton

Date of Sampling: 06-14-2014

C/O: Ms. Kris Brooks

Date of Receipt: 06-23-2014

Re: Abandoned Mining Wastes - Torch Lake PCBs;

Date of Report: 07-02-2014

Weston Solutions / MDEQ

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	CHLL-SB51 0"-6"		
Total Points Counted:	400		
Lab ID-Version‡:	5570456-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Dark Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY
www.EMLabPK.com



A TastaAmerica Company
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Phoenix, AZ: 1501 West Knickerbocker Drive, Phoenix, AZ 85027 • (800) 657-4802
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CONTACT INFORMATION

Company: WESTON SOLUTIONS/MDEER
Address: PO BOX 577 WAUGHTON, MI 49931
Contact: JEFF BRINKLEY
Special Instructions: e-mail: jbrinkley@westonsolutions.com
Phone: (906) 523-5457

PROJECT INFORMATION

Project ID: ABANDONED MINING WASTES - TORCH LAKE
Project Description: TORCH LAKE
Project Zip Code: 49935
PO Number: 144403130740
Sample ID: 956990-08
Description: CHL - SB22 3'-9"
Sampling Date & Time: 6/14/14 1000
Sampled By: JEFF PANGUMBE
Turn Around Time Codes (TAT):
STD - Standard (DEFAULT)
ND - Next Business Day
SD - Same Business Day Rush
WH - Weekend / Holiday

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
CHL - SB22 3'-9"		SO	STD		0930 6/14/14
CHL - SB55 0'-6"		SO	STD		0955 6/14/14
CHL - SB17 0'-6"		SO	STD		1355 6/14/14
CHL - SB19 0'-6"		SO	STD		1520 6/14/14
CHL - SB50 0'-12"		SO	STD		1610 6/14/14
CHL - SB56 0'-6"		SO	STD		1700 6/14/14
CHL - SB51 0'-6"		SO	ST		0930 6/15/14

SAMPLE TYPE CODES

BC - BioCassette™	ST - Spore Trap Zefon	T - Tapes	D - Diet
A19 - Anderson	Allergenco, Burkard ...	SW - Swab	SO - Soil
SAS - Surface Air Sampler	P - Potable Water	B - Bulk	
CP - Contact Plates	NP - Non-Potable Water	O - Other	

RELINQUISHED BY

Signature: Jeff Brinkley
Date & Time: 6-18-14 10:00

RECEIVED BY

Signature: [Signature]
Date & Time: 6/18/14 13:00

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at <http://www.emlab.com/chainofcustody.htm>

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