Columbus

Cleveland

Dayton

November 28, 2018

Richard E. Rockich, P.E Director of Operations E.L. Robinson Engineering 1468 West 9th Street, Suite 500 Cleveland, Ohio 44113 (216) 452-1890

Subject: Asbestos Inspection of the SUM 00076 09130 (I-76) Bridge (SFN #7703481) over Manchester Road/SR-93, Akron, Ohio 44311 (L&A 18-0568)

Dear Mr. Rockich:

On November 16, 2018 Mr. Jordan Mederer, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35005) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc (L&A) conducted an asbestos survey of SUM 00076 09130 (I-76) Bridge (SFN #7703481) over Manchester Road/SR-93, Akron, Ohio 44311. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and no asbestos containing materials were listed.

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability
Parapet Wall Pad	Above Deck – North and South Sides	Non Friable
Abutment Rubber Expansion	Below Deck – East & West Ends	Non Friable
Bridge Grey Expansion Joint	At Expansions – East & West Ends	Non Friable
Bridge Slope Caulking	Below Deck- East & West Ends	Non Friable
Reflector Caulking	Above Deck – On Parapet Walls	Non Friable
Steel Beam Pain	Below Deck - Throughout	Non Friable
White Concrete Paint	Above Deck - Throughout	Non Friable

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Parapet Wall Pad – North Side, West End	No Asbestos Detected
2	Parapet Wall Pad - North Side, East End	No Asbestos Detected
3	Parapet Wall Pad – South Side, West End	No Asbestos Detected
4	Abutment Rubber Expansion - Below Deck, West End	No Asbestos Detected
5	Abutment Rubber Expansion - Below Deck, West End	No Asbestos Detected
6	Abutment Rubber Expansion - Below Deck, West End	No Asbestos Detected
7	Bridge Grey Expansion Joint - North Side, West End	No Asbestos Detected
8	Bridge Grey Expansion Joint - North Side, East End	No Asbestos Detected
9	Bridge Grey Expansion Joint - South Side, West End	No Asbestos Detected
10	Bridge Slope Caulking – Below Deck North Side, West End	No Asbestos Detected
11	Bridge Slope Caulking – Below Deck Middle, West End	No Asbestos Detected
12	Bridge Slope Caulking - Below Deck South Side, West End	No Asbestos Detected
13	Reflector Caulking – North Side	No Asbestos Detected
14	Reflector Caulking – North Side	No Asbestos Detected
15	Reflector Caulking – North Side	No Asbestos Detected
16	Steel Beam Paint – West End	No Asbestos Detected
17	Steel Beam Paint – West End	No Asbestos Detected
18	Steel Beam Paint – East End	No Asbestos Detected
19	White Concrete Paint – West End Below Deck	No Asbestos Detected
20	White Concrete Paint – West End Below Deck	No Asbestos Detected
21	White Concrete Paint – North Side Middle	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Jordan Mederer and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the laboratory results and chain-of-custody documentation for the asbestos bulk samples collected.

Appendix D contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On November 16, 2018 Mr. Jordan Mederer, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35005) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 09130 (I-76) Bridge (SFN #7703481) over Manchester Road/SR-93, Akron, Ohio 44311. No asbestos-containing materials (ACM) were identified in the course of the survey. If you have any questions, please contact Jordan Mederer at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Project Manager

Jordan Mederer, AHES 35005 HBM Department Manager

Pollen

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

July 06, 2018

Jordan R Mederer Lawhon & Associates Inc 1441 King Avenue Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35005 Expiration Date: 08/08/2019

Dear Jordan R Mederer:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Mark Needham

Manager, Asbestos Program
Division of Air Pollution Control

Mark JS Needhan

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist



Jordan R Mederer
Lawhon & Associates Inc
1441 King Ayen Privironmental
Columbus 24 43212n Agency

Certification Number ES35005

This certification is issued pursuant to Revised Code Chapter 3710 and Administrative Code Chapter 3745-22.

Expiration Date 08/08/2019

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Jordan Mederer

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: June 20, 2018

Course Director:

Kurt ∜arga

Expiration Date: June 20, 2019

Examination Date: June 20, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6430 & ITNMPR-6430



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

September 05, 2018

Matthew A Geiger Lawhon & Associates, Inc 1441 King Ave Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2019

Dear Matthew A Geiger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely.

Mark Needham

Manager, Asbestos Program
Division of Air Pollution Control

Mark JS Needlan

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Matthew A Gelger
Lawhon & Associates, Inc
1441 King Ave
Columbus OH 43212
Certification Number
Expiration Date
10/14/2019

This certification is issued pursuant to Revised Code
Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matthew Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: July 18, 2018

Course Director: _

Kurt Varga

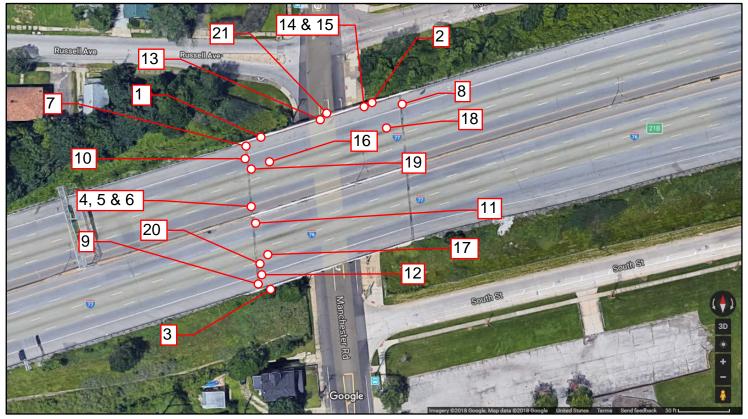
Expiration Date: July 18, 2019

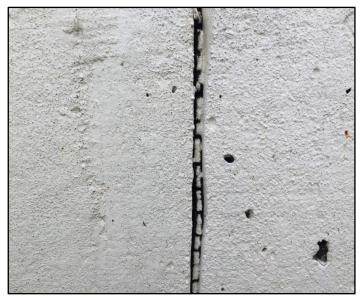
Examination Date: July 18, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6434 & ITNMPR-6434

APPENDIX B BULK SAMPLE DIAGRAM





















Bulk Sample Diagram

Inventory Bridge Number: CUY 00076 09130

Structure File Number: 7703481 Date Sampled: November 16, 2018 **Surveyors:** Matt Geiger, AHES 35832 Jordan Mederer, AHES 35005

Signatures: Matt & Teiger

Page 2 of 2

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APPENDIX C LABORATORY RESULTS AND CHAIN OF CUSTODY



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577992 - PLM

Columbus OH 43212 Project: SUM-00076-09130

Client: LAW411 Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657441 Analyst Observation: Black Non-Fibrous Location: North Side West End

Client No.: 1 Client Description: Parapet Wall Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657442 Analyst Observation: Black Non-Fibrous Location: North Side East End

Client No.: 2 Client Description: Parapet Wall Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657443 Analyst Observation: Black Non-Fibrous Location: South Side West End

Client No.: 3 Client Description: Parapet Wall Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657444 Analyst Observation: Black Rubber Location: Below Deck West End

Client No.: 4 Client Description: Abutment Rubber Expansion Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657445 Analyst Observation: Black Rubber Location: Below Deck West End

Client No.: 5 Client Description: Abutment Rubber Expansion Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657446 Analyst Observation: Black Rubber Location: Below Deck West End

Client No.: 6 Client Description: Abutment Rubber Expansion Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/26/2018

Dated: 11/27/2018 4:08:49

Signature:
Analyst:
Tiffany Lowe

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577992 - PLM

Columbus OH 43212 Project: SUM-00076-09130

Client: LAW411 Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657447Analyst Observation: Grey Expansion JointLocation: North Side West End

Client No.: 7 Client Description: Bridge Grey Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657448 Analyst Observation: Grey Expansion Joint Location: North Side East End

Client No.: 8 Client Description: Bridge Grey Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657449 Analyst Observation: Grey Expansion Joint Location: South Side West End

Client No.: 9 Client Description: Bridge Grey Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657450 Analyst Observation: Black Caulk Location: Below Deck West-North

Client No.: 10 Client Description: Bridge Slope Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657451 Analyst Observation: Black Caulk Location: Below Deck West-Middle

Client No.: 11 Client Description: Bridge Slope Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657452 Analyst Observation: Black Caulk Location: Below Deck West-South

Client No.: 12 Client Description: Bridge Slope Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/26/2018

Date Analyzed: 11/26/2018

Signature:
Analyst:
Tiffany Lowe

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 11/27/2018 4:08:49 Page 2 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577992 - PLM

Columbus OH 43212 Project: SUM-00076-09130

Client: LAW411 Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

.....

Lab No.: 6657453Analyst Observation: Grey CaulkLocation: North Side

Client No.: 13 Client Description: Reflector Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657454 Analyst Observation: Grey Caulk Location: North Side

Client No.: 14 Client Description: Reflector Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657455 Analyst Observation: Grey Caulk Location: North Side

Client No.: 15 Client Description: Reflector Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657456 Analyst Observation: Grey Paint Location: West End

Client No.: 16 Client Description: Steel Beam Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657457 Analyst Observation: Grey Paint Location: West End

Client No.: 17 Client Description: Steel Beam Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657458 Analyst Observation: Grey Paint Location: East End

Client No.: 18 Client Description: Steel Beam Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/26/2018

Signature:

Analyst: Tiffany Lowe

Dated: 11/27/2018 4:08:49

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 3 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577992 - PLM

Columbus OH 43212 Project: SUM-00076-09130

Client: LAW411 Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657459 Analyst Observation: White Paint Location: West End Below Deck

Client No.: 19 Client Description: White Concrete Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657460 Analyst Observation: White Paint Location: West End Below Deck

Client No.: 20 Client Description: White Concrete Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657461 Analyst Observation: White Paint Location: North Side Middle

Client No.: 21 Client Description: White Concrete Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/26/2018

Signature:
Analyst:
Tiffany Lowe

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 11/27/2018 4:08:49 Page 4 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577992 - PLM

Columbus OH 43212 Project: SUM-00076-09130

Client: LAW411 Project No.: 18-0568

Appendix to Analytical Report

Customer Contact:

Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

Dated: 11/27/2018 4:08:49 Page 5 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577992 - PLM

Columbus OH 43212 Project: SUM-00076-09130

Client: LAW411 Project No.: 18-0568

Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 11/27/2018 4:08:49 Page 6 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc.

1441 King Avenue

Columbus OH 43212

Client: LAW411

Report Date: 11/26/2018

Report No.: 577992 - PLM

Project: SUM-00076-09130

Project No.: 18-0568

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 11/27/2018 4:08:49 Page 7 of 7

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600

Fax: (614) 481-8610

Sent	To:	1A	7	<u>L</u>
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Νō 11167

VIA: 1 60 5 X

Date: 11-16-18

Turn around: 3-207

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:			Project No.:	Pro	ject Contact:	Sampler (print)	Sig	nature
SUM - 000	76-	09130	18-0568	. M	att Friger		IM .	\$ Alyw
Sample I.D. No.	Homog. Area No.	Sample /Homo	geneous Area Description	n	San	pple Location		Remarks
	ı	Paraget wall	Pad		North Side	west End	6657441	
2	1				1	East End	5857442	-
3	1	J_			South Side	west End	5857443	
4	۲.	Abuntment Rub	ober Expansi	61)	Bolow Deck w	rest End	5857444	
2	2				İ		6857445	
L	2						5857446	
7	3	Bridge grez	Expansion	Tout	North Side	west End .	5857447	
8	3	,			7	East End.	6857448	ļ
q	3				south side .	~est End .		
10	4	Bridge slope c	aulking		Below Dock	west - North.	5857443 5857450	
<u>ti</u>	4)			\	- Middle		
12	4				1	- South	5657453 	
(3	5_	Reflector Car	ltring	×	North Side	,	565 74 5	
14	2,	\			\	-	<u> </u>	
15	S	1		ja.		<i>₩</i>		
16	٦	Steel beam p	aint		wist End		955745 985745	
17	6	1			<u> </u>	3.	US5745	
18	9				East End	*	5857458	
SAMPLE ANALYSIS BY	EPA ME	THOD 600/R-93/118 UNI	ESSOTHERWISE N	OTED. 18	A Ke	we_11.26.18	☐ Stop 1st Positive	Analyze All Samples
Relinquished by (signature)	/ 1	Pate / Time Received b	y: (signature)	Date / Time			Received by: (signature)	Date / Time

	Lawhon	& Associates,	Inc.
--	--------	---------------	------

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600

Fax: (614) 481-8610

Sent To: ATL	No	Name of the last	1168	
VIA: Fed Bt	Page 2		of 2	

11-11-10	
Date: 16-18	3-0 a-7

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:			Project No.:	Proje	ect Contact:		***	Sampler (print):		Signature
SUM-00076	0 - 0a	1130	18-0568	M	att c	781905	- \			The H
Sample I.D. No.	Homog. Area No.	Sample /Homogeneous Area Description				The same of the sa	ample Location			Remarks
19	7	white con	crete Paint		₩ EST	END	Below V	De 03657	459	
20	7	į			7		1	5857		
21	7_	7			Nosth	5.00	MIDDIC	<u> </u>	16 Pront And	Myze Concrete &
										
		· · · · · · · · · · · · · · · · · · ·								

								·		
		**************************************					·			
SAMPLE ANALYSIS BY		HOD 600/R-93/116	UNLESS OTHERWISE		(KE	Cowe_II	26.18	☐ Stop 1st Pos	itive DAnalyze All Samples
Relinquished by: (signature)	11-19-	ate / Time Recei	ived by: (signature)	Date / Time		hed by: (signa			leceived by: (signature)	Date / Time

APPENDIX D OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed: /	 ' /		Received:	/	/		☐ Hand-Deliv	ered
1) Notification Infor	mation (Check all that a	pply)	<u> </u>				.4			<u></u>	·- 	
☑ Original ☐ Rev	vision # (count):	☐ Installation	☐ Emerge	ency [Annual		Cancellation	County	:			
2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information Revised?												
Owner	Owner											
Name: ODOT District 4 Is this a company? 🛛 Yes 🗌 No												
Address: 2088 South Arlington Road Contact Person:												
City: Akron State: Ohio Zip: 44306 -												
Email:	Email: Phone: (330) 786 - 3100 Fax: (330) 786 - 2226											
Asbestos Abatement C	ontractor (if applicable)		Ï					, i				
Name:					License #	: AC			Ex	piration [Date: / /	
Address:					Conta	ct Pers	son:					
City:				State:				Zip:	:	-		
Email:				Phone: ()	-		Fax	: ()	-	
Billing Contact												
Is this contact associate	ed with the 🔲 Owner,	Asbestos Aba	itement Cor	ntractor,	or 🔲 Den	nolitio	n Contractor (i	if not ins	stallatio	on)?		
Address:					Conta	ct Pers	son:					
City:				State:				Zip	:	-		
Email:				Phone: ()	-		Fax	: ()	-	
Fire Department (if app	plicable)											
Name:												
Address:					Conta	ct Pers	son:					
City:				State:				Zip:		-		
Email:				Phone: ()	-		Fax	: ()	-	
3) Ohio Asbestos Ha	zard Evaluation Specialis	t and Evaluation	Procedure								Re	vised?
Evaluation Specialist: N	Natt Geiger			C	Certification	1#: E	S 35832	Ex	piratio	n Date: 1	0 / 14 / 2018	
_	nalytical methods, emplo ry II non-friable asbestos-	•	•	f and to 6							material (RACN explain Below):	1) and
4) Procedures to be	followed should unexpe	ted RACM be dis	covered (ch	eck all tl	hat apply)						Re	vised?
Stop work and kee	p wet 🔀 Evac	uate area	⊠ De	emarcate	area		⊠ c	ontact li	censed	abateme	ent contractor	
Contact district off	ice/local air authority											
Other (Explain):												
5) Planned Demolition	on (check all that apply)										Re	vised?
	ork to be performed and ire Training	method(s) to be on the detection of the			_		·		Explain):		
Description of affected facility components (include attachment if necessary):												

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and Engineering Controls (if asbestos is being abated) Revised?									Revised?	
For the material listed in each ensure proper waste handling:		e(s) of ACM to be abat	ted, engineerir	ng con	trols and work pra	ictices to	be used	to minim	nize emis	sions and
Type of ACM to be abated:	of ACM to be abated: Surfacing Mechanical Other									
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE		AFD	Oth	ier:			
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechan	ical	Other:	•				
7) Asbestos Waste Transpor	ter (if applicable)									Revised?
Transporter #1 Name:										
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	=		Fax: ()	-	
Transporter #2 Name (if applic	able):									
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
8) Asbestos Waste Disposal	Site (if applicable)									Revised?
Name:										
Address:				Cont	act Person:					
City:			State:	State: Zip: -						
Email:			Phone: ()	-	ı	Fax: ()	-	
9) Emergency Demolition (co	omplete if you checked "	Emergency" above ar	nd "Demolitio	n" for	any project)					Revised?
A copy of the issued order, inc	luding the following infor	mation, must be attac	ched to this no	otifica	tion.					
Government Official Issuing Or	der:		Title:							
Agency:			Authority of Order (Citation of Code):							
Date of Order: / /			Demolitio	Demolition Date: / /						
10) Emergency Renovation/A	batement (complete if y	ou checked "Emergen	ncy" above an	d "Rei	novation/Abateme	ent" for a	ny proje	ct)		Revised?
Date of Emergency: / /			Time of E	merge	ency: : \Box] a.m. [D.m.			
Description of Sudden, Unexp	ected Event:									
Explanation of how the event	caused unsafe conditions	or equipment damag	je:							
11) Attestation										Revised?
In accordance with Ohio Admin Administrative Code will super prohibited by law and I certify	vise the stripping and ren	noval described by thi	is notification.	I ack	nowledge that the					
Signature:					Date: /	/				
Name:			Title:							
Organization:										



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	#:								
A. Facility Descr	iption								Revised?	
Building Name (if a	pplicable): SUI	M 00076 09130		Site Location (specific): Jct Ir 76 And Sr 93						
Address: 41°03'40.3	13"N 81°33'02	77"W				Cour	ity: Summit			
City: Akron				State:	ОН	Zip: 4	14307 -			
Building Size (squar	e feet): 22,5	502		No.	of Floors:			Age: 54		
Present Use: Bridge	e			Prio	r Use:					
B. Type of Operation (check all that apply) Revised?										
☐ Demolition	⊠ Reno	ovation/Abatement – Typ	pe: 🔲 Removal	Repa	air 🗌 Encapsul	ation 🔲 E	inclosure			
C. Asbestos Pres	sent (check on	ne)							Revised?	
☐ Yes 🛛 No	[No, previously abated	l Year A	bated:						
D. Approximate	Amount of As	sbestos-Containing Mate	erials (complete	table belov	w and Section 1#	6 if asbestos	is present)		Revised?	
			Material to	be Remove	ed		Ма	aterial NOT to b	e Removed	
			Non-fria	ble Asbesto	os-Containing Ma	terial	Non-frial	ole Asbestos-Co	ontaining Material	
		RACM	Catego	ry I	Catego	ory II	Categ	gory I	Category II	
Pipes (linear feet)										
Surface area on oth components (ft²)	er facility									
Volume if length or be measured (ft ³)	area cannot									
E. Asbestos Aba	tement Sched	lule and Abatement Spe	cialist (original n	otification	is required 10 w	orking days	prior to the sta	ert of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/		Cor	nplete Date:	/ /		
(Shift 1) Time	Monday	y Tuesday	Wednes	day	Thursday	Fric	lay	Saturday	Sunday	
start/end on site										
Abatement Speciali	st Name:			Certificat	tion #: AS			Expiration Da	te: / /	
(Shift 1) Time	Monday	y Tuesday	Wednes	day	Thursday	Fric	lay	Saturday	Sunday	
start/end on site										
Abatement Speciali	st Name:			Certificat	tion #: AS			Expiration Da	te: / /	
F. Demolition Co	ontractor (if a	pplicable)							Revised?	
Name:										
Address: Contact Person:										
City:				State:			Zip:	-		
Email:				Phone: () -		Fax:	()	-	
G. Demolition So	chedule (origi	nal notification is requir	ed 10 working da	ays prior to	the start of wor	k)	•		Revised?	
Start Date: / /					Complete Date: / /					
H. Project Hold				-					Revised?	
Hold Begin Date:	Hold Begin Date: / / Work Resume Date: / /									

Columbus

Cleveland

Dayton

November 28, 2018

Richard E. Rockich, P.E Director of Operations E.L. Robinson Engineering 1468 West 9th Street, Suite 500 Cleveland, Ohio 44113 (216) 452-1890

Subject: Asbestos Inspection of the SUM 00076 09560 (I-76) Bridge (SFN #7703457) over Bowery Street & Ohio Canal, Akron, Ohio 44311 (L&A 18-0568)

Dear Mr. Rockich:

On November 16, 2018 Mr. Jordan Mederer, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35005) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc (L&A) conducted an asbestos survey of SUM 00076 09560 (I-76) Bridge (SFN #7703457) over Bowery Street & Ohio Canal, Akron, Ohio 44311. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and asbestos containing materials were listed. The material identified in the provided bridge plans is listed as a 2" Electric Conduit (Asbestos-cement, concrete encased).

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Table II - Gaspectou materiale								
Material	Locations	Friability						
Parapet Wall Expansion Joint	Above Deck – North and South Sides	Non Friable						
Pillar Pad	Below Deck Around Pillars	Non Friable						
Grey Bridge Expansion Joint	At Expansions – East & West Ends	Non Friable						
Reflector Caulking	Above Deck – on Parapet Walls	Non Friable						
Parapet Wall Expansion Pad	Above Deck – on Parapet Walls	Non Friable						
Steel Rail Paint	Below Deck – Throughout	Non Friable						
White Paint on Concrete	Above and Below Deck – Throughout	Non Friable						

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Parapet Wall Expansion Joint – South Side, West End	No Asbestos Detected
2	Parapet Wall Expansion Joint - South Side, West End	No Asbestos Detected
3	Parapet Wall Expansion Joint - South Side, West End	No Asbestos Detected
4	Pillar Pad – South Side, Middle	No Asbestos Detected
5	Pillar Pad - South Side, Middle	No Asbestos Detected
6	Pillar Pad - South Side, Middle	No Asbestos Detected
7	Grey Bridge Expansion Joint – South Side, West End	No Asbestos Detected
8	Grey Bridge Expansion Joint – South Side, East End	No Asbestos Detected
9	Grey Bridge Expansion Joint – South Side, East End	No Asbestos Detected
10	Reflector Caulking - South Side, West End	No Asbestos Detected
11	Reflector Caulking – South Side, Middle	No Asbestos Detected
12	Reflector Caulking – South Side, Middle	No Asbestos Detected
13	Parapet Wall Expansion Pad South Side, West End	No Asbestos Detected
14	Parapet Wall Expansion Pad – South Side, Middle	No Asbestos Detected
15	Parapet Wall Expansion Pad - South Side, East End	No Asbestos Detected
16	Steel Rail Paint - South Side, East End	No Asbestos Detected
17	Steel Rail Paint - South Side, West End	No Asbestos Detected
18	Steel Rail Paint – North Side, West End	No Asbestos Detected
19	White Paint on Concrete – West End Below Deck	No Asbestos Detected
20	White Paint on Concrete – West End Below Deck	No Asbestos Detected
21	White Paint on Concrete – West End Below Deck	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Materials Assumed to be Asbestos-Containing

L&A noted mention of an existing 2" Electric Conduit (Asbestos-cement, concrete encased) on the bridge plans provided. This material was not observed as part of the assessment. The material is assumed to be buried and run parallel with Bowery Street. Based off of the quantity given in the bridge plans L&A estimates a total quantity of 300 linear feet (150 square feet), should this material be encountered during renovation or demolition activities, L&A recommends that work be stopped and the material should be considered to be ACM.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Jordan Mederer and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the referenced bridge plans - Bowery Street Bridge-1961.

Appendix D contains the Bulk Sample Location Diagram.

Appendix E contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On November 16, 2018 Mr. Jordan Mederer, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35005) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 09560 (I-76) Bridge (SFN #7703457) over Bowery Street & Ohio Canal, Akron, Ohio 44311. None of the materials sampled were found to be Asbestos Containing Material as defined by U.S. EPA/NESHAP regulations. However, mention of an existing 2" Electric Conduit (Asbestos-cement, concrete encased) was mentioned in the bridge plans.

If you have any questions, please contact Jordan Mederer at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Matt & Teiger

Project Manager

Jordan Mederer, AHES 35005 HBM Department Manager

Pollen

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

July 06, 2018

Jordan R Mederer Lawhon & Associates Inc. 1441 King Avenue Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35005 Expiration Date: 08/08/2019

Dear Jordan R Mederer:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Mark Needham

Manager, Asbestos Program Division of Air Pollution Control

Mark JS Needhan

State of Ohio Environmental Protection Agency Asbestos Program

Asbestos Hazard Evaluation Specialist



Jordan R Mederer Lawhon & Associates Inc 1441 King Avenue Nio Environmental Columbus OH 43212n Agency

Certification Number ES35005

Expiration Date 08/08/2019

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Jordan Mederer

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: June 20, 2018

Course Director:

Kurt ∜arga

Expiration Date: June 20, 2019

Examination Date: June 20, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6430 & ITNMPR-6430



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

September 05, 2018

Matthew A Geiger Lawhon & Associates, Inc 1441 King Ave Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2019

Dear Matthew A Geiger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely.

Mark Needham

Manager, Asbestos Program
Division of Air Pollution Control

Mark JS Needlan

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Matthew A Gelger
Lawhon & Associates, Inc
1441 King Ave
Columbus OH 43212
Certification Number
Expiration Date
10/14/2019

This certification is issued pursuant to Revised Code
Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matthew Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: July 18, 2018

Course Director: _

Kurt Varga

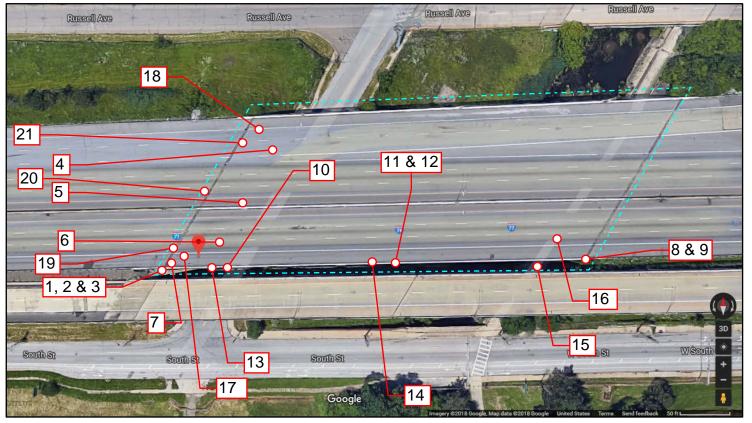
Expiration Date: July 18, 2019

Examination Date: July 18, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6434 & ITNMPR-6434

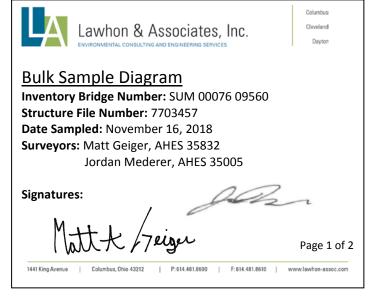
APPENDIX B BULK SAMPLE DIAGRAM





















Cleveland

Bulk Sample Diagram

Inventory Bridge Number: SUM 00076 09560

Structure File Number: 7703457

Date Sampled: November 16, 2018

Surveyors: Matt Geiger, AHES 35832

Jordan Mederer, AHES 35005

Signatures:

Tatt & Teiger
Page 2 of 2

1441 King Avenue | Columbus, Ohio 43212 | P:614.481.8600 | F:614.481.8610 | www.lawhon-assoc.com

Appendix C PROVIDED BRIDGE PLANS - BOWERY STREET BRIDGE-1961

1) Backfill after piles are driven shall be included for payment in Item, Special, "Preboring for Piling" and shall conform to Item I-22 of the Construction Specifications.
2) See Proposal Note.

directed by the Engineer. They shall be according

3) Pile test loads shall be applied if and where

required shall be 105 tons.

For estimated quantities tables

see Site Plan sheets.

for Bridge Nos. 17,17A,18, 19,20, and 21

to Sec. S-17 except that the maximum load

FED. ROADS DIV. NO. FED. AID PROJ. NO. 94 179

SUMMIT COUNTY CITY OF AKRON AKRON EXPRESSWAY SYSTEM SUM -18 - 10.02

refractor, bracket attachments, 15-foot steel bracket, shims, anchor U-bolts, handhole, anchor base, grounding lug, grounding lead, leaf covers, attachments of cable grips to "J" hooks, insulating sleeves, screws, bolts, nuts, washers and all modifications and incidentals required.

- "Ramp Lighting Unit On Structure," per each, and shall include 24'-9" steel pole for 30'-0" mounting height on ramp bridge, 10,000 lumen luminaire, Type II refractor, 8-foot steel bracket arm, and all features required for "Expressway Lighting Unit On Structure,"
- "Two-Inch Electric Conduit (Asbestos-Cement), Concrete, Encased", per lineal foot, and shall include excavation, backfill, duct, forms for concrete encasement, concrete, conditioning ducts, adaptors for connections to threaded conduit, and all incidentals.
- "Service Panel," for underpass lighting, per each, and shall include NEMA Type 4 enclosure, underground service conductors, vertical 2-inch metallic conduit in pier conductors, vertical 2-inch metallic conduit in pier and on pole for service, safety switch, contactor, photo-cell control unit, mountings, all inter-connecting conduits, grounding, feeders to service, all extra wiring and cable not specifically called for, pigtails, all connections, terminals, splices, conduit adapters, locknuts, entrance fittings, insulating bushings, condulets, mounting bolts, nuts, washers and spacers. Horizontal underground duct portion will be paid for under Item C.
- "Fluorescent Underpass Light," per each, and shall include fixture, 2 lamps, 120 volt dual, high power factor, low starting temperature ballast, brackets, fixture wire, 6" by 6" by 4" junction box, bosses, branch conductors to junction box, all connections and splices, 4-inch vinyl-jacketed, flexible conduit to junction box, shock mounts, fittings, mounting lugs and fastenings.
- "Junction Box," for underpass lighting, per each, and shall include 8-inch by 8-inch by 4-inch junction box, cover, gasket, attachments, fittings, fastenings, conduit connections, and tap splices.
- "Parapet Junction Box," for deck lighting crossovers, per each, and shall include 16-inch by 12-inch by 6-inch junction box, and all features required for "Junction Box," Item F, excluding splices.
- "Two-Inch Electric Conduit (Metal)," per lineal foot, and shall include longitudinal conduits in parapets, sidewalks and wingwalls, crossovers, couplings, bushings, bends, reaming, threading, fittings, attachments, locknuts, expansion fittings, expansion and deflection fitting, conditioning conduits, grounding, fastenings, and No. 9 AWG galvanized iron pull-in wire.
- "Three-Quarter Inch Electric Conduit (Metal)," per lineal foot, and shall include all No. 10 AWG branch wiring, and all features required for "Two-Inch Electric Conduit (Metal)," excepting No. 9 pull-in
- "Electrical Ground," per each, and shall include extending No. 6 bare ground connections from wires in tops of fixed piers to beams of structures and brazing or bolting as required, stranded No. O bare wire embedded in the piers, brazed to pile or coiled under footing as required, and interconnections.
- Cable for series lighting and cable in poles and brackets will be installed under the portion of contract for lighting off structures. Anchor bolts and sleeves for lighting units on Bridges 18 and 19 will be paid for with structural steel.

16. BRICK SEWERS

Uncovering and backfilling of brick sewers called for on sheets 98,101,102 & 108 shall be performed at sufficient points to verify plan location of

BRIDGES NO. 15,16,17,17A,18,19,20 & 21 PART 12

HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK

ESTIMATED QUANTITIES FOR BRIDGES 15 AND 16 AND GENERAL NOTES

AKRON EXPRESSWAY SYSTEM

AKRON

DATE 5.31-61 DATE

SUMMIT COUNTY

DATE 7-11-6 DATE 8-4-61 917 SHEET 94

RAILROAD FORCE ACCOUNT WORK ERIE-LACKAWANNA RAILROAD COMPANY

1. Engineering and Inspection

2. Trackwork

3. Signal and communication Lines

PENNSYLVANIA RAILROAD COMPANY

1. Engineering and Inspection

2. Communication Work

3. Track work

BALTIMORE and OHIO RAILROAD COMPANY

1. Preliminary Engineering

2. Construction Engineering

NOTE: Plans for Force Account Work may be seen in the Division Office, the Bureau of Bridges, Construction Bureau, and the Office of Contract Sales in Columbus, or at the respective offices of each Railroad.

	ESTIMATED QUANTIT	IES FOR	BRIDGES	15 AND 16					
Item	Description	Unit	Piers	Abutments	N.E. S.E. Wingwalls	Super- structure	General	Total	
E-2	Cofferdams, Cribs and Sheeting	Lump Sum				·	Lump Sum	Lump Sum	
	Excavation for Structures (Unclassified)	Cu. Yd.	1,830	1,810	203			3,843	v
	Concrete Slope Protection	Sq. Yd.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 .,,	1 200	†	1,345	1,345	
	Class "C" Concrete (Superstructure)	Cu. Yd.				3,460	1,373	3,460	
	Class "C" Concrete (Pier caps and shafts)	Cu.Yd.	825		 	3,700		825	v
	Class "C" Concrete (Pier caps and columns)	Cu.Yd.	542					542	.
	Class "C" Concrete (East abutment above footings)	Cu.Yd.		675				675	√
	Class "C" Concrete (N.E. and S.E. Wingwalls above footings)	Cu.Yd.		1 0,0	100			100	
	Class "E" Concrete (Pier, abutment and wingwall footings)	Cu. Yd.	875	600	50			1,525	\
	Class "E" Concrete (Stub abutments above footings)	Cu. Yd.		272	1 30			272	
	Waterproofing Premolded Sealing Strip		(292,550	126	79			205	~
	Reinforcing Steel		(291,230)	214,620	20,800	919,370	· · · · · · · · · · · · · · · · · · ·	1,446,020	VIAA7.145
	Structural Steel	Lbs.	201,200	330	895	4,160,000		4,160,000	
<u></u>	Field Painting of Structural Steel	Lbs.			—	4,160,000		4,160,000	<u> </u>
1	1" Preformed Gray Rubber Exp. Jt. Filler	Sq.Ft.		101	107	7,700,000	_	208	
	Type "A" Aluminum Railing (Including parapet)	Lin.Ft.		231	1 707	2,571		2,802	
	Barrier Railing (Guardrail, steel beam type, deep)	Lin.Ft.		237		531		531	/
	First Test Pile	Lump Sum				337	Lump Sum	Lump Sum	,/
 	Steel Bearing Piles (10 BP 42)	Lin.Ft.	13,060	4,725	720		Lump Sum	18,505	· /
	Expressway Lighting Unit on Structure	Each	70,000	1,,,25	120	11		11	/
	Ramp Lighting Unit on Structure	Each				8		8	/
	2" Electric Conduit (Metal)	Lin.Ft.				2,200		2,200	/
	2" Electric Conduit (Asbestos-cement, concrete encased)	Lin.Ft.				2,200	270 - 240	270 - (240)	1
	3" Electric Conduit (Metal)	Lin.Ft.				1,200	210 240	1,200	€
 	Junction Box	Each				7,200		7,200	4
	Fluorescent Underpass Light	Each				37		37	<i>'</i>
———	Service Panel	Each				3		3	
	Electrical Ground	Each	5					5	Y
	Parapet Junction Box	Each				5		5	
	Porous Backfill	Cu.Yd.		495	63			558	1
	Type A Scuppers (as per plan)	Each		1		9		9	V
	Type B Scuppers (as per plan)	Each				30		30	√
	Type A Pipe Trough (Including specials, as per plan)	Each			†	3		3	J
	Type B Pipe Trough (Including specials, as per plan)	Each		1		9		9	/ /
	8" ¢ Bituminous Coated C.M.P. (Including specials)	Lin.Ft.		77				77	1
	8" \(\rightarrow Perforated Bituminous Coated C.M.P. (Including specials)	Lin.Ft.		190				190	<i>J</i>
	6 W.I. or Galv. Steel Downspouts (Including fastenings and specials)	Lin.Ft.	22			· .	<u> </u>	22	J
	8 W.I. or Galv. Steel Downspouts (Including fastenings and specials)	Lin.Ft.	127	93	·			220	v ·
	Preboring for Piling (1)	Lin.Ft.	1,555	1.25	·			1,680	
	Water Reducing, Set-Retarding Admixture (2)	Each	.,000			3,460		3,460	
<u> </u>	First Pile Test Load 3	Lump Sun	7			,,,,,,	Lump Sum	Lump Sum	
	Subsequent Pile Test Load 3	Each	·				/	1	

The underground portion of conduit shall be 2-inch, Type II, round bore, long tapered-sleeve joint fiber or asbestos cement conduits, equal to Johns-Manville's Transite or Orange-burg's No-Crete. Concrete encasement shall be not less than 3 inches of Class C concrete.

Junction boxes for underpass lighting shall be unflanged type for surface mounting, weatherproof, shall have cast bosses for not less than five full threads, and shall be complete with cover, gasket, hot-dip galvanized finish, and brass cover screws. The 6-inch boxes shall be not less than 6" thick; the 8-inch boxes shall be not less than 7/32" thick. The parapet junction boxes for deck lighting crossovers shall be similar, but shall be inside-flanged, recessed cover cast iron boxes for flush mounting in masonry, shall be not less than 16" by 12" by 6" by 9/32" thick, and shall be 0.2. Type YU161206, or approved equal.

c. Construction Methods

The installation as a whole shall be carried out in conformance with the requirements herein stated and implied, and upon completion of the work shall present a neat and workmanlike finished appearance. Safe construction and operating practices meeting the requirements of the National Electric Safety Code shall be maintained.

Poles shall be carefully set and they shall be raked so that the back tapered side is vertical. The careful aligning and grading of poles is considered to be an essential feature of the installation. The work shall be as nearly perfect as practicable, and no perceptible tolerances will be permitted. In order to accomplish the desired perfection of alignment of the luminaires, the poles shall be carefully aligned in place, supported by shims as required, and securely bolted.

The poles and brackets shall have inside and outside a factory-applied primer or shop coat of paint conforming to the manufacturer's standard practice, and shall be given two field coats of aluminum paint conforming to Sec. M-912. The first coat shall be suitably tinted.

The installation of all luminaires and equipment shall conform to the recommendations of the equipment manufacturers and the practice of the Ohio Edison Company.

All luminaires shall be carefully adjusted after pole erection and plumbing operations are complete. On roadway sections without grades, luminaires shall be perfectly horizontal according to the manufacturer's instructions and the design of the luminaires. All luminaires shall be horizontal transversely to the roadway and, in addition, luminaires where on grades shall be rotated on bracket pipes so as to be normal to the surface of the roadway in the longitudinal plane.

Cable ends at the luminaires shall be reinforced back six inches from the ends by wrapping with glass tape and covering with clear insulating lacquer.

Ground each lighting unit by a No. 6 soft bare copper grounding conductor from the grounding lug in each pole base to grounding bushings on conduits. Ground the longitudinal conduit runs along each side of each structure at each end where they enter ground. Ground by a No. 6 soft copper wire connected to conduit by a T&B ground fitting for rigid conduit and to a vertical 1-inch by 10-foot round Copperweld ground rod by an vertical 1-inch by 10-foot round Copperweld ground rod by an approved clamp. If the resultant resistance is over 15 ohms, additional rods shall be driven to lower resistance.

Exposed conduits for underpass lighting shall be firmly clamped to the structures to prevent rattling, shall be run in lines parallel and perpendicular to lines of structures and shall be so placed that dirt will not accumulate around them. There shall be at least one inch clearance between conduits. If on a horizontal surface for over one foot, they shall clear the surface by at least three inches. Adequate approved provision for the movement of conduits shall be made wherever conduits cross expansion or fixed joints in the supporting structures. Expansion joints shall be equal to 0.Z. Type AX. The Contractor shall provide copper bonding jumpers across expansion joints in

All superstructure steelwork shall be grounded. Stranded No. O bare wires shall be embedded in the outside columns or in the shafts of the fixed piers. The lower ends of the wires in the shafts of the fixed piers. The lower ends of the wires shall be brazed to one of the steel piles or, in the case of spread type footings, shall terminate in a 25 ft. length coiled under the footing and separated from the concrete by two layers of tar paper. The upper ends shall extend not less than 18 inches above the top of concrete to provide for a suitable splice and extension to the superstructure. Connections to the superstructures of bridges shall be with No. 6 bare stranded, tinned copper wires brazed or bolted to beam or girder flanges and to the No. 0 copper wires in the piers.

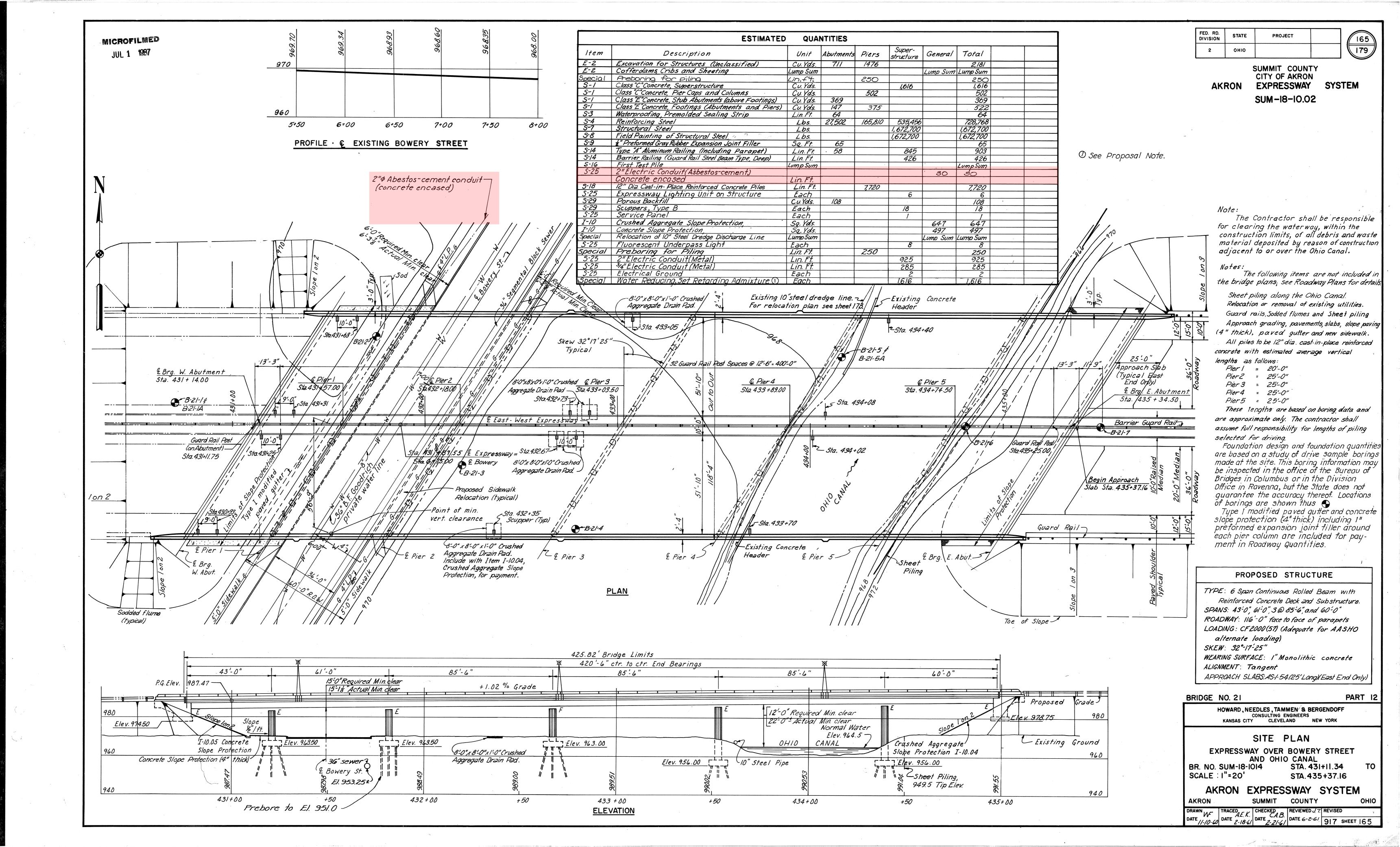
All series lighting work off the bridge structures is included in the Roadway plans, and wiring is completed up to luminaires. The Contractor for the Roadway portion of contract will pull all series cables in conduits on structures, and connect to lamp receptacles in each lighting unit.

For lighting notes applicable to installations off structures, see Roadway plans.

d. Payment for Roadway and Underpass Lighting on Structures

Payment for items of roadway and underpass lighting on the structures will be made at the contract unit price bid for the following items. Payment shall constitute full compensation for furnishing all materials, labor, equipment, tools and inci-dentals necessary, whether specifically mentioned or not, to com-plete the entire work, installed, accepted, and in operating condition, according to the plans and specifications. Payment will be made as follows:

> "Expressway Lighting Unit On Structure," per each, and shall include 27'-0" steel pole for 32'-3" mounting height on expressway bridge, 15,000 lumen luminaire, high voltage socket, film disc cutout, lamp, Type IV



Appendix D LABORATORY RESULTS AND CHAIN OF CUSTODY



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/27/2018

1441 King Avenue Report No.: 577995 - PLM

Columbus OH 43212 Project: SUM - 00076 - 09560

Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657530 Analyst Observation: Black Fibrous Location: South Side West End

Client No.: 1 Client Description: Parapet Wall Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 85 Cellulose 15

Lab No.: 6657531 Analyst Observation: Black Fibrous Location: South Side West End

Client No.: 2 Client Description: Parapet Wall Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 85 Cellulose 15

Lab No.: 6657532 Analyst Observation: Black/White Fibrous Location: South Side West End

Client No.: 3 Client Description: Parapet Wall Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 20

Lab No.: 6657533 Analyst Observation: Black Pad Location: South Side Middle

Client No.: 4 Client Description: Pillar Pad Below Deck Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 85 Cellulose 1:

Lab No.: 6657534 Analyst Observation: Black Pad Location: South Side Middle

Client No.: 5 Client Description: Pillar Pad Below Deck Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 85 Cellulose 15

Lab No.: 6657535 Analyst Observation: Black Pad Location: South Side Middle

Client No.: 6 Client Description: Pillar Pad Below Deck Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 85 Cellulose 15

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/27/2018

Signature:

Analyst: Rebecca Hargrove

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 11/27/2018 4:11:35 Page 1 of 7



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/27/2018

1441 King Avenue Report No.: 577995 - PLM

Columbus OH 43212 Project: SUM - 00076 - 09560

Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

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Lab No.: 6657536Analyst Observation: Grey Expansion JointLocation: South Side West End

Client No.: 7 Client Description: Bridge Grey Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657537 Analyst Observation: Grey Expansion Joint Location: South Side East End

Client No.: 8 Client Description: Bridge Grey Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657538 Analyst Observation: Grey Expansion Joint Location: South Side East End

Client No.: 9 Client Description: Bridge Grey Expansion Joint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657539 Analyst Observation: Grey Caulk Location: South Side West End

Client No.: 10 Client Description: Reflector Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657540 Analyst Observation: Grey Caulk Location: South Side Middle

Client No.: 11 Client Description: Reflector Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657541 Analyst Observation: Grey Caulk Location: South Side Middle

Client No.: 12 Client Description: Reflector Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/27/2018

Dated: 11/27/2018 4:11:35

Signature:

Analyst: Rebecca Hargrove

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 2 of 7



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/27/2018

1441 King Avenue Report No.: 577995 - PLM

Columbus OH 43212 Project: SUM - 00076 - 09560

Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

.....

Lab No.: 6657542 Analyst Observation: Grey Pad Location: South Side West End

Client No.: 13 Client Description: Parapet Wall Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657543 Analyst Observation: Grey Pad Location: South Side Middle

Client No.: 14 Client Description: Parapet Wall Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6657544 Analyst Observation: Grey Pad Location: South Side East End

Client No.: 15 Client Description: Parapet Wall Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657545 Analyst Observation: Grey/Brown Paint Location: South Side East End

Client No.: 16 Client Description: Steel Rail Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657546 Analyst Observation: Grey/Brown Paint Location: South Side West End

Client No.: 17 Client Description: Steel Rail Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6657547 Analyst Observation: Grey/Brown Paint Location: North Side West End

Client No.: 18 Client Description: Steel Rail Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/21/2018

Date Analyzed: 11/27/2018

Signature:

Analyst: Rebecca Hargrove

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 11/27/2018 4:11:36 Page 3 of 7



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/27/2018

1441 King Avenue Report No.: 577995 - PLM

Columbus OH 43212 Project: SUM - 00076 - 09560

> Project No.: 18-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657548 **Analyst Observation:** White Paint Location: West End Below Deck

Client Description: White Paint On Concrete Client No.: 19 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Location: West End Below Deck **Lab No.:** 6657549 **Analyst Observation:** White Paint

Client No.: 20 Client Description: White Paint On Concrete **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657550 **Analyst Observation:** White Paint Location: West End Below Deck

Client Description: White Paint On Concrete **Facility:** Client No.: 21

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

11/21/2018 Date Received:

11/27/2018 Date Analyzed:

Dated: 11/27/2018 4:11:36

Signature: Rebecca Hargrove

Analyst:

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Frank Tuanfol

Page 4 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/27/2018

1441 King Avenue Report No.: 577995 - PLM

Columbus OH 43212 Project: SUM - 00076 - 09560

Client: LAW411 Project No.: 18-0568

Appendix to Analytical Report

Customer Contact:

Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

Dated: 11/27/2018 4:11:36 Page 5 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/27/2018

1441 King Avenue Report No.: 577995 - PLM

Columbus OH 43212 Project: SUM - 00076 - 09560

Client: LAW411 Project No.: 18-0568

Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 11/27/2018 4:11:36 Page 6 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc.

1441 King Avenue

Columbus OH 43212

Client: LAW411

Report Date: 11/27/2018

Report No.: 577995 - PLM

Project: SUM - 00076 - 09560

Project No.: 18-0568

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 11/27/2018 4:11:36 Page 7 of 7

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

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Date: 11-16-18

Turn around: 3-007

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD Project Name: Project No.: Project Contact: Sampler (print): 18-0568 SUM Matt Griger 00076 09560 Homog. Sample I.D. No. Sample /Homogeneous Area Description Sample Location Remarks Area Wall Mill Expansion Joint South Side 6657530 Paryect Wist End 68575**3**3 3/66iM Pillar Below Dock 2 685753 7 6857535 3 End Bridge grez Sooth side west BARANSI DA Joins East_ End 665**753**8 a Caulhing west End 10 South Side U Reflector Middle 11 5657540 U Parapet wall Etpanison AFLOZ Sive west End Million 14 East End K 16 Paint SUIZ NEWS Bost And Rail Steel して Eng West JOST AFROM 4252 5 6 5 7 5 **4 7** □ Stop 1st Positive <u>△</u> Analyze All Samples SAMPLE ANALYSIS BY EPA METHOD 600/R-93/116 UNLESS OTHERWISE NOTED. Date / Time Relinquished by: (signature) Relinquished by: (signature) Received by: (signature) Date / Time Date / Time Received by: (signature) Date / Time 12 230m

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

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ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:			Project No.:	1 -	t Contact:	Sampler	(print):	Si	gnature
17000 MUZ	6 B	9560	18-856	8 Mo	H Triga		- Inches)	WHOTY/
Sample I.D. No.	Homog. Area No.	Sample /Homo	ogeneous Area Descri	iption	Si	ample Location		*	Remarks
19	7	white faint	- ON Concr	rele \$		west 12m	Below	Peck 565	7548
20	チ					<u> </u>			7549
21	7							585	7550
							Λ		
						MALA BARRATA AA			
SH		***************************************							
SAMPLE ANALYSIS B	Y EPA MET	THOD 600/R-93/116 UN	LESS OTHERWIS	ENOTED.	7-18			☐ Stop 1st Positiv	Green comments.
Flelinquished by: (signature	e) #D	ate / Time Received	by: (signature)	Date / Time	Relinquished by: (sign	ature) Date / Time	Receive	ed by: (signature)	Date / Time

Distributor: White - File; Yellow - Lab

Appendix E OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed: /	 ' /		Received:	/	/		Hand-Deli	vered
1) Notification Infor	rmation (Check all that a	 oply)	<u> </u>							-	·- 	
☑ Original ☐ Rev	vision # (count):	☐ Installation	☐ Emerge	ency [Annual		Cancellation	County	:			
2) Owner, Asbestos	Abatement Contractor, E	Billing and Fire De	partment I	nformati	on	,					R	evised?
Owner									·			
Name: ODOT District 4	ļ								Is thi	s a comp	any? 🛛 Yes	☐ No
Address: 2088 South	Arlington Road				Conta	ct Pers	son:					
City: Akron				State: Oh	nio			Zip:	44306	-		
Email:				Phone: (330) 78	6 -	3100	Fax	:(330) 786	- 2226	
Asbestos Abatement C	Contractor (if applicable)							, i				
Name:					License #	: AC			Ex	piration [Date: / /	/
Address:					Conta	ct Pers	son:					
City:				State:				Zip:	:	-		
Email:				Phone: ()	-		Fax	: ()	-	
Billing Contact												
Is this contact associat	ed with the \(\Boxed{\openstar}\) Owner,	Asbestos Aba	itement Cor	ntractor,	or 🔲 Den	nolitio	n Contractor (i	if not ins	stallatio	n)?		
Address:					Conta	ct Pers	son:					
City:				State:				Zip	:	-		
Email:				Phone: ()	-		Fax	: ()	-	
Fire Department (if ap	plicable)											
Name:												
Address:					Conta	ct Pers	son:					
City:				State:				Zip:		-		
Email:				Phone: ()	-		Fax	: ()	-	
3) Ohio Asbestos Ha	zard Evaluation Specialis	t and Evaluation	Procedure								R	evised?
Evaluation Specialist: N	Matt Geiger			C	Certification	1#: E	S 35832	Ex	piratio	n Date: 1	0 / 14 / 2018	
_	nalytical methods, emplo ry II non-friable asbestos-	•	•	f and to (material (RAC xplain Below):	
4) Procedures to be	followed should unexpe	cted RACM be dis	covered (ch	eck all t	hat apply)						R	evised?
Stop work and kee	ep wet 🛛 Evac	uate area	⊠ De	emarcate	area		⊠ c	ontact li	censed	abateme	ent contractor	
Contact district off	fice/local air authority											
Other (Explain):												
5) Planned Demolitie	on (check all that apply)										R	evised?
	ork to be performed and Fire Training	method(s) to be of ethods			_		·		Explain):		
Description of affected	d facility components (inc	lude attachment	if necessary):								

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and	Engineering Controls (i	asbestos is being ab	ated)					Revised? 📙
For the material listed in each ensure proper waste handling		e(s) of ACM to be aba	ated, engineering	g con	trols and work p	ractices to be us	ed to minin	nize emissions and
Type of ACM to be abated:	Surfacing	☐ Mechanical	Other					
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE		AFD	Other:		
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechani	cal	Other:			
7) Asbestos Waste Transpor	ter (if applicable)	·						Revised?
Transporter #1 Name:								
Address:				Conta	act Person:			
City:			State:			Zip:	-	
Email:			Phone: ()	-	Fax: ()	-
Transporter #2 Name (if applic	cable):							
Address:				Conta	act Person:			
City:			State:			Zip:	-	
Email:			Phone: ()	-	Fax: ()	-
8) Asbestos Waste Disposal	Site (if applicable)							Revised?
Name:								
Address:				Conta	act Person:			
City:			State:			Zip:	-	
Email:			Phone: ()	-	Fax: ()	-
9) Emergency Demolition (c	omplete if you checked	"Emergency" above a	and "Demolition	" for	any project)			Revised?
A copy of the issued order, inc	luding the following info	rmation, must be att	ached to this not	tificat	tion.			
Government Official Issuing O	rder:		Title:					
Agency:			Authority	of Or	der (Citation of C	Code):		
Date of Order: / /			Demolitio	n Date	e: / /			
10) Emergency Renovation/A	batement (complete if	you checked "Emerge	ency" above and	"Ren	novation/Abaten	nent" for any p	roject)	Revised?
Date of Emergency: / /			Time of Er	nerge	ency: :	☐ a.m. ☐ p.	m.	
Description of Sudden, Unexp	ected Event:							
Explanation of how the event	caused unsafe condition	s or equipment dama	ige:					
11) Attestation								Revised?
In accordance with Ohio Admi Administrative Code will super prohibited by law and I certify	vise the stripping and re	moval described by t	his notification.	I ackr	nowledge that th			
Signature:					Date:	/		
Name:			Title:					
Organization:								



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	# :									
A. Facility Descr	iption					-				Revised?	
Building Name (if a	pplicable): SUI	M 00076 09560		Site Lo	ocation (specific): 0	.40 Mi E	Of Sr 93				
Address: 41°03'42.6	60"N 81°32'34	.39"W					County	y: Summit			
City: Akron				State:	ОН		Zip: 44	307 -			
Building Size (squar	e feet): 67,8	324			No. of Floors:				Age: 55		
Present Use: Bridge	e				Prior Use:						
B. Type of Opera	ation (check a	ll that apply)								Revised?	
☐ Demolition	⊠ Reno	ovation/Abatement – Тур	oe: 🔲 Removal		Repair	sulation	☐ En	closure			
C. Asbestos Pres	sent (check on	ie)								Revised?	
⊠ Yes □ No		No, previously abated	l Year A	bated:							
D. Approximate	Amount of As	sbestos-Containing Mate	erials (complete	table b	elow and Section	1 #6 if as	bestos i	s present)		Revised?	
			Material to	be Ren	noved			Ma	aterial NOT to b	e Removed	
			Non-fria	ble Asb	estos-Containing N	Material		Non-friat	ole Asbestos-Co	s-Containing Material	
		RACM	Catego	ry I	Cate	egory II		Categ	ory I	Category II	
Pipes (linear feet)											
Surface area on oth components (ft ²)	ner facility									150	
Volume if length or be measured (ft ³)	area cannot										
E. Asbestos Aba	tement Sched	lule and Abatement Spe	cialist (original n	otifica	tion is required 10	working	days pr	ior to the sta	rt of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/			Com	plete Date:	/ /		
(Shift 1) Time	Monday	y Tuesday	Wednes	day	Thursday		Frida	у	Saturday	Sunday	
start/end on site											
Abatement Speciali	ist Name:			Certification #: AS			Expiratio		Expiration Da	te: / /	
(Shift 1) Time	Monday	y Tuesday	Wednes	day	Thursday		Frida	У	Saturday	Sunday	
start/end on site				ı					_		
Abatement Speciali	ist Name:			Certi	ification #: AS			Expiration Date: / /			
F. Demolition Co	ontractor (if a	pplicable)								Revised?	
Name:											
Address:					Contact P	erson:					
City:				State:				Zip:	-		
Email:				Phone	e: () -			Fax:	()	-	
G. Demolition Sc	chedule (origi	nal notification is requir	ed 10 working da	ays prio	or to the start of w	ork)				Revised?	
Start Date: /	/			Compl	ete Date: /	/					
H. Project Hold										Revised?	
Hold Begin Date:	/ /			Work I	Resume Date: /	/					

Columbus

Cleveland

Dayton

November 28, 2018

Richard E. Rockich, P.E Director of Operations E.L. Robinson Engineering 1468 West 9th Street, Suite 500 Cleveland, Ohio 44113 (216) 452-1890

Subject: Asbestos Inspection of the SUM 00076 09660 (I-76) Bridge (SFN #7703392) over Lakeshore Boulevard, Akron, Ohio 44311 (L&A 18-0568)

Dear Mr. Rockich:

On November 16, 2018 Mr. Jordan Mederer, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35005) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 09660 (I-76) Bridge (SFN #7703392) over Lakeshore Boulevard, Akron, Ohio 44311. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and asbestos containing materials were listed. The material identified in the provided bridge plans is listed as a 2" Electric Conduit (Asbestos-cement, concrete encased).

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability
Parapet Wall Pad	Above Deck – North and South Sides	Non Friable
Guard Rail / Bolt Mortar	Above Deck – North and South Sides	Non Friable
Road Tar	Above Deck – Throughout	Non Friable
Grey Bridge Expansion Joint	Above Deck – at Expansions	Non Friable
Bridge Slope Caulking	Below Deck – East and West Ends	Non Friable
Steel Beam Paint	Below Deck – Throughout	Non Friable
White Paint on Concrete	Above and Below Deck – Throughout	Non Friable

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Parapet Wall Pad – South Side, West End	No Asbestos Detected
2	Parapet Wall Pad – South Side, Middle	No Asbestos Detected
3	Parapet Wall Pad – South Side, East End	No Asbestos Detected
4	Guard Rail / Bolt Mortar – South Side, West End	No Asbestos Detected
5	Guard Rail / Bolt Mortar – South Side, Middle	No Asbestos Detected
6	Guard Rail / Bolt Mortar – South Side, Middle	No Asbestos Detected
7	Road Tar – South Side, West End	No Asbestos Detected
8	Road Tar – South Side, Middle	No Asbestos Detected
9	Road Tar – South Side, East End	No Asbestos Detected
10	Grey Bridge Expansion Joint – South Side, West End	No Asbestos Detected
11	Grey Bridge Expansion Joint – South Side, East End	No Asbestos Detected
12	Grey Bridge Expansion Joint – South Side, East End	No Asbestos Detected
13	Bridge Slope Caulking – West Side, Below Deck	No Asbestos Detected
14	Bridge Slope Caulking – West Side, Below Deck	No Asbestos Detected
15	Bridge Slope Caulking – West Side, Below Deck	No Asbestos Detected
16	Steel Beam Paint – West Side, Below Deck	No Asbestos Detected
17	Steel Beam Paint – West Side, Below Deck	No Asbestos Detected
18	Steel Beam Paint – West Side, Below Deck	No Asbestos Detected
19	White Paint on Concrete – West Side, Below Deck	No Asbestos Detected
20	White Paint on Concrete – East Side, Below Deck	No Asbestos Detected
21	White Paint on Concrete – South Side, Middle Above Deck	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Materials Assumed to be Asbestos-Containing

L&A noted mention of an existing 2" Electric Conduit (Asbestos-cement, concrete encased) on the bridge plans provided. This material was not observed as part of the assessment. The material is assumed to be buried and run parallel with Lakeshore Boulevard. Based off of the quantity given in the bridge plans L&A estimates a total quantity of 300 linear feet (150 ssquare feet), should this material be encountered during renovation or demolition activities. L&A recommends that work be stopped and the material should be considered to be ACM.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Jordan Mederer and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the referenced bridge plans - Bowery Street Bridge-1961.

Appendix D contains the Bulk Sample Location Diagram.

Appendix E contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On November 16, 2018 Mr. Jordan Mederer, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35005) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 09660 (I-76) Bridge (SFN #7703392) over Lakeshore Boulevard, Akron, Ohio 44311. None of the materials sampled were found to be Asbestos Containing Material as defined by U.S. EPA/NESHAP regulations. However, mention of an existing 2" Electric Conduit (Asbestos-cement, concrete encased) was mentioned in the bridge plans.

If you have any questions, please contact Jordan Mederer at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Matt & Teiger

Project Manager

Jordan Mederer, AHES 35005 HBM Department Manager

Pan

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

July 06, 2018

Jordan R Mederer Lawhon & Associates Inc 1441 King Avenue Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35005 Expiration Date: 08/08/2019

Dear Jordan R Mederer:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

50 West Town Street • Suite 700 • P.O. Box 1049 • Colum

If you have any questions, please call 614-644-0226.

Sincerely,

Mark Needham

Manager, Asbestos Program
Division of Air Pollution Control

Mark JS Needhan

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist



Jordan R Mederer
Lawhon & Associates Inc
1441 King Ayen Privironmental
Columbus PH 43212n Agency

Certification Number ES35005

Expiration Date 08/08/2019

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Jordan Mederer

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: June 20, 2018

Course Director:

Kurt ∜arga

Expiration Date: June 20, 2019

Examination Date: June 20, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6430 & ITNMPR-6430



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

September 05, 2018

Matthew A Geiger Lawhon & Associates, Inc 1441 King Ave Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2019

Dear Matthew A Geiger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely.

Mark Needham

Manager, Asbestos Program

Mark JS Needlan

Division of Air Pollution Control



The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matthew Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: July 18, 2018

Course Director: _

Kurt Varga

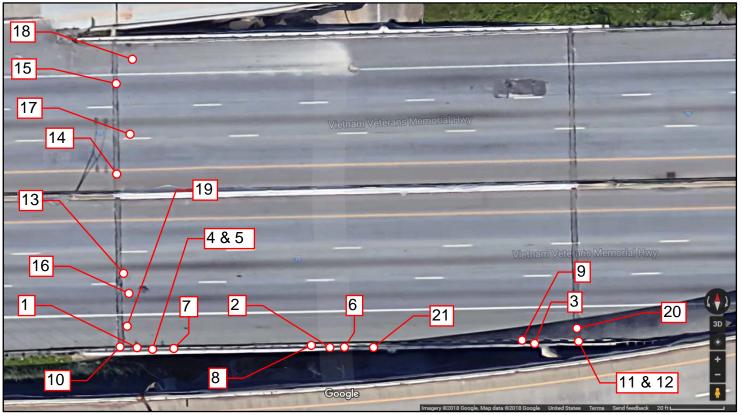
Expiration Date: July 18, 2019

Examination Date: July 18, 2018

Course Location: Columbus, Ohio

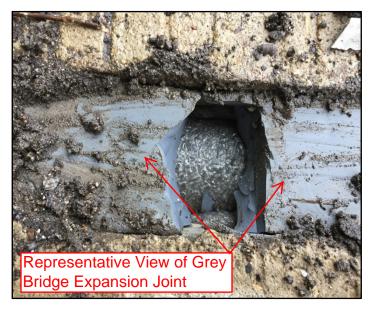
Certificate Numbers: ITNIR-6434 & ITNMPR-6434

APPENDIX B BULK SAMPLE DIAGRAM





















Bulk Sample Diagram

Inventory Bridge Number: SUM 00076 09660

Structure File Number: 7703392 Date Sampled: November 16, 2018 Surveyors: Matt Geiger, AHES 35832 Jordan Mederer, AHES 35005

Matt & Teiger

Signatures:

Page 2 of 2

1441 King Avenue | Columbus, Ohio 43212 | P:614.481.8600 | F:614.481.8610 |

Appendix C PROVIDED BRIDGE PLANS – LAKE SHOR BLVD BRIDGE-1961

1) Backfill after piles are driven shall be included for payment in Item, Special, "Preboring for Piling" and shall conform to Item I-22 of the Construction Specifications.
2) See Proposal Note.

directed by the Engineer. They shall be according

3) Pile test loads shall be applied if and where

required shall be 105 tons.

For estimated quantities tables

see Site Plan sheets.

for Bridge Nos. 17,17A,18, 19,20, and 21

to Sec. S-17 except that the maximum load

The underground portion of conduit shall be 2-inch. Tupe

II, round bore, long tapered-sleeve joint fiber or asbestos cement conduits, equal to Johns-Manville's Transite or Orange-burg's No-Crete. Concrete encasement shall be not less than 3 inches of Class C concrete.

Junction boxes for underpass lighting shall be unflanged type for surface mounting, weatherproof, shall have cast bosses for not less than five full threads, and shall be complete with cover, gasket, hot-dip galvanized finish, and brass cover screws. The 6-inch boxes shall be not less than 8 " thick; the 8-inch boxes shall be not less than 7/32" thick. The parapet junction boxes for deck lighting crossovers shall be similar, but shall be inside-flanged, recessed cover cast iron boxes for flush mounting in masonry, shall be not less than 16" by 12" by 6" by 9/32" thick, and shall be 0.Z. Type YU161206, or approved equal.

ance with the requirements herein stated and implied, and upon

finished appearance. Safe construction and operating practices meeting the requirements of the National Electric Safety Code shall be maintained.

Poles shall be carefully set and they shall be raked so that the back tapered side is vertical. The careful aligning

and grading of poles is considered to be an essential feature of the installation. The work shall be as nearly perfect as practicable, and no perceptible tolerances will be permitted. In order to accomplish the desired perfection of alignment of the luminaires, the poles shall be carefully aligned in place, supported by shims as required, and securely bolted.

The poles and brackets shall have inside and outside a

The installation of all luminaires and equipment shall conform to the recommendations of the equipment manufacturers and

All luminaires shall be carefully adjusted after pole erection and plumbing operations are complete. On roadway sections without grades, luminaires shall be perfectly horizontal according to the manufacturer's instructions and the design of the luminaires. All luminaires shall be horizontal transversely to

the roadway and, in addition, luminaires where on grades shall be rotated on bracket pipes so as to be normal to the surface of the roadway in the longitudinal plane.

Cable ends at the luminaires shall be reinforced back six inches from the ends by wrapping with glass tape and covering with clear insulating lacquer.

Ground each lighting unit by a No. 6 soft bare copper grounding conductor from the grounding lug in each pole base to grounding bushings on conduits. Ground the longitudinal conduit runs along each side of each structure at each end where they enter ground. Ground by a No. 6 soft copper wire connected to conduit by a T&B ground fitting for rigid conduit and to a vertical 1-inch by 10-foot round Copperweld ground rod by an

Exposed conduits for underpass lighting shall be firmly clamped to the structures to prevent rattling, shall be run in lines parallel and perpendicular to lines of structures and shall be so placed that dirt will not accumulate around them. There

shall be at least one inch clearance between conduits. If on a horizontal surface for over one foot, they shall clear the surface by at least three inches. Adequate approved provision for the movement of conduits shall be made wherever conduits cross

expansion or fixed joints in the supporting structures. Expansion joints shall be equal to 0.Z. Type AX. The Contractor

shall provide copper bonding jumpers across expansion joints in

All superstructure steelwork shall be grounded. Stranded No. O bare wires shall be embedded in the outside columns or in the shafts of the fixed piers. The lower ends of the wires

in the shafts of the fixed piers. The lower ends of the wires shall be brazed to one of the steel piles or, in the case of spread type footings, shall terminate in a 25 ft. length coiled under the footing and separated from the concrete by two layers of tar paper. The upper ends shall extend not less than 18 inches above the top of concrete to provide for a suitable splice and extension to the superstructure. Connections to the superstructures of bridges shall be with No. 6 bare stranded, tinned copper wires brazed or bolted to beam or girder flanges and to the No. 0 copper wires in the piers.

All series lighting work off the bridge structures is included in the Roadway plans, and wiring is completed up to luminaires. The Contractor for the Roadway portion of contract

will pull all series cables in conduits on structures, and con-

Payment for items of roadway and underpass lighting on the structures will be made at the contract unit price bid for the

for furnishing all materials, labor, equipment, tools and inci-dentals necessary, whether specifically mentioned or not, to com-plete the entire work, installed, accepted, and in operating condition, according to the plans and specifications. Payment will be made as follows:

following items. Payment shall constitute full compensation

For lighting notes applicable to installations off struc-

d. Payment for Roadway and Underpass Lighting on Structures

"Expressway Lighting Unit On Structure," per each, and shall include 27'-0" steel pole for 32'-3" mounting height on expressway bridge, 15,000 lumen luminaire,

high voltage socket, film disc cutout, lamp, Type IV

nect to lamp receptacles in each lighting unit.

tures, see Roadway plans.

vertical 1-inch by 10-foot round Copperweld ground rod by an approved clamp. If the resultant resistance is over 15 ohms,

additional rods shall be driven to lower resistance.

factory-applied primer or shop coat of paint conforming to the manufacturer's standard practice, and shall be given two field coats of aluminum paint conforming to Sec. M-912. The first

completion of the work shall present a neat and workmanlike

The installation as a whole shall be carried out in conform-

c. Construction Methods

coat shall be suitably tinted.

the practice of the Ohio Edison Company.

FED. ROADS DIV. NO. FED. AID PROJ. NO. 94 179

SUMMIT COUNTY CITY OF AKRON AKRON EXPRESSWAY SYSTEM SUM -18-10.02

refractor, bracket attachments, 15-foot steel bracket, shims, anchor U-bolts, handhole, anchor base, grounding lug, grounding lead, leaf covers, attachments of cable grips to "J" hooks, insulating sleeves, screws, bolts, nuts, washers and all modifications and incidentals required.

- "Ramp Lighting Unit On Structure," per each, and shall include 24'-9" steel pole for 30'-0" mounting height on ramp bridge, 10,000 lumen luminaire, Type II refractor, 8-foot steel bracket arm, and all features required for "Expressway Lighting Unit On Structure,"
- "Two-Inch Electric Conduit (Asbestos-Cement), Concrete, Encased", per lineal foot, and shall include excavation, backfill, duct, forms for concrete encasement, concrete, conditioning ducts, adaptors for connections to threaded conduit, and all incidentals.
- "Service Panel," for underpass lighting, per each, and shall include NEMA Type 4 enclosure, underground service conductors, vertical 2-inch metallic conduit in pier conductors, vertical 2-inch metallic conduit in pier and on pole for service, safety switch, contactor, photo-cell control unit, mountings, all inter-connecting conduits, grounding, feeders to service, all extra wiring and cable not specifically called for, pigtails, all connections, terminals, splices, conduit adapters, locknuts, entrance fittings, insulating bushings, condulets, mounting bolts, nuts, washers and spacers. Horizontal underground duct portion will be paid for under Item C.
- "Fluorescent Underpass Light," per each, and shall include fixture, 2 lamps, 120 volt dual, high power factor, low starting temperature ballast, brackets, fixture wire, 6" by 6" by 4" junction box, bosses, branch conductors to junction box, all connections and splices, 4-inch vinyl-jacketed, flexible conduit to junction box, shock mounts, fittings, mounting lugs and fastenings.
- "Junction Box," for underpass lighting, per each, and shall include 8-inch by 8-inch by 4-inch junction box, cover, gasket, attachments, fittings, fastenings, conduit connections, and tap splices.
- "Parapet Junction Box," for deck lighting crossovers, per each, and shall include 16-inch by 12-inch by 6-inch junction box, and all features required for "Junction Box," Item F, excluding splices.
- "Two-Inch Electric Conduit (Metal)," per lineal foot, and shall include longitudinal conduits in parapets, sidewalks and wingwalls, crossovers, couplings, bushings, bends, reaming, threading, fittings, attachments, locknuts, expansion fittings, expansion and deflection fitting, conditioning conduits, grounding, fastenings, and No. 9 AWG galvanized iron pull-in wire.
- "Three-Quarter Inch Electric Conduit (Metal)," per lineal foot, and shall include all No. 10 AWG branch wiring, and all features required for "Two-Inch Electric Conduit (Metal)," excepting No. 9 pull-in
- "Electrical Ground," per each, and shall include extending No. 6 bare ground connections from wires in tops of fixed piers to beams of structures and brazing or bolting as required, stranded No. O bare wire embedded in the piers, brazed to pile or coiled under footing as required, and interconnections.
- Cable for series lighting and cable in poles and brackets will be installed under the portion of contract for lighting off structures. Anchor bolts and sleeves for lighting units on Bridges 18 and 19 will be paid for with structural steel.

16. BRICK SEWERS

Uncovering and backfilling of brick sewers called for on sheets 98,101,102 & 108 shall be performed at sufficient points to verify plan location of

BRIDGES NO. 15,16,17,17A,18,19,20 & 21 PART 12

HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK

ESTIMATED QUANTITIES FOR BRIDGES 15 AND 16 AND GENERAL NOTES

AKRON EXPRESSWAY SYSTEM

SUMMIT COUNTY

AKRON DATE 7-11-6 DATE 8-4-61 917 SHEET 94 DATE 5.31-61 DATE

RAILROAD FORCE ACCOUNT WORK

- 1. Engineering and Inspection
- 2. Trackwork

PENNSYLVANIA RAILROAD COMPANY

- 1. Engineering and Inspection

- 1. Preliminary Engineering

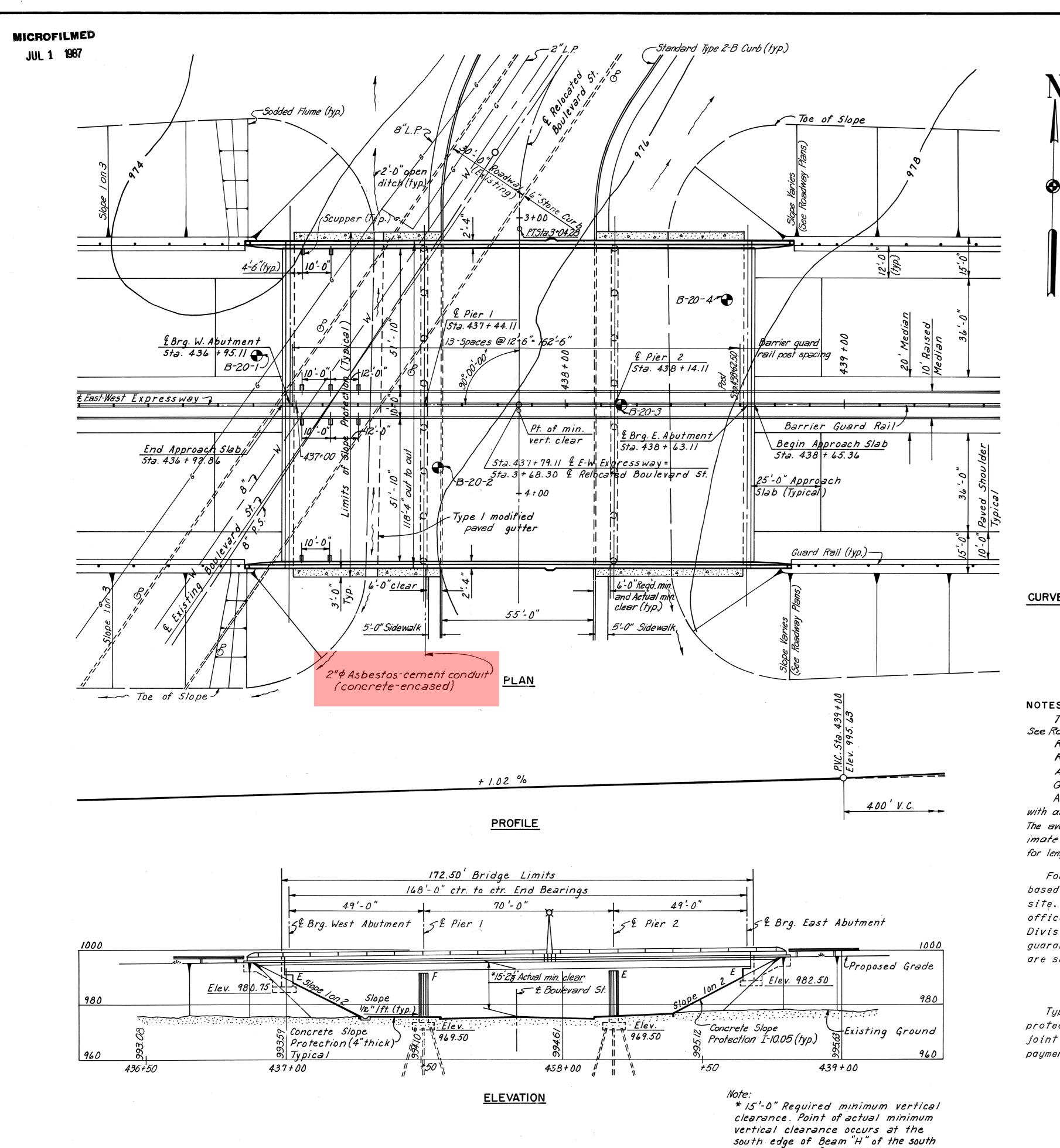
2 Ex 10 Co 1 C1 1	Description offerdams, Cribs and Sheeting xcavation for Structures (Unclassified) oncrete Slope Protection lass "C" Concrete (Superstructure)	Unit Lump Sum Cu.Yd.	Piers	Abutments	N.E. S.E. Wingwalls	-	General	Total	
2 Ex 10 Co 1 C1 1	xcavation for Structures (Unclassified) oncrete Slope Protection				† – – – – – – – – – – – – – – – – – – –	377467476			
2 Ex 10 Co 1 C1 1	xcavation for Structures (Unclassified) oncrete Slope Protection						Lump Sum	Lump Sum	
10 Co 1 CI	oncrete Slope Protection		1,830	1,810	203			3,843	v
1 C1 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St	lass "C" Concrete (Superstructure)	Sq.Yd.					1,345	1,345	
1 C1 1 C1 1 C1 1 C1 1 C1 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St		Cu. Yd.		-		3,460	.,070	3,460	
1 C1 1 C1 1 C1 1 C1 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St	lass "C" Concrete (Pier caps and shafts)	Cu.Yd.	825			,,,,,		825	v .
1 C1 1 C1 1 C1 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St	lass "C" Concrete (Pier caps and columns)	Cu.Yd.	542					542	v ·
1 Cl 1 Cl 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St	lass "C" Concrete (East abutment above footings)	Cu. Yd.		675				675	V
1 C1 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St	lass "C" Concrete (N.E. and S.E. Wingwalls above footings)	Cu.Yd.			100			100	✓
1 C1 3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty 14 Ba 16 Fi 18 St	lass "E" Concrete (Pier, abutment and wingwall footings)	Cu. Yd.	875	600	50	-		1,525	\checkmark
3 Wa 4 Re 7 St 8 Fi 9 1" 14 Ty, 14 Ba 16 Fi 18 St	lass "E" Concrete (Stub abutments above footings)	Cu. Yd.		272				272	\checkmark
7 St 8 Fi 9 1'' 14 Ty 14 Ba 16 Fi 18 St	aterproofing Premolded Sealing Strip		(292,550	126	79			205	~
8 Fi 9 1" 14 Ty, 14 Ba 16 Fi 18 St	einforcing Steel	Lbs.	(291,230)	214,620	20,800	919,370	·	1,446,020	VI.447,145
9 1" 14 Ty, 14 Ba 16 Fi 18 St	tructural Steel	Lbs.		330	7	4,160,000		4,160,000	
9 1" 14 Ty, 14 Ba 16 Fi 18 St	ield Painting of Structural Steel	Lbs.			T :	4,160,000		4,160,000	
14 Ty 14 Ba 16 Fi 18 St	" Preformed Gray Rubber Exp. Jt. Filler	Sq.Ft.		101	107	· • · · · · · · · · · · · · · · · · · ·		208	/
14 Ba 16 Fi 18 St	ype "A" Aluminum Railing (Including parapet)	Lin.Ft.		231		2,571		2,802	1/
16 Fi 18 St	arrier Railing (Guardrail, steel beam type, deep)	Lin.Ft.				531		531	
18 St	irst Test Pile	Lump Sum			†		Lump Sum	Lump Sum	·
	teel Bearing Piles (10 BP 42)	Lin.Ft.	 	4,725	720		Zamp Gam	18,505	·
$25 \mid EX$	xpressway Lighting Unit on Structure	Each	-,	1		11		11	V .
	amp Lighting Unit on Structure	Each		1		8		8	
	" Electric Conduit (Metal)	Lin.Ft.		1		2,200		2,200	7
25 2"	" Electric Conduit (Asbestos-cement, concrete encased)	Lin.Ft.					270-240	270-240	1
	" Electric Conduit (Metal)	Lin.Ft.				1,200		1,200	•
25 Ju.	unction Box	Each				2		2	4
25 F1	luorescent Underpass Light	Each				37		37	√
25 Se	ervice Panel	Each	***************************************			3		3	√
25 E1	lectrical Ground	Each	5					5	·
25 Pa	arapet Junction Box	Each				5	_	5	
	prous Backfill	Cu.Yd.		495	63		· · · · · · · · · · · · · · · · · · ·	558	1
?9 Ty,	upe A Scuppers (as per plan)	Each				9		9	V
	upe B Scuppers (as per plan)	Each				30		30	√
	upe A Pipe Trough (Including specials, as per plan)	Each			† †	3		3	J
	upe B Pipe Trough (Including specials, as per plan)	Each				9		9	$\sqrt{}$
	¢ Bituminous Coated C.M.P. (Including specials)	Lin.Ft.		77				77	√ · · · ·
	ø Perforated Bituminous Coated C.M.P. (Including specials)	Lin.Ft.	····	190			-	190	1.
	W.I. or Galv. Steel Downspouts (Including fastenings and specials)	Lin.Ft.	22	1	†		•	22	J
	W.I. or Galv. Steel Downspouts (Including fastenings and specials)	Lin.Ft.	127	93	·			220	V
	reboring for Piling (1)	Lin.Ft.	1,555	1.25				1,680	
	ater Reducing, Set-Retarding Admixture (2)	Each	,,,,,,,	†		3,460		3,460	
17 Fi		,	I ·						

ERIE-LACKAWANNA RAILROAD COMPANY

- 3. Signal and communication Lines
- 2. Communication Work
- 3. Track work

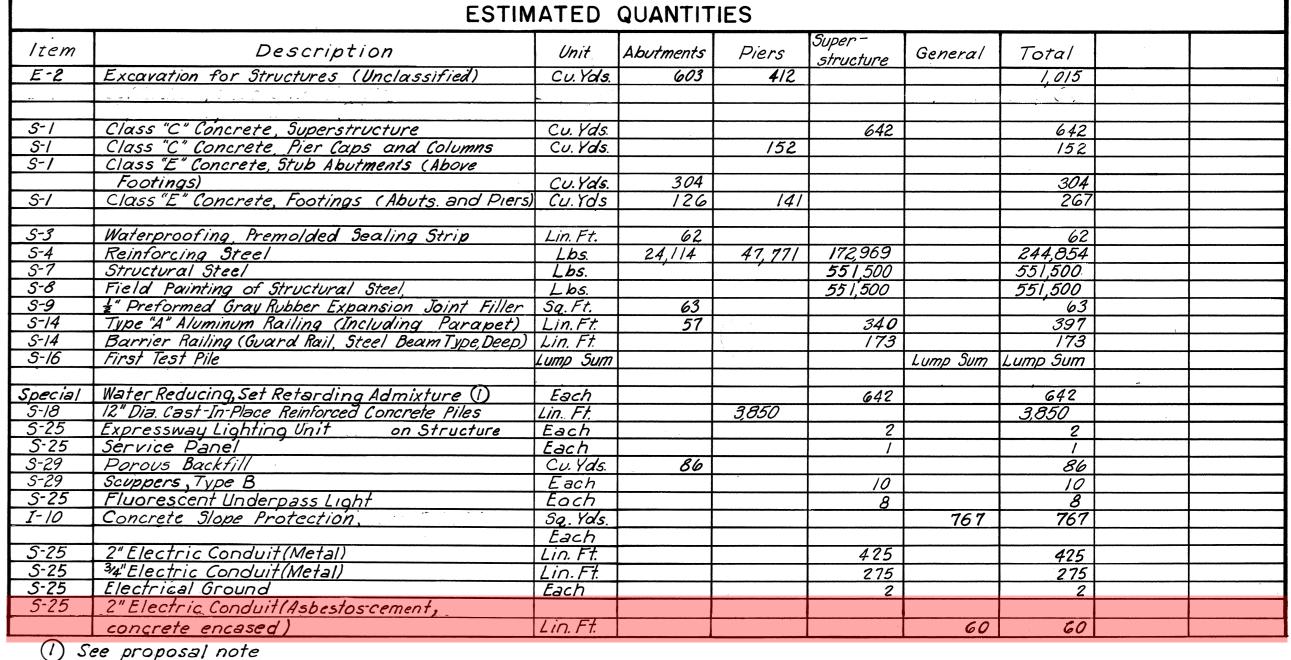
BALTIMORE and OHIO RAILROAD COMPANY

- 2. Construction Engineering
- NOTE: Plans for Force Account Work may be seen in the Division Office, the Bureau of Bridges, Construction Bureau, and the Office of Contract Sales in Columbus, or at the respective offices of each Railroad.



FED. RD. STATE DIVISION *(* 161) 179 OHIO

SUMMIT COUNTY CITY OF AKRON AKRON EXPRESSWAY SYSTEM SUM-18-10.02



CURVE DATA- & RELOCATED BOULEVARD ST.

P.I. Sta. 2+75.40

R = 100,00'

Δ = 34°-08'-25" L = 59.59

T = 30.71'

E = 4.61'

NOTES:

roadway and & of Relocated Boulevard St.

The following items are not included in the bridge plans. See Roadway Plans for details.

Removal of existing pavement, etc.

Relocation or removal of existing utilities.

Approach grading, pavements, and slabs.

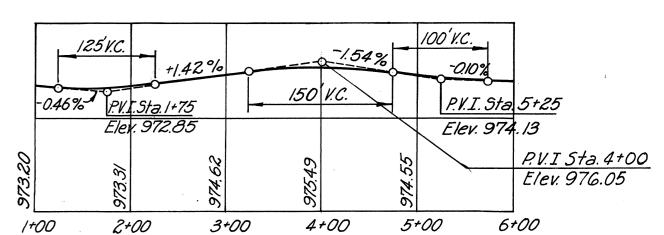
Guard rails, sodded flumes, and Type I modified paved gutter. All piles to be 12" dia. cast-in-place reinforced concrete with an estimated average vertical length of 35'-0."

The average length is based on boring data and is approximate only. The contractor shall assume full responsibility

for lengths of piling selected for driving.

Foundation design and foundation quantities are based on a study of drive sample borings made at the site. This boring information may be examined at the office of the Bureau of Bridges in Columbus or in the Division Office in Ravenna, but the State does not guarantee the accuracy thereof. Locations of borings are shown thus

Type 1 modified paved gutter and concrete slope protection (4" thick) including 1" preformed expansion joint filler around each pier column are included for payment in Roadway Quantities.



PROFILE GRADE-RELOCATED BOULEVARD ST.

Scale: Hor. | " = 100 Vert. 1"= 10'

PROPOSED STRUCTURE

TYPE: 3 Span continuous rolled beam with reinforced concrete deck and substructure. SPANS: 49'-0", 70'-0" and 49'-0"

ROADWAY: 116'-0" face to face of parapets LOADING: CF2000(57)-Adequate for AASHO

alternate loading. SKEW: None

WEARING SURFACE: I" Monolithic Concrete APPROACH 5LABS: AS-1-54 (25-0" long) ALIGNMENT: Tangent

BRIDGE NO. 20

HOWARD NEEDLES TAMMEN & BERGENDOFF

PART 12

CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

SITE PLAN

EXPRESSWAY OVER RELOCATED **BOULEVARD STREET**

BR. NO. SUM-18-1026 STA. 436+92.86 TO SCALE : I" = 20' STA. 438+65.36

AKRON EXPRESSWAY SYSTEM

AKRON SUMMIT COUNTY

DRAWN F.S. J. TRACED A E.K. CHECKED REVIEWED J.T. REVISED

DATE 10-10-60 DATE 1-23-61 DATE 2-16-61 DATE 6-2-61 917 SHEET 161

Appendix D LABORATORY RESULTS AND CHAIN OF CUSTODY



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577994 - PLM

Columbus OH 43212 Project: SUM-00076-09660

Project No.: 18-0568 Client: LAW411

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657509 Analyst Observation: Grey Pad Location: South Side West End

Client Description: Parapet Wall Pad **Facility:** Client No.: 1

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: Grey Pad **Lab No.:** 6657510 **Location:** South Side Middle

Client No.: 2 Client Description: Parapet Wall Pad **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657511 Analyst Observation: Grey Pad **Location:** South Side East End

Client Description: Parapet Wall Pad Client No.: 3 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657512 **Analyst Observation:** Grey Mortar Location: South Side West End

Client No.: 4 Client Description: Guardrail/Bolt Mortar **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: Grey Mortar Location: South Side Middle **Lab No.:** 6657513

Client No.: 5 Client Description: Guardrail/Bolt Mortar **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657514 **Analyst Observation:** Grev Mortar Location: South Side Middle

Client Description: Guardrail/Bolt Mortar Client No.: 6 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

Page 1 of 7

None Detected 100 None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

11/21/2018 Date Received: 11/26/2018

Date Analyzed:

Analyst:

Signature: Linda Price

Dated: 11/27/2018 4:08:10

Approved By:

Frank E. Ehrenfeld, III Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577994 - PLM

Columbus OH 43212 Project: SUM-00076-09660

Project No.: 18-0568 Client: LAW411

PLM BULK SAMPLE ANALYSIS SUMMARY

Analyst Observation: Black Tar Location: South Side West End Lab No.: 6657515

Client Description: Road Tar Client No.: 7 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657516 **Analyst Observation:** Black Tar **Location:** South Side Middle

Client No.: 8 **Client Description:** Road Tar **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

Trace Cellulose None Detected

Lab No.: 6657517 **Analyst Observation:** Black Tar **Location:** South Side East End

Client Description: Road Tar Client No.: 9 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657518 **Analyst Observation:** Grey Expansion Joint Location: South Side West End

Client Description: Bridge Grey Expansion Joint Client No.: 10 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: Grey Expansion Joint Location: South Side East End **Lab No.:** 6657519

Client No.: 11 **Client Description:** Bridge Grey Expansion Joint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657520 **Analyst Observation:** Grey Expansion Joint **Location:** South Side East End

Client Description: Bridge Grey Expansion Joint Client No.: 12 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

11/21/2018 Date Received: 11/26/2018

Date Analyzed:

Signature: Analyst:

Linda Price

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 11/27/2018 4:08:11 Page 2 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577994 - PLM

Columbus OH 43212 Project: SUM-00076-09660

Project No.: 18-0568 Client: LAW411

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657521 **Analyst Observation:** Black Caulk **Location:** West Side Below Deck

Client No.: 13 **Client Description:** Bridge Slope Caulking **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657522 **Analyst Observation:** Black Caulk **Location:** West Side Below Deck

Client No.: 14 Client Description: Bridge Slope Caulking **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657523 **Analyst Observation:** Black Caulk **Location:** West Side Below Deck

Client No.: 15 **Client Description:** Bridge Slope Caulking **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657524 **Analyst Observation:** Brown/Blue Paint **Location:** West Side Below Deck

Client No.: 16 Client Description: Steel Beam Paint **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: Brown/Blue Paint **Location:** West Side Below Deck **Lab No.:** 6657525

Client No.: 17 **Client Description:** Steel Beam Paint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657526 **Analyst Observation:** Brown/Blue Paint **Location:** West Side Below Deck

Client No.: 18 Client Description: Steel Beam Paint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

11/21/2018 Date Received:

Dated: 11/27/2018 4:08:11

11/26/2018 Date Analyzed:

Signature: Linda Price Analyst:

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 3 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577994 - PLM

Columbus OH 43212 Project: SUM-00076-09660

Project No.: 18-0568 Client: LAW411

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6657527 **Analyst Observation:** White Paint **Location:** West Side Below Deck

Client Description: White Paint On Concrete Client No.: 19 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: White Paint **Location:** East Side Below Deck **Lab No.:** 6657528

Client No.: 20 Client Description: White Paint On Concrete **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6657529 **Analyst Observation:** White Paint **Location:** South Side Middle Above Deck

Client Description: White Paint On Concrete **Facility:** Client No.: 21

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

11/21/2018 Date Received:

11/26/2018 Date Analyzed:

Signature: Linda Price Analyst:

Dated: 11/27/2018 4:08:11 Page 4 of 7 Approved By:

Frank E. Ehrenfeld, III

Frank Tuanful

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

 1441 King Avenue
 Report No.: 577994 - PLM

 Columbus OH 43212
 Project: SUM-00076-09660

Project No.: 18-0568

Client: LAW411

Appendix to Analytical Report

Customer Contact:

Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

Dated: 11/27/2018 4:08:11 Page 5 of 7



Email: customerservice@iatl.com

18-0568

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 11/26/2018

1441 King Avenue Report No.: 577994 - PLM

Columbus OH 43212 Project: SUM-00076-09660

Client: LAW411 Project No.:

Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004 **Requirements/Comments:** Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 11/27/2018 4:08:11 Page 6 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc.

1441 King Avenue

Columbus OH 43212

Client: LAW411

Report Date: 11/26/2018

Report No.: 577994 - PLM

SUM-00076-09660

Project No.: 18-0568

Project:

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 11/27/2018 4:08:11 Page 7 of 7

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To: AT L	
VIA: Fed EX	

No 11169

Turn around:

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:		P	roject No.:	Project Contact:		Sampler (prin	1):	Signature
SUM - 0007	6-09	660 1	8-0568	Matt G	eiger -			11 + Tayor
Sample I.D. No.	Homog. Area No.	Sample /Homoge	neous Area Description		Sample Loca	ation		Remarks
l.	ı	Paralet wall	Pad	South	5:3c We	st End	665750	9
2	í			. 1	Mi	001e	685751	0
3	ı	***************************************		,	East No	END END	665751	<u>\$</u>
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Distributor: White -	Lab: Yello	w - File			\	(- 1 1	•	

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212

Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To: [ATL	No	7	azummaga.	The same	7	0
VIA: Frd Et	Page >	-	0	of	2)

Turn around:

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:			Project No.:	1	ject Contact:			Sampler (print):		5	Signature
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Appendix E OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed: /	 ' /		Received:	/	/		☐ Hand-Deliv	ered
1) Notification Infor	mation (Check all that a	pply)	<u> </u>				.4			<u></u>	·- 	
☑ Original ☐ Rev	vision # (count):	☐ Installation	☐ Emerge	ency [Annual		Cancellation	County	:			
2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information Revised?												
Owner									·			
Name: ODOT District 4									Is thi:	s a compa	any? 🛛 Yes 🛘	No
Address: 2088 South A	Arlington Road				Conta	ct Pers	son:					
City: Akron				State: Oh	nio			Zip:	44306	:06 -		
Email:				Phone: (330) 78	6 -	3100	Fax	:(330) 786	- 2226	
Asbestos Abatement C	ontractor (if applicable)							·				
Name:					License #	: AC			Ex	piration [Date: / /	
Address:					Conta	ct Pers	son:					
City:				State:				Zip:	:	-		
Email:				Phone: ()	-		Fax	: ()	-	
Billing Contact												
Is this contact associate	ed with the 🔲 Owner,	Asbestos Aba	itement Cor	ntractor,	or 🔲 Den	nolitio	n Contractor (i	if not ins	stallatio	on)?		
Address:					Conta	ct Pers	son:					
City:				State:				Zip	:	-		
Email:				Phone: ()	-		Fax	: ()	-	
Fire Department (if app	plicable)											
Name:												
Address:					Conta	ct Pers	son:					
City:				State:				Zip:		-		
Email:				Phone: ()	-		Fax	: ()	-	
3) Ohio Asbestos Ha	zard Evaluation Specialis	t and Evaluation	Procedure								Re	vised?
Evaluation Specialist: N	Natt Geiger			C	Certification	1#: E	S 35832	Ex	piratio	n Date: 1	0 / 14 / 2018	
_	nalytical methods, emplo ry II non-friable asbestos-	•	•	f and to 6							material (RACN explain Below):	1) and
4) Procedures to be	followed should unexpe	ted RACM be dis	covered (ch	eck all tl	hat apply)						Re	vised?
Stop work and kee	p wet 🔀 Evac	uate area	⊠ De	emarcate	area		⊠ c	ontact li	censed	abateme	ent contractor	
Contact district off	ice/local air authority											
Other (Explain):												
5) Planned Demolition	on (check all that apply)										Re	vised?
	Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used: Implosion Fire Training Wet Methods Manual Demolition Mechanical Demolition Other (Explain):											
Description of affected	facility components (inc	ude attachment	if necessary):								

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and	Engineering Controls (if	asbestos is being aba	ted)							Revised?
For the material listed in each ensure proper waste handling:		e(s) of ACM to be abat	ted, engineerir	ng con	trols and work pra	ictices to	be used	to minim	nize emis	sions and
Type of ACM to be abated:	Surfacing	☐ Mechanical	Other							
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE		AFD Oth		ier:			
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechan	ical	Other:	•				
7) Asbestos Waste Transpor	ter (if applicable)									Revised?
Transporter #1 Name:										
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	=		Fax: ()	-	
Transporter #2 Name (if applic	able):									
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
8) Asbestos Waste Disposal	Site (if applicable)									Revised?
Name:										
Address:				Cont	act Person:					
City:			State:	State: Zip: -						
Email:			Phone: ()	-	ı	Fax: ()	-	
9) Emergency Demolition (co	omplete if you checked "	Emergency" above ar	nd "Demolitio	n" for	any project)					Revised?
A copy of the issued order, inc	luding the following infor	mation, must be attac	ched to this no	otifica	tion.					
Government Official Issuing Or	der:		Title:							
Agency:			Authority of Order (Citation of Code):							
Date of Order: / /			Demolition Date: / /							
10) Emergency Renovation/A	batement (complete if y	ou checked "Emergen	ncy" above an	d "Rei	novation/Abateme	ent" for a	ny proje	ct)		Revised?
Date of Emergency: / /			Time of E	merge	ency: : \Box] a.m. [D.m.			
Description of Sudden, Unexp	ected Event:									
Explanation of how the event	caused unsafe conditions	or equipment damag	je:							
11) Attestation										Revised?
In accordance with Ohio Admin Administrative Code will super prohibited by law and I certify	vise the stripping and ren	noval described by thi	is notification.	I ack	nowledge that the					
Signature:					Date: /	/				
Name:			Title:							
Organization:										



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	‡ :									
A. Facility Descr	iption									Revised?	
Building Name (if a	pplicable): SUI	M 00076 09660		Site Lo	ocation (specif	ic): 0.55	Mi E Of Sr 9	3			
Address: 41°03'43.3	36"N 81°32'26	.76"W					Coun	County: Summit			
City: Akron				State:	ОН		Zip: 4	4307 -			
Building Size (squar	e feet): 20,2	249			No. of Floors:				Age: 55		
Present Use: Bridge	e				Prior Use:						
B. Type of Opera	ation (check a	ll that apply)								Revised?	
☐ Demolition	⊠ Reno	ovation/Abatement – Тур	oe: 🔲 Removal		Repair 🔲 E	ncapsula	ation 🗌 E	nclosure			
C. Asbestos Pres	sent (check on	e)								Revised?	
⊠ Yes □ No		No, previously abated	l Year A	bated:							
D. Approximate	Amount of As	bestos-Containing Mate	erials (complete	table b	elow and Sec	tion 1 #0	6 if asbestos	is present)		Revised?	
			Material to	be Ren	noved			M	aterial NOT to b	e Removed	
Non-fri					oestos-Contain	ing Mat	terial	Non-fria	ble Asbestos-Co	ontaining Material	
		RACM	Catego	ry I		Catego	ry II	Cate	gory I	Category II	
Pipes (linear feet)											
Surface area on oth components (ft ²)	ner facility									150	
Volume if length or be measured (ft ³)	area cannot										
E. Asbestos Aba	tement Sched	lule and Abatement Spe	cialist (original n	otifica	tion is require	d 10 wo	orking days p	orior to the sta	art of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/			Con	nplete Date:	/ /		
(Shift 1) Time	Monday	, Tuesday	Wednes	day	Thurso	lay	Frid	ay	Saturday	Sunday	
start/end on site											
Abatement Speciali	ist Name:			Cert	ification #: AS			Expiration Date: / /			
(Shift 1) Time	Monday	, Tuesday	Wednes	day	day Thursda		Frid	ay	Saturday	Sunday	
start/end on site											
Abatement Speciali	ist Name:			Cert	ification #: AS			Expiration Date: / /			
F. Demolition Co	ontractor (if a	pplicable)								Revised?	
Name:											
Address:					Cont	act Pers	son:				
City:			State	:			Zip: -				
Email:				Phone: () -				Fax: () -			
G. Demolition Sc	chedule (origin	nal notification is requir	ed 10 working da	ays pri	or to the start	of work	c)			Revised?	
Start Date: /	/			Comp	lete Date: /	′ /					
H. Project Hold										Revised?	
Hold Begin Date:	/ /			Work Resume Date: / /							

Columbus

Cleveland

Dayton

February 8, 2019

Thomas A. Bolte, P.E. Project Manager Burgess & Niple 5085 Reed Road Columbus, OH 43220 (614) 459-2050

Subject: Asbestos Inspection of the SUM 00076 11790 L (I-76) Bridge (SFN #7706154/PID

101402) over Inman Street, Akron, Ohio 44306 (L&A 16-0568)

Dear Mr. Bolte:

On January 17, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Aris Neace (AHES OH #36144) of Lawhon & Associates, Inc (L&A) conducted an asbestos survey of SUM 00076 11790 L (I-76) Bridge (SFN #7706154/PID 101402) over Inman Street, Akron, Ohio 44306. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and no asbestos containing materials were listed.

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability								
Preformed Expansion Pad	Below and Above Deck	Non Friable								
Parapet Wall Caulking	Above Deck	Non Friable								
Beige Paint	Below and Above Deck	Non Friable								
Brown Paint	Painted Steel- Below Deck	Non Friable								

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Preformed Expansion Pad – Below Deck	No Asbestos Detected
2	Preformed Expansion Pad – Below Deck	No Asbestos Detected
3	Preformed Expansion Pad – Above Deck	No Asbestos Detected
4	Parapet Wall Caulking – Above Deck	No Asbestos Detected
5	Parapet Wall Caulking – Above Deck	No Asbestos Detected
6	Parapet Wall Caulking – Above Deck	No Asbestos Detected
7	Beige Paint – Below Deck	No Asbestos Detected
8	Beige Paint – Below Deck	No Asbestos Detected
9	Beige Paint – Above Deck	No Asbestos Detected
10	Brown Paint – Painted Steel, Below Deck	No Asbestos Detected
11	Brown Paint – Painted Steel, Below Deck	No Asbestos Detected
12	Brown Paint – Painted Steel, Below Deck	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Aris Neace and Mr. Matt Geiger. Appendix B contains the Bulk Sample Diagram.

Appendix C contains the laboratory results and chain-of-custody documentation for the asbestos bulk samples collected.

Appendix D contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On January 17, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Aris Neace (AHES OH #36144) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 11790 L (I-76) Bridge (SFN #7706154/PID 101402) over Inman Street, Akron, Ohio 44306. No asbestos-containing materials (ACM) were identified in the course of the survey. If you have any questions, please contact Jordan Mederer at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Moth K Feiger

Project Manager

Jordan Mederer, AHES 35005 HBM Department Manager

Pollen

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

March 14, 2018

Michael A Neace Lawhon & Associates, Inc. 1441 King Ave. Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES36144 Expiration Date: 03/24/2019

Dear Michael A Neace:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

epa.ohio.gov • (614) 644-3020 • (614) 644-318

If you have any questions, please call 614-644-0226.

The Part William Market and Thomas Africa Souldwar

Sincerely,

Mark Needham

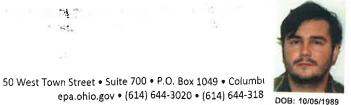
Manager, Asbestos Program

Mark JS Needha

Division of Air Pollution Control

State of Ohio Environmental Protection Agency Asbestos Program

Asbestos Hazard Evaluation Specialist



Michael A Neace Lawhon & Associates, In 1441 King Ave. Environmental Columbus OH 43212 Agency

Certification Number

Expiration Date 03/24/2019

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Michael A. Neace

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: February 21, 2018

MANUMAN 17

Course Director: Kurt Vars

Expiration Date: February 21, 2019

Examination Date: February 21, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6341 & ITNMPR-6341



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

September 05, 2018

Matthew A Geiger Lawhon & Associates, Inc 1441 King Ave Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2019

Dear Matthew A Geiger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely.

Mark Needham

Manager, Asbestos Program
Division of Air Pollution Control

Mark JS Needlan

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Matthew A Gelger
Lawhon & Associates, Inc
1441 King Ave
Columbus OH 43212
Certification Number
Expiration Date
10/14/2019

This certification is issued pursuant to Revised Code
Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matthew Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: July 18, 2018

Course Director: _

Kurt Varga

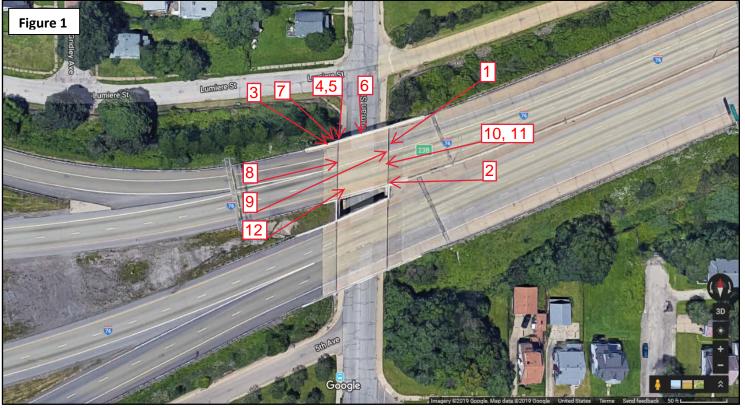
Expiration Date: July 18, 2019

Examination Date: July 18, 2018

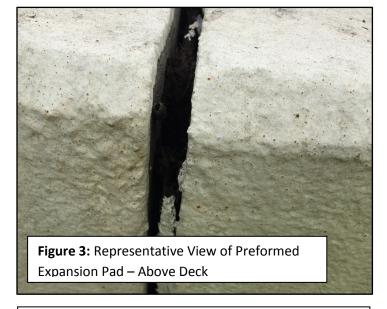
Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6434 & ITNMPR-6434

APPENDIX B BULK SAMPLE DIAGRAM











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Page 1 of 2











Bulk Sample Diagram

Inventory Bridge Number: SUM 00076 11790 L

Structure File Number: 7706154 Date Sampled: January 17, 2019 Surveyors: Matt Geiger, AHES 35832 Aris Neace, AHES 36144

Signatures:

Page 2 of 2

1441 King Avenue | Columbus, Ohio 43212 | P:614.481.8600 | F:614.481.8610 | www.lawhon-assoc.com

APPENDIX C LABORATORY RESULTS AND CHAIN OF CUSTODY



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581888 - PLM Columbus OH 43212 Project: Sum 00076 11790L

Project No.: 16-0568 Client: LAW411

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6699115 Analyst Observation: Black Pad Location: Below Deck

Client Description: Preformed Expansion Pad **Facility:** Client No.: 1

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

80 Cellulose None Detected

Lab No.: 6699116 **Analyst Observation:** Black Pad **Location:** Below Deck

Client No.: 2 Client Description: Preformed Expansion Pad **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

85 Cellulose None Detected

Lab No.: 6699117 **Analyst Observation:** Black Pad **Location:** Above Deck

Client No.: 3 Client Description: Preformed Expansion Pad **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

85 Cellulose None Detected

Lab No.: 6699118 **Analyst Observation:** Grev Caulk **Location:** Above Deck

Client No.: 4 **Client Description:** Parapet Wall Caulking **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6699119 **Analyst Observation:** Grey Caulk **Location:** Above Deck

Client No.: 5 **Client Description:** Parapet Wall Caulking **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6699120 **Analyst Observation:** Grey Caulk **Location:** Above Deck

Client Description: Parapet Wall Caulking Client No.: 6 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

1/21/2019 Date Received: 01/27/2019

Date Analyzed:

Signature: Linda Price Analyst:

Dated: 1/28/2019 1:22:54 Page 1 of 5 Approved By:

Frank E. Ehrenfeld, III Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581888 - PLM

Columbus OH 43212 Project: Sum 00076 11790L

Client: LAW411 Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6699121 Analyst Observation: Beige Paint Location: Below Deck

Client No.: 7 Client Description: Beige Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699122 Analyst Observation: Beige Paint Location: Below Deck

Client No.: 8 Client Description: Beige Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699123 Analyst Observation: Beige Paint Location: Above Deck

Client No.: 9 Client Description: Beige Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699124 Analyst Observation: Brown Paint Location: Painted Steel - Below Deck

Client No.: 10 Client Description: Brown Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6699125 Analyst Observation: Brown Paint Location: Painted Steel - Below Deck

Client No.: 11 Client Description: Brown Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6699126 Analyst Observation: Brown Paint Location: Painted Steel - Below Deck

Client No.: 12 Client Description: Brown Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/21/2019
Date Analyzed: 01/27/2019

Signature:
Analyst:
Linda Price

Dated: 1/28/2019 1:22:54 Page 2 of 5

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

 1441 King Avenue
 Report No.: 581888 - PLM

 Columbus OH 43212
 Project: Sum 00076 11790L

Project No.: 16-0568

Client: LAW411

Appendix to Analytical Report

Customer Contact:

Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

Dated: 1/28/2019 1:22:54 Page 3 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

 1441 King Avenue
 Report No.:
 581888 - PLM

 Columbus OH 43212
 Project:
 Sum 00076 11790L

Project No.: 16-0568

Client: LAW411

Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 1/28/2019 1:22:54 Page 4 of 5



Email: customerservice@iatl.com

1/27/2019

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date:

1441 King Avenue Report No.: 581888 - PLM

Columbus OH 43212 Project: Sum 00076 11790L

Client: LAW411 Project No.: 16-0568

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 1/28/2019 1:22:54 Page 5 of 5

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To:	IATL	
VIA: Fe	IEX	_

Nº 11941

Page ____ of ___

Date: 01/17/19

Turn around:
5 Day
0

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:		P	roject No.:	Projec	ct Contact:	Sampler (print):	Signa	
Sum (00076	11790 L	16-0568	<u> </u> M	Intt Geiges	1 AC:5 N	leuce a	us leace
Sample I.D. No	Homog. Area No.	Sample /Homoger	neous Area Description		Sample Location	n	***	lemarks
)	, m	Preformed E	xoursion Pud		Below Peck		+ 6 G G S	1 22
2	ı	1					56.59£	16
3	1				Above Deck		5.99	
4	2	Paralet Wal	1 Carlking		Above Perk		46 9 9	L 1 8
5	2						04.99	110
6	2	+000			<u> </u>		0000	
7	3	Beige Paint			Below Deck	5		
8	3		•		<u> </u>		44.55	1122
9	3				Above Occk		J. J. S. S.	731.9 911.2
(0	4	Brown Paint	•		Painted Steel - Be	low Deck	5455	9 List
11	4	1						is de la Co
12	4	<u></u>	-			24	5056	
								\$7°
#F								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					$-\sqrt{2}$			
SAMPLE ANALYS	BIS BY EPA MET	THOD 600/R-93/116 UNLES	SS OTHERWISE NOTED.		(Rabe 1-28-1	19	Stop 1st Positive	Analyze All Samples
Relinquished by: (sig	1 /	ate / Time Received by: (signature) Date	/Time	Relinquished by: (signature)	Date / Time Receive	ed by: (signature)	Date ATime
aus Neace	= 11/18	/19 4:00				<u> </u>		- PWA

Distributor: White - Lab; Yellow - File

15/21-27-19

APPENDIX D OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed: /	/ /			Received:	/	/			 ☐ Hand-	Delivered	
1) Notification Info	rmation (Check all that a	 oply)	L				i					L.			
□ Original □ Re	vision # (count):	☐ Installation	☐ Emerge	ency [Anr	nual	☐ Cai	ncellation	Count	ty:					
2) Owner, Asbestos	Abatement Contractor, I	Billing and Fire De	partment li	nformati	ion		•							Revised?	? 🔲
Owner															
Name: ODOT District 4	1									ls t	this a c	ompa	ny? 🛛 ۱	res 🗌 No	
Address: 2088 South	Arlington Road				С	ontact F	Person:			·					
City: Akron					State: Ohio Zip: 44					p: 443	1306 -				
Email:				Phone: (330)	786	- 310	0	Fa	ax: (3	30)	786	- 2226		
Asbestos Abatement (Contractor (if applicable)		·						·						
Name:					Lice	nse #: <i>A</i>	4C				Expirat	tion D	ate: /	/	
Address:					С	ontact F	Person:								
City:				State:					Zi	p:	-				
Email:				Phone: ()		-		Fa	ax: ()		-		
Billing Contact															
Is this contact associat	ted with the \(\Boxed{\openstar}\) Owner,	Asbestos Aba	tement Cor	ntractor,	or 🗌	Demoli	ition Co	ontractor (i	f not i	nstalla	tion)?				
Address:					С	ontact F	Person:								
City:				State:					Zi	p:	-				
Email:				Phone: ()		-		Fa	ax: ()		-		
Fire Department (if ap	plicable)														
Name:															
Address:					С	ontact F	Person:								
City:				State:					Zi	p:	-				
Email:				Phone: ()		-		Fa	ax: ()		-		
3) Ohio Asbestos Ha	zard Evaluation Specialis	t and Evaluation	Procedure											Revised?	? 🗌
Evaluation Specialist: /	Aris Neace			C	Certific	ation #:	: ES 36	5144	E	Expira	tion Da	te: 03	/ 24 / 20	19	
_	nalytical methods, emplory II non-friable asbestos	•	-	f and to				y of regulat							
4) Procedures to be	followed should unexpe	cted RACM be dis	covered (ch	eck all t	hat ap	ply)								Revised	? 🗌
Stop work and kee	ep wet 🛛 Evac	uate area	⊠ De	emarcate	e area			⊠ Co	ontact	licens	ed aba	temer	nt contrac	tor	
Contact district of	fice/local air authority														
Other (Explain):															
5) Planned Demoliti	on (check all that apply)													Revised?	? 🗌
	rork to be performed and Fire Training	method(s) to be of ethods			_					(Expla	ain):				
Description of affected	d facility components (inc	lude attachment	f necessary):											

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and Engineering Controls (if asbestos is being abated) Revised?								Revised?		
For the material listed in each ensure proper waste handling:		e(s) of ACM to be abat	ted, engineerir	ng con	trols and work pra	ictices to	be used	to minim	nize emis	sions and
ype of ACM to be abated: Surfacing Mechanical			Other	Other						
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE		☐ AFD ☐ Ot		ier:			
Work Practices:			☐ Mechan	ical	Other:	•				
7) Asbestos Waste Transpor	ter (if applicable)									Revised?
Transporter #1 Name:										
Address:				Cont	act Person:					
City:			State:	State: Zip:				-		
Email:			Phone: () -			Fax: ()	-	
Transporter #2 Name (if applic	able):									
Address:				Cont	act Person:					
City:			State:	2:			Zip:	-		
Email:			Phone: ()	-	I	Fax: ()	-	
8) Asbestos Waste Disposal	Site (if applicable)									Revised?
Name:										
Address:				Contact Person:						
City:				Zip: -						
Email:)	-	F	Fax: ()	-	
9) Emergency Demolition (co	omplete if you checked "	Emergency" above ar	nd "Demolitio	n" for	any project)					Revised?
A copy of the issued order, inc	luding the following infor	mation, must be attac	ched to this no	otifica	tion.					
Government Official Issuing Or	Title:									
Agency:				of Or	der (Citation of Co	de):				
Date of Order: / /	Demolitio	on Dat	te: / /							
10) Emergency Renovation/A	10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) Revised?									
Date of Emergency: / /	Time of E	Time of Emergency: : a.m. p.m.								
Description of Sudden, Unexp	ected Event:									
Explanation of how the event	caused unsafe conditions	or equipment damag	je:							
11) Attestation										Revised?
In accordance with Ohio Admin Administrative Code will super prohibited by law and I certify	vise the stripping and ren	noval described by thi	is notification.	I ack	nowledge that the					
Signature:					Date: /	/				
Name:			Title:							
Organization:										



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	# :									
A. Facility Descri	iption								Revised?		
Building Name (if a	oplicable): SUI	M 00076 11790 L	Site Location (specific): 0.26 Mi E Of Sr 8								
Address: 41°03'43.62"N 81°30'01.29"W						Cou	ınty: Summit				
City: Akron				State: OH Zip: 4			: 44307 -				
Building Size (squar	e feet): 336	4		No. of Floors:			Age: 64				
Present Use: Bridge Prior Use:											
B. Type of Operation (check all that apply) Revised?									Revised?		
□ Demolition ☑ Renovation/Abatement – Type: ☐ Removal ☐ Encapsulation ☐ Enclosure											
C. Asbestos Pres	ent (check on	e)							Revised?		
☐ Yes 🛛 No		No, previously abated	l Year Al	bated:							
D. Approximate	Amount of As	bestos-Containing Mate	erials (complete	table be	low and Section 1	#6 if asbest	os is present)		Revised?		
			Material to	be Remo	oved		Material NOT to be Removed				
			Non-fria	ble Asbe	estos-Containing M	aterial	Non-frial	ble Asbestos-Co	ontaining Material		
		RACM	Catego	ry I	Categ	gory II	Categ	gory I	Category II		
Pipes (linear feet)											
Surface area on other facility components (ft²)											
Volume if length or	area cannot										
be measured (ft ³)											
E. Asbestos Aba	tement Sched	lule and Abatement Spe	cialist (original n	otificati	on is required 10 v	working days	s prior to the sta	art of work)	Revised?		
Setup Date: /	/	Abaten	nent Date: /	/	T	Co	omplete Date:	/ /			
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday	Fr	iday	Saturday	Sunday		
start/end on site											
Abatement Speciali	st Name:			Certification #: AS				Expiration Da	te: / /		
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday	day Friday		Saturday	Sunday		
start/end on site											
Abatement Specialist Name:					Certification #: AS Expiration Date: / /						
F. Demolition Co	ontractor (if a	pplicable)							Revised?		
Name:											
Address: Contact Person:											
City:							Zip:	-			
Email:					-		Fax:	()			
1	chedule (origin	nal notification is require				ork)			Revised?		
					Complete Date: / /						
H. Project Hold Revised?											
Hold Begin Date: / /				Work Resume Date: / /							

Columbus

Cleveland

Dayton

February 8, 2019

Thomas A. Bolte, P.E. Project Manager Burgess & Niple 5085 Reed Road Columbus, OH 43220 (614) 459-2050

Subject: Asbestos Inspection of the SUM 00076 11790 R (I-76) Bridge (SFN #7706189/PID

101402) over Inman Street, Akron, Ohio 44306 (L&A 16-0568)

Dear Mr. Bolte:

On January 17, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Aris Neace (AHES OH #36144) of Lawhon & Associates, Inc (L&A) conducted an asbestos survey of SUM 00076 11790 R (I-76) Bridge (SFN #7706189/PID 101402) over Inman Street, Akron, Ohio 44306. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and no asbestos containing materials were listed.

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability						
Preformed Expansion Pad	Below and Above Deck	Non Friable						
Parapet Wall Caulking	Above Deck	Non Friable						
Beige Paint	Below and Above Deck	Non Friable						
Brown Paint	Painted Steel- Below Deck	Non Friable						

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Preformed Expansion Pad – Below Deck	No Asbestos Detected
2	Preformed Expansion Pad – Below Deck	No Asbestos Detected
3	Preformed Expansion Pad – Above Deck	No Asbestos Detected
4	Parapet Wall Caulking – Above Deck	No Asbestos Detected
5	Parapet Wall Caulking – Above Deck	No Asbestos Detected
6	Parapet Wall Caulking – Above Deck	No Asbestos Detected
7	Beige Paint – Below Deck	No Asbestos Detected
8	Beige Paint – Below Deck	No Asbestos Detected
9	Beige Paint – Above Deck	No Asbestos Detected
10	Brown Paint – Painted Steel, Below Deck	No Asbestos Detected
11	Brown Paint – Painted Steel, Below Deck	No Asbestos Detected
12	Brown Paint - Painted Steel, Below Deck	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Aris Neace and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the laboratory results and chain-of-custody documentation for the asbestos bulk samples collected.

Appendix D contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On January 17, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Aris Neace (AHES OH #36144) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 11790 R (I-76) Bridge (SFN #7706189/PID 101402) over Inman Street, Akron, Ohio 44306. No asbestos-containing materials (ACM) were identified in the course of the survey. If you have any questions, please contact Jordan Mederer at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Matt & Feiger

Project Manager

Jordan Mederer, AHES 35005 HBM Department Manager

Jellen

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

March 14, 2018

Michael A Neace Lawhon & Associates, Inc. 1441 King Ave. Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES36144 Expiration Date: 03/24/2019

Dear Michael A Neace:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

epa.ohio.gov • (614) 644-3020 • (614) 644-318

If you have any questions, please call 614-644-0226.

The Part William Market and Thomas Africa Souldivan

Sincerely,

Mark Needham

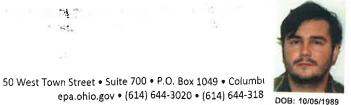
Manager, Asbestos Program

Mark JS Needha

Division of Air Pollution Control

State of Ohio Environmental Protection Agency Asbestos Program

Asbestos Hazard Evaluation Specialist



Michael A Neace Lawhon & Associates, In 1441 King Ave. Environmental Columbus OH 43212 Agency

Certification Number

Expiration Date 03/24/2019

The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Michael A. Neace

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: February 21, 2018

MANUMAN 17

Course Director: Kurt Vars

Expiration Date: February 21, 2019

Examination Date: February 21, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6341 & ITNMPR-6341



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

September 05, 2018

Matthew A Geiger Lawhon & Associates, Inc. 1441 King Ave Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2019

Dear Matthew A Geiger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely.

Mark Needham

Manager, Asbestos Program

Mark JS Needlan

Division of Air Pollution Control



The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matthew Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: July 18, 2018

Course Director: _

Kurt Varga

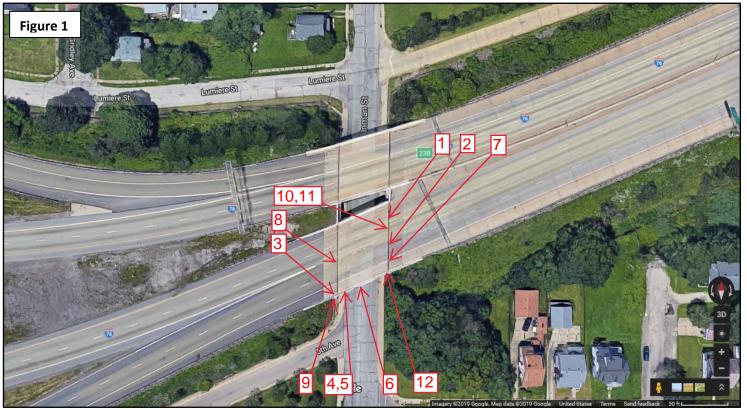
Expiration Date: July 18, 2019

Examination Date: July 18, 2018

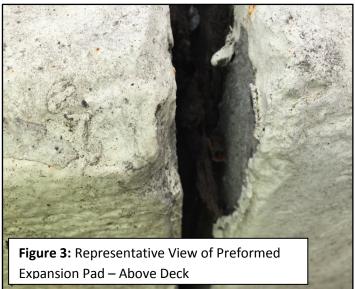
Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6434 & ITNMPR-6434

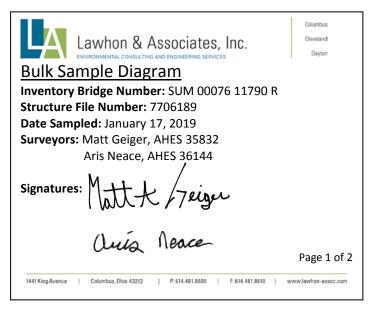
APPENDIX B BULK SAMPLE DIAGRAM





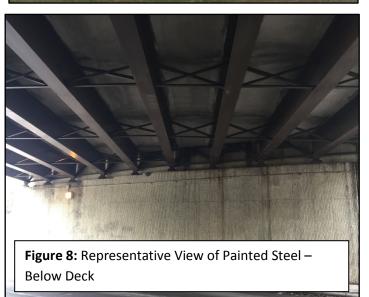
















Bulk Sample Diagram

Inventory Bridge Number: SUM 00076 11790 R

Structure File Number: 7706189 Date Sampled: January 17, 2019 Surveyors: Matt Geiger, AHES 35832 Aris Neace, AHES 36144

Signatures: Matt & Teigur auis Neace

Page 2 of 2

| Columbus, Ohio 43212 | P:614.481.8600 | F:614.481.8610 | www.lawhon-assoc.com

APPENDIX C LABORATORY RESULTS AND CHAIN OF CUSTODY



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581889 - PLM

Columbus OH 43212 Project: Sum 00076 11790R

Client: LAW411 Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6699127 Analyst Observation: Black Pad Location: Below Deck

Client No.: 1 Client Description: Preformed Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 75 Cellulose 25

Lab No.: 6699128 Analyst Observation: Black Pad Location: Below Deck

Client No.: 2 Client Description: Preformed Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 20

Lab No.: 6699129 Analyst Observation: Black Pad Location: Above Deck

Client No.: 3 Client Description: Preformed Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 20

Lab No.: 6699130 Analyst Observation: Grey Caulk Location: Above Deck

Client No.: 4 Client Description: Parapet Wall Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699131 Analyst Observation: Grey Caulk Location: Above Deck

Client No.: 5 Client Description: Parapet Wall Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6699132 Analyst Observation: Grey Caulk Location: Above Deck

Client No.: 6 Client Description: Parapet Wall Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/21/2019
Date Analyzed: 01/27/2019

Signature:

Analyst: Linda Price

Dated: 1/28/2019 1:22:15

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581889 - PLM

Columbus OH 43212 Project: Sum 00076 11790R

Client: LAW411 Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6699133 Analyst Observation: Beige Paint Location: Below Deck

Client No.: 7 Client Description: Beige Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6699134 Analyst Observation: Beige Paint Location: Below Deck

Client No.: 8 Client Description: Beige Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699135 Analyst Observation: Beige Paint Location: Above Deck

Client No.: 9 Client Description: Beige Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699136 Analyst Observation: Brown Paint Location: Painted Steel - Below Deck

Client No.: 10 Client Description: Brown Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6699137 Analyst Observation: Brown Paint Location: Painted Steel - Below Deck

Client No.: 11 Client Description: Brown Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6699138 Analyst Observation: Brown Paint Location: Painted Steel - Below Deck

Client No.: 12 Client Description: Brown Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/21/2019

Date Analyzed: 01/27/2019

Signature:
Analyst:
Linda Price

Linda Price

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 1/28/2019 1:22:15 Page 2 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581889 - PLM

Columbus OH 43212 Project: Sum 00076 11790R

Client: LAW411 Project No.: 16-0568

Appendix to Analytical Report

Customer Contact:

Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

Dated: 1/28/2019 1:22:15 Page 3 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581889 - PLM

Columbus OH 43212 Project: Sum 00076 11790R

Client: LAW411 Project No.: 16-0568

Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 1/28/2019 1:22:15 Page 4 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/27/2019

1441 King Avenue Report No.: 581889 - PLM

Columbus OH 43212 Project: Sum 00076 11790R

Client: LAW411 Project No.: 16-0568

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004 **Requirements/Comments:** Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 1/28/2019 1:22:15 Page 5 of 5

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To: JATL	- Nº	Alexandra Alexandra	19	40
VIA: FedEX	- Page	<u> </u>	_ of _	
Date: 01/19	Turn around:			

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:		Project No.:	Project Conta		Sampler (print):	Sign	ature
SUM 000	76 1	1790 R 16-056	8 Matt	Geigel	Aris No	eace ch	us Necce
Sample I.D. No.	Homog. Area No.	Sample /Homogeneous Area Descr	ription	Sample Loc	ation	l	Remarks
	ı	Preformed Expansion	Pad the	Ballo B	clow Peck	54991	27
2	Î	l` V	-		•	6(99)	CC
3	1		Abo	ive Ante.	Deck		20
4	2	Pasapet Wall Carlking	ng Abo	ive Deck		() ()	20
5	2		<u> </u>			0.591	<u> 0 1 </u>
6	2			<u> </u>		UUS 9	
7	3	Beige Paint	Bel	or Peck			
B					*		
9	3	ACTION OF THE PROPERTY OF THE	Ab	ove Deck	Y	56.593	
10	4	Brown Paint	- Pair	Ited Steel - B	edow Deck	54.991	<u> </u>
	4					51.59 <u>1</u>	¥.
12	4	was and a second	-037		•		
						,e *	
44							
						. 3 "	
•)dbe1-28	<u> </u>	2 1 2019	
 SAMPLE ANALYSIS BY	EPA ME	THOD 600/R-93/116 UNLESS OTHERWIS	SE NOTED.	yu -1.00	JAN JAN	☐ Stop 1st Positive	analyze All Samples
Relinquished by: (signature)	1/18	Received by: (signature)	Date / Time Reli	nquished by: (signature)	Date / Time Receiv	ed by: (signature)	Date / Time
Distributor: White - La	ab; Yello	v - File		-	LSP 1-2.	7-19	

APPENDIX D OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed: /	/		Received:	/	/		Hand-D	elivered
1) Notification Info	rmation (Check all that a	 oply)	L			i	L			<u>i</u>		
☑ Original ☐ Re	vision # (count):	☐ Installation	☐ Emerge	ency [Annual		Cancellation	County	: Akron			
2) Owner, Asbestos	Abatement Contractor, I	Billing and Fire De	partment li	nformati	on	,		•				Revised?
Owner									•			
Name: ODOT District 4	1								Is this a	a compa	ıny? 🛛 Ye	es 🗌 No
Address: 2088 South	Arlington Road				Contact	Perso	on:					
City: Akron				State: Oh	nio			Zip:	44306	-		
Email:				Phone: (330) 786	- 3	3100	Fax	:(330)	786	- 2226	
Asbestos Abatement Contractor (if applicable)												
Name:					License #:	AC			Expi	ration D	oate: /	/
Address:					Contact	Perso	on:					
City:	City:							Zip:		-		
Email:				Phone: ()	-		Fax	:()		-	
Billing Contact												
Is this contact associated with the Owner, Asbestos Abatement Contractor, or Demolition Contractor (if not installation)?												
Address:					Contact	Contact Person:						
City:				State: Z					Zip: -			
Email:				Phone: ()	-		Fax	:()		-	
Fire Department (if ap	plicable)											
Name:												
Address:					Contact	Perso	on:					
City:				State:				Zip:	-	-		
Email:				Phone: ()	-		Fax	:()		-	
3) Ohio Asbestos Ha	zard Evaluation Specialis	t and Evaluation	Procedure									Revised?
Evaluation Specialist:	Aris Neace			C	Certification	#: ES	36144	Ex	piration	Date: 03	3 / 24 / 201	9
_	nalytical methods, emplo ry II non-friable asbestos-	•	-	f and to 6			ntity of regula ant					
4) Procedures to be	followed should unexpe	cted RACM be dis	covered (ch	eck all th	nat apply)							Revised?
Stop work and kee	ep wet 🛛 Evac	uate area	⊠ De	emarcate	area		⊠ c	ontact li	censed a	bateme	nt contract	or
Contact district of	fice/local air authority											
Other (Explain):												
5) Planned Demoliti	on (check all that apply)											Revised?
Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used: Implosion Fire Training Wet Methods Manual Demolition Mechanical Demolition Other (Explain):												
Description of affected	d facility components (inc	lude attachment	f necessary):								

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and	Engineering Controls (if a	sbestos is being abat	:ed)							Revised?
For the material listed in each ensure proper waste handling:		s) of ACM to be abate	ed, engineerir	ng con	trols and	work practice	s to be used	to minim	ize emis	sions and
Type of ACM to be abated:	Surfacing	Mechanical	Other							
Engineering Controls:	☐ Wet Methods	Glove Bag	☐ NPE		AFD		Other:			
Work Practices:	☐ Intact Removal	Manual	☐ Mechan	ical	Other	:				
7) Asbestos Waste Transpor	ter (if applicable)									Revised?
Transporter #1 Name:										
Address:				Cont	act Persor	ո։				
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
Transporter #2 Name (if applic	able):									
Address:				Cont	act Persor	າ:				
City:			State:				Zip:	-		
Email:		Phone: ()	-		Fax: ()	-		
8) Asbestos Waste Disposal Site (if applicable) Revised?										
Name:										
Address:				Cont	act Persor	າ:				
City:			State:	ate: Zip: -						
Email:			Phone: ()	-		Fax: ()	-	
9) Emergency Demolition (co	omplete if you checked "E	mergency" above an	d "Demolitio	n" for	any proje	ect)				Revised?
A copy of the issued order, inc	luding the following inform	nation, must be attac	hed to this no	otifica	tion.					
Government Official Issuing Or	rder:		Title:							
Agency:			Authority of Order (Citation of Code):							
Date of Order: / /			Demolitio	on Dat	:e: /	/				
10) Emergency Renovation/A	batement (complete if yo	u checked "Emergen	cy" above and	d "Rei	novation/	Abatement" 1	for any proje	ct)		Revised?
Date of Emergency: / /			Time of E	merg	ency:	: 🔲 a.n	n. 🗌 p.m.			
Description of Sudden, Unexp	ected Event:									
Explanation of how the event	caused unsafe conditions of	or equipment damage	e:							
11) Attestation										Revised?
In accordance with Ohio Admin Administrative Code will super prohibited by law and I certify	rvise the stripping and rem	oval described by this	s notification.	I ack	nowledge					
Signature:		Date: / /								
Name:			Title:							
Organization:										



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	‡ :									
A. Facility Descri	iption									Revised?	
Building Name (if a	oplicable): SUI	M 00076 11790 R		Site Location (specific): 0.26 Mi E Of Sr 8							
Address: 41°03'42.5	50"N 81°30'01	.05"W						ty: Summit			
City: Akron				State:	ОН		Zip: 4	4307 -			
Building Size (squar	e feet): 4,24	7			No. of Floors:				Age: 64		
Present Use: Bridge	е				Prior Use:						
B. Type of Opera	ation (check a	ll that apply)								Revised?	
☐ Demolition	⊠ Reno	ovation/Abatement – Typ	oe: 🔲 Removal		Repair 🔲 Encap	sulatio	n 🗌 Ei	nclosure			
C. Asbestos Pres	ent (check on	e)								Revised?	
☐ Yes 🛛 No	Yes No Do, previously abated Year Abated:										
D. Approximate	Amount of As	bestos-Containing Mate	erials (complete	table b	elow and Section	1 #6 if	asbestos	is present)		Revised?	
Material t					noved			Ma	aterial NOT to	be Removed	
Non-fri				ble Asb	pestos-Containing	Materia	al	Non-frial	ble Asbestos-C	Containing Material	
		RACM	Catego	ry I	Cat	egory II		Categ	gory I	Category II	
Pipes (linear feet)											
Surface area on oth components (ft ²)	er facility										
Volume if length or	area cannot										
be measured (ft ³)											
	tement Sched	lule and Abatement Spe	cialist (original n	otifica	tion is required 10	worki	ng days p	rior to the sta	art of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/			Con	plete Date:			
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday		Frida	ау	Saturday	Sunday	
start/end on site											
Abatement Speciali	st Name:			Certi	ification #: AS				Expiration Da	ate: / /	
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday		Frida	ау	Saturday	Sunday	
start/end on site											
Abatement Speciali				Certi	ification #: AS			Expiration Date: / /			
F. Demolition Co	ontractor (if a	pplicable)								Revised?	
Name:					<u> </u>						
Address:				1	Contact I	erson:					
City:				State:				Zip: -			
Email:				Phone		-		Fax:	()	<u> </u>	
	chedule (origin	nal notification is require				ork)				Revised?	
Start Date: /	/			Compl	ete Date: /	/					
H. Project Hold			1							Revised?	
Hold Begin Date:	/ /			Work Resume Date: / /							

Columbus

Cleveland

Dayton

January 24, 2019

Thomas A. Bolte, P.E Project Manager Burgess & Niple 5085 Reed Road Columbus, Ohio 43220

Subject: Asbestos Inspection of the SUM 00077 11840 (Lafollette Avenue) Bridge (SFN

#7702949/PID#101402) over IR 76, Akron, Ohio 44311 (L&A 16-0568)

Dear Mr. Bolte:

On January 8, 2019 Mr. Aris Neace, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #36144) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00077 11840 (Lafollette Avenue) Bridge (SFN #7702949/PID#101402) over IR 76, Akron, Ohio 44311. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and an asbestos containing material was listed in association with an existing 2" diameter conduit located in the sidewalk. According to the plan note the exact disposition is still to be determined.

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1, along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability
Vandalism Protection Fence Pad	North and South Sides Above Deck	Non Friable
Sidewalk Preformed Expansion Pad	North and South Sides Above Deck	Non Friable
Parapet Wall Expansion Pad	North and South Sides Above Deck	Non Friable
Tan Paint on Concrete	North and South Sides Above Deck	Non Friable
Tan Paint on Concrete	East and West Sides Below Deck	Non Friable
Metal Curb Paint	North and South Sides Above Deck	Non Friable
Gas Line Wrap	North Side Below Deck	Non Friable

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Vandalism Protection Fence Pad – North Side, West End	No Asbestos Detected
2	Vandalism Protection Fence Pad – North Side, East End	No Asbestos Detected
3	Vandalism Protection Fence Pad – South Side, West End	No Asbestos Detected
4	Sidewalk Preformed Expansion Pad – North Side, West End	No Asbestos Detected
5	Sidewalk Preformed Expansion Pad – North Side, Middle	No Asbestos Detected
6	Sidewalk Preformed Expansion Pad – South Side, West End	No Asbestos Detected
7	Parapet Wall Expansion Pad – North Side, East End	No Asbestos Detected
8	Parapet Wall Expansion Pad – North Side, East End	No Asbestos Detected
9	Parapet Wall Expansion Pad – South Side, East End	No Asbestos Detected
10	Tan Paint on Concrete – North Side, East End	No Asbestos Detected
11	Tan Paint on Concrete – North Side, Middle	No Asbestos Detected
12	Tan Paint on Concrete – West Side, Below Deck	No Asbestos Detected
13	Metal Curb Paint – North Side, Middle	No Asbestos Detected
14	Metal Curb Paint – North Side, East End	No Asbestos Detected
15	Metal Curb Paint – South Side, West End	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S. EPA/NESHAP regulations.

Materials Assumed as Asbestos-Containing

Although there were no materials sampled that were found to be ACM as defined by U.S. EPA/NESHAP regulations there was an inaccessible 6" wrapped gas line on the structure. This material should be assumed to contain asbestos until further testing determines otherwise. The materials assumed of being asbestos-containing identified during the survey are presented in Table 3.

Table 3: Assumed Asbestos Containing Materials

Material	Location	Estimated Quantity				
6" Gas Line Wrap (1)	North Side – Below Deck	300 Linear Feet (475 Square Feet)				
2" Electrical Conduit (1)	South Side – In Sidewalk	300 Linear Feet (157 Square Feet)				

Notes: (1) Category II Non-Friable

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Aris Neace and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the laboratory results and chain-of-custody documentation for the asbestos bulk samples collected.

Appendix D contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On January 8, 2019 Mr. Aris Neace, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #36144) and Mr. Matthew Geiger (AHES OH #35832) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00077 11840 (Lafollette Avenue) Bridge (SFN #7702949/PID#101402) over IR 76, Akron, Ohio 44311. Asbestos-containing materials (ACM) were assumed on this structure during the course of the survey. Any contractors disturbing these materials must adhere to OSHA 29 CFR 1910 and 29 CFR 1926. If you have any questions, please contact Jordan Mederer at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Moth & Teign

Project Manager

Jordan Mederer, AHES 35005 HBM Department Manager

Jan

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

March 14, 2018

Michael A Neace Lawhon & Associates, Inc. 1441 King Ave. Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES36144 Expiration Date: 03/24/2019

Dear Michael A Neace:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

epa.ohio.gov • (614) 644-3020 • (614) 644-318

If you have any questions, please call 614-644-0226.

The Part of the Market of The Call Constitution

Sincerely,

Mark Needham

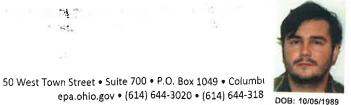
Manager, Asbestos Program

Mark JS Needha

Division of Air Pollution Control

State of Ohio Environmental Protection Agency Asbestos Program

Asbestos Hazard Evaluation Specialist



Michael A Neace Lawhon & Associates, In 1441 King Ave. Environmental Columbus OH 43212 Agency

Certification Number

Expiration Date 03/24/2019

The InService Training Network

Asbestos Building Inspector and Management Planner Refresher Courses



Michael A. Neace

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: February 21, 2018

Course Director: Kurt Varga

Expiration Date: February 21, 2019

Examination Date: February 21, 2018

Course Location: Columbus, Ohio

Certificate Numbers: ITNIR-6341 & ITNMPR-6341



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

September 05, 2018

Matthew A Geiger Lawhon & Associates, Inc 1441 King Ave Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2019

Dear Matthew A Geiger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely.

Mark Needham

Manager, Asbestos Program
Division of Air Pollution Control

Mark JS Needlan

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Matthew A Gelger
Lawhon & Associates, Inc
1441 King Ave
Columbus OH 43212
Certification Number
Expiration Date
10/14/2019

This certification is issued pursuant to Revised Code
Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

The InService Training Network

Asbestos Building Inspector and Management Planner Refresher Courses



Matthew Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2
Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: July 18, 2018

Course Director:

Expiration Date: July 18, 2019

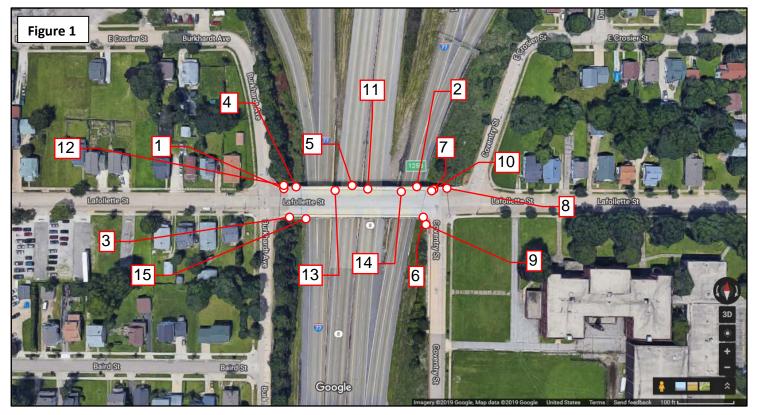
Examination Date: July 18, 2018

Course Location: Columbus, Ohio

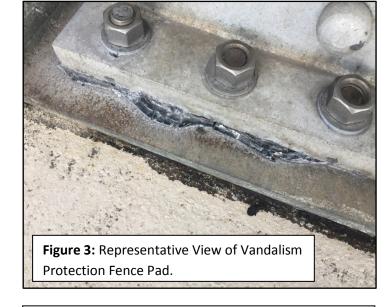
Certificate Numbers: ITNIR-6434 & ITNMPR-6434

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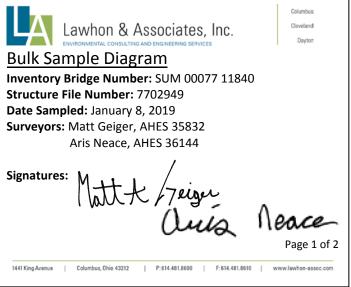
APPENDIX B BULK SAMPLE DIAGRAM





















Bulk Sample Diagram

Inventory Bridge Number: SUM 00077 11840

Structure File Number: 7702949 Date Sampled: January 8, 2019 Surveyors: Matt Geiger, AHES 35832 Aris Neace, AHES 36144

Signatures: Matt / Teigu

Page 2 of 2

1441 King Avenue | Columbus, Ohio 43212

P:614.481.8600 | F:614.481.8610 | www.lawhon-assoc.com

APPENDIX C LABORATORY RESULTS AND CHAIN OF CUSTODY



Client: LAW411

9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/15/2019

1441 King Avenue Report No.: 581132 - PLM

Columbus OH 43212 Project: SUM-00076-11480-R

Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6689917 Analyst Observation: Black Pad Location: North Side West End

Client No.: 1 Client Description: Vandalism Protection Fence Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 50 Synthetic 56

Lab No.: 6689918 Analyst Observation: Black Pad Location: North Side East End

Client No.: 2 Client Description: Vandalism Protection Fence Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 50 Synthetic 5

Lab No.: 6689919 Analyst Observation: Black Pad Location: South Side West End

Client No.: 3 Client Description: Vandalism Protection Fence Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 50 Synthetic 5

Lab No.: 6689920 Analyst Observation: Black Pad Location: North Side West End

Client No.: 4 Client Description: Sidewalk Preformed Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 2

Lab No.: 6689921 Analyst Observation: Black Pad Location: North Side Middle

Client No.: 5 Client Description: Sidewalk Preformed Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 20

Lab No.: 6689922 Analyst Observation: Black Pad Location: South Side West End

Client No.: 6 Client Description: Sidewalk Preformed Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2019

Date Analyzed: 01/15/2019

Signature:
Analyst:
Tiffany Lowe

Dated: 1/17/2019 2:41:56 Page 1 of 6

Approved By:

Frank E. Ehrenfeld, III

Frank E. Ehrenfeld, II Laboratory Director



Client: LAW411

9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/15/2019

1441 King Avenue Report No.: 581132 - PLM

Columbus OH 43212 Project: SUM-00076-11480-R

Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6689923 Analyst Observation: Black Pad Location: North Side East End

Client No.: 7 Client Description: Parapet Wall Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 20

Lab No.: 6689924 Analyst Observation: Black Pad Location: North Side East End

Client No.: 8 Client Description: Parapet Wall Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose

Lab No.: 6689924(L2) Analyst Observation: Grey Cementitious Location: North Side East End

Client No.: 8 Client Description: Parapet Wall Expansion Pad Facility:

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

None Detected None Detected 100

Lab No.: 6689925 Analyst Observation: Black Pad Location: South Side East End

Client No.: 9 Client Description: Parapet Wall Expansion Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 80 Cellulose 2

Lab No.: 6689926 Analyst Observation: Tan Paint Location: North Side East End

Client No.: 10 Client Description: Tan Paint On Concrete Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6689927 Analyst Observation: Tan Paint Location: North Side Middle

Client No.: 11 Client Description: Tan Paint On Concrete Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2019

Date Analyzed: 01/15/2019

Dated: 1/17/2019 2:41:57

Jiffany Lowe

Signature:
Analyst:
Tiffany Lowe

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 2 of 6



Client: LAW411

9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/15/2019

1441 King Avenue Report No.: 581132 - PLM

Columbus OH 43212 Project: SUM-00076-11480-R

> Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6689928 **Analyst Observation:** Tan Paint **Location:** West Side Below Deck

Client Description: Tan Paint On Concrete Client No.: 12 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Location: North Side Middle Lab No.: 6689929 **Analyst Observation:** Brown Paint

Client No.: 13 Client Description: Metal Curb Paint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6689930 **Analyst Observation:** Brown Paint **Location:** North Side East End

Client No.: 14 Client Description: Metal Curb Paint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6689931 **Analyst Observation:** Brown Paint Location: South Side West End

Client No.: 15 Client Description: Metal Curb Paint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 01/15/2019 Date Analyzed:

1/10/2019

Signature: Tiffany Lowe Analyst:

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 1/17/2019 2:41:57 Page 3 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/15/2019

1441 King Avenue Report No.: 581132 - PLM

Columbus OH 43212 Project: SUM-00076-11480-R

Client: LAW411 Project No.: 16-0568

Appendix to Analytical Report

Customer Contact:

Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

Dated: 1/17/2019 2:41:57 Page 4 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/15/2019

1441 King Avenue Report No.: 581132 - PLM

Columbus OH 43212 Project: SUM-00076-11480-R

Project No.: 16-0568

Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

Client: LAW411

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 1/17/2019 2:41:57 Page 5 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 1/15/2019

1441 King Avenue Report No.: 581132 - PLM

Columbus OH 43212 Project: SUM-00076-11480-R

Client: LAW411 Project No.: 16-0568

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 1/17/2019 2:41:57 Page 6 of 6

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To: 1ATL	No	A second	No.	863	
VIA: F.JEX	Page		_ 0	of <u> </u>	_

Date: $\frac{\sqrt{8/2019}}{5-3a_7}$

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:			Project No.:	Pro	ject Contact:		Sampler (print):		Signature	_
SUM - 0007	6-114	180-R	16-0568	17	att Geiger		Matt Frig.	1	MAX A	Lund
Sample I.D. No.	Homog. Area No.	Sample /Homo	geneous Area Description	· · · · · · · · · · · · · · · · · · ·	7	Sample Location	3		Remarks	
	1	Vandalism Protection	n Finic Pal		North Side	west End				5689 9 1
2	1	1			7	East End	` `			56899
3	1				South Side	west End				56899
4	2	Sidewalk Proform	ed Expansion Pad)	North Side	west Eni)			66899
5	2			<u> </u>	7	m:3315	10			568991
6	7				South Side	west End				56899
7	3	Parapet Wall Ex	ansion Pad		North Side			Dont Analyze	Paint	
8	3	[1				56899
9	3				South Side			1		56899
10	4	Tan Paint or	Concrete		North Side	East End)	Dont Analyze	Concrete	56899
(1	Ч		``		1	middl c			·····	<u> </u>
12	4			***************************************	west side		ς	Dont Analyze	Concrete	568991
13	5	Metal Curb	Paint		North sid					568991
14	5	1	1-		1	East				56899
15	5	1			South Side					<u> </u>
									·	56899
				-thanks de la	22				***************************************	
ah				7	W) doc1	-17-19	***************************************			5
SAMPLE ANALYSIS BY	Y EPA ME	THOD 600/R-93/116 UN	LESS OTHERWISE NO	TED.	KR	Some 1.1	5.19	☐ Stop 1st Pos	sitive An	alyze All Samples
Religquished by: (signature	` . <i>[.</i> 1	Pate / Time Received to	y: (signature)	Date / Time				ved by: (signature)	[Pate / Time

APPENDIX D OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed: /	/		Received:	/	/		Hand-D	elivered
1) Notification Info	rmation (Check all that a	 oply)	L			i	L			<u>i</u>		
☑ Original ☐ Re	vision # (count):	☐ Installation	☐ Emerge	ency [Annual		Cancellation	County	: Akron			
2) Owner, Asbestos	Abatement Contractor, I	Billing and Fire De	partment li	nformati	on	,		•				Revised?
Owner									•			
Name: ODOT District 4	1								Is this a	a compa	ıny? 🛛 Ye	es 🗌 No
Address: 2088 South	Arlington Road				Contact	Perso	on:					
City: Akron				State: Oh	nio			Zip:	44306	-		
Email:				Phone: (330) 786	- 3	3100	Fax	:(330)	786	- 2226	
Asbestos Abatement Contractor (if applicable)												
Name:					License #:	AC			Expi	ration D	oate: /	/
Address:					Contact	Perso	on:					
City:	City:							Zip:		-		
Email:				Phone: ()	-		Fax	:()		-	
Billing Contact												
Is this contact associated with the Owner, Asbestos Abatement Contractor, or Demolition Contractor (if not installation)?												
Address:					Contact	Contact Person:						
City:				State: Z					Zip: -			
Email:				Phone: ()	-		Fax	:()		-	
Fire Department (if ap	plicable)											
Name:												
Address:					Contact	Perso	on:					
City:				State:				Zip:	-	-		
Email:				Phone: ()	-		Fax	:()		-	
3) Ohio Asbestos Ha	zard Evaluation Specialis	t and Evaluation	Procedure									Revised?
Evaluation Specialist:	Aris Neace			C	Certification	#: ES	36144	Ex	piration	Date: 03	3 / 24 / 201	9
_	nalytical methods, emplo ry II non-friable asbestos-	•	-	f and to 6			ntity of regula ant					
4) Procedures to be	followed should unexpe	cted RACM be dis	covered (ch	eck all th	nat apply)							Revised?
Stop work and kee	ep wet 🛛 Evac	uate area	⊠ De	emarcate	area		⊠ c	ontact li	censed a	bateme	nt contract	or
☐ Contact district of	fice/local air authority											
Other (Explain):												
5) Planned Demoliti	on (check all that apply)											Revised?
Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used: Implosion Fire Training Wet Methods Manual Demolition Mechanical Demolition Other (Explain):												
Description of affected	d facility components (inc	lude attachment	f necessary):								

Notification of Demolition and Renovation/Abatement Section 1: General Information

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

Continued

6) Asbestos Description and	Engineering Controls (if	asbestos is being ab	ated)				Revised?		
For the material listed in each ensure proper waste handling		e(s) of ACM to be aba	ated, engineering	g con	trols and work pr	actices to be used to mir	nimize emissions and		
Type of ACM to be abated:	Surfacing	☐ Mechanical	Other	☐ Other					
Engineering Controls:	☐ Wet Methods	Glove Bag	☐ NPE		AFD	Other:			
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechanic	cal	Other:	•			
7) Asbestos Waste Transpor	ter (if applicable)						Revised?		
Transporter #1 Name:									
Address:				Conta	act Person:				
City:			State:			Zip: -			
Email:			Phone: ()	-	Fax: ()	-		
Transporter #2 Name (if applic	able):								
Address:				Conta	act Person:				
City:	City:					Zip: -			
Email:			Phone: ()	-	Fax: ()	-		
8) Asbestos Waste Disposal	Site (if applicable)						Revised?		
Name:									
Address:				Conta	act Person:				
City:			State:	State: Zip: -					
Email:			Phone: ()	-	Fax: ()	-		
9) Emergency Demolition (c	omplete if you checked '	"Emergency" above a	and "Demolition	" for	any project)		Revised?		
A copy of the issued order, inc	luding the following info	rmation, must be att a	ached to this not	tificat	tion.				
Government Official Issuing O	rder:		Title:						
Agency:			Authority of Order (Citation of Code):						
Date of Order: / /			Demolition Date: / /						
10) Emergency Renovation/A	batement (complete if y	ou checked "Emerge	ency" above and	"Ren	novation/Abatem	ent" for any project)	Revised?		
Date of Emergency: / /			Time of En	nerge	ency: : [☐ a.m. ☐ p.m.			
Description of Sudden, Unexp	ected Event:								
Explanation of how the event	caused unsafe conditions	s or equipment dama	ge:						
11) Attestation							Revised?		
In accordance with Ohio Admi Administrative Code will super prohibited by law and I certify	vise the stripping and re	moval described by th	his notification.	I ackr	nowledge that the		- T		
Signature:					Date: /	1			
Name:			Title:						
Organization:									



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	‡ :									
A. Facility Descri	ption									Revised?	
Building Name (if ap	oplicable): SUN	M 00077 11840		Site Location (specific): 0.20 Mi. S of Ir 76							
Address: 41°03'31.8	32"N 81°30'18	.30"W					Count	y: Summit			
City: Akron				State:	ОН		Zip: 4	4307 -			
Building Size (squar	e feet): 12,5	525		No	o. of Floors:				Age: 60		
Present Use: Bridge	е			Pr	rior Use:						
B. Type of Opera	ation (check a	ll that apply)		•						Revised?	
□ Demolition	⊠ Reno	ovation/Abatement – Typ	e: Removal	Re	epair 🔲 Encapsu	ılation	Er	nclosure			
C. Asbestos Pres	ent (check on	ie)								Revised?	
⊠ Yes □ No		No, previously abated	Year Al	oated:							
D. Approximate	Amount of As	bestos-Containing Mate	rials (complete t	able bel	low and Section 1	#6 if asb	estos	is present)		Revised?	
			Material to b	oe Remo	ved			Ma	iterial NOT to b	oe Removed	
Non-fria				ble Asbe	stos-Containing Ma	aterial		Non-friab	ole Asbestos-Co	os-Containing Material	
		RACM	Catego	ry I	Categ	Category II			ory I	Category II	
Pipes (linear feet)											
Surface area on oth	er facility			632							
components (ft²) Volume if length or	area cannot										
be measured (ft ³)											
E. Asbestos Aba	tement Sched	ule and Abatement Spe	cialist (original n	otificatio	on is required 10 w	vorking o	days p	rior to the sta	rt of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/			Complete Date: / /				
(Shift 1) Time	Monday	, Tuesday	Wednes	day	Thursday		Frida	ay	Saturday	Sunday	
start/end on site									ı		
Abatement Speciali	st Name:			Certification #: AS					Expiration Da	Expiration Date: / /	
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday		Frida	ау	Saturday	Sunday	
start/end on site									1		
Abatement Speciali	st Name:			Certific	cation #: AS				Expiration Da	te: / /	
F. Demolition Co	ontractor (if a	pplicable)								Revised?	
Name:											
Address:					Contact Pe	rson:					
City:				State:				Zip:	-		
Email:				Phone:	() -			Fax:	()	-	
G. Demolition Sc	hedule (origin	nal notification is require	ed 10 working da	ys prior	to the start of wo	rk)				Revised?	
Start Date: /	/			Complete Date: / /							
H. Project Hold										Revised?	
Hold Begin Date: / /				Work Resume Date: / /							

Columbus

Cleveland

Dayton

December 13, 2019

Thomas A. Bolte, P.E. Project Manager Burgess & Niple 5085 Reed Road Columbus, OH 43220 (614) 459-2050

Subject: Asbestos Inspection of the SUM 00076 11650 L (I-76 East Bound) Off Ramp (SFN

#7706065/PID 101402) over I76 West Bound, Akron, Ohio 44306 (L&A 16-0568)

Dear Mr. Bolte:

On November 22, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Trevor Berger (AHES OH #35890) of Lawhon & Associates, Inc (L&A) conducted an asbestos survey of SUM 00076 11650 L (I-76 East Bound) Off Ramp (SFN #7706065/PID 101402) over I76 West Bound, Akron, Ohio 44306. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and no asbestos containing materials were listed.

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability
Paint	Below and Above Deck	Non Friable
Reflector Mastic	Above Deck	Non Friable
1/4" Grey Sponge Parapet Joint	Above Deck	Non Friable
Preformed Expansion Joint Filler	Above Deck	Non Friable
Bearing Pad	Below Deck	Non Friable

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Paint – East Side, South End	No Asbestos Detected
2	Paint – East Side, Middle	No Asbestos Detected
3	Paint – East Side, North End	No Asbestos Detected
4	Reflector Mastic – East Side, South End	No Asbestos Detected
5	Reflector Mastic – East Side, Middle	No Asbestos Detected
6	Reflector Mastic – East Side, North End	No Asbestos Detected
7	1/4" Grey Sponge Parapet Joint – East Side, South End	No Asbestos Detected
8	1/4" Grey Sponge Parapet Joint – East Side, Middle	No Asbestos Detected
9	1/4" Grey Sponge Parapet Joint – East Side, North End	No Asbestos Detected
10	Preformed Expansion Joint Filler – East Side, South End	No Asbestos Detected
11	Preformed Expansion Joint Filler – East Side, South End	No Asbestos Detected
12	Preformed Expansion Joint Filler - East Side, South End	No Asbestos Detected
13	Bearing Pad – South End	No Asbestos Detected
14	Bearing Pad – South End	No Asbestos Detected
15	Bearing Pad – North End	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Trevor Berger and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the laboratory results and chain-of-custody documentation for the asbestos bulk samples collected.

Appendix D contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summarv

On November 22, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Trevor Berger (AHES OH #35890) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 11650 L (I-76 East Bound) Off Ramp (SFN #7706065/PID 101402) over I76 West Bound, Akron, Ohio 44306. No asbestos-containing materials (ACM) were identified in the course of the survey. If you have any questions, please contact Matt Geiger or Trever Berger at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Moth & Teign

Project Manager

Trevor Berger, AHES 35890 Northeast Ohio Regional Manager

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

8/29/2019

Matthew Geiger Lawhon & Associates, Inc. 1441 King Avenue Columbus, OH 43212

RE:

Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2020

Dear Matthew Geiger:

This letter and enclosed certification card approves your request to be certified as an asbestos Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Ohio Environmental Protection Agency (EPA) for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please contact the Asbestos Program at 614-644-0226 or by email at asbestoslicensing@epa.ohio.gov.

Sincerely.

Joshua S. Koch Manager, Business Operations Support Section Ohio EPA - Division of Air Pollution Control



The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matt Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 705D Lakeview Plaza Blvd, Worthington, OH 43085 (614) 436-0980

Course Dates: June 19, 2019

Course Director: ____

Kurt Varga

Expiration Date: June 19, 2020

Examination Date: June 19, 2019

Course Location: Worthington, Ohio

Certificate Numbers: ITNIR-6668 & ITNMPR-6668



Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

March 11, 2019

Trevor T Berger Lawhon & Associates, Inc. 1441 King Avenue Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35890 Expiration Date: 04/28/2020

Dear Trevor T Berger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Joshua S. Koch Manager, Business Operations Support Section

Division of Air Pollution Control



This card is not valid if altered.

The InService Training Network

Asbestos Building Inspector and Management Planner Refresher Courses



Trevor Berger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 705D Lakeview Plaza Blvd, Worthington, OH 43085 (614) 436-0980

Course Dates: February 6, 2019

Course Director:

Kunt Varga

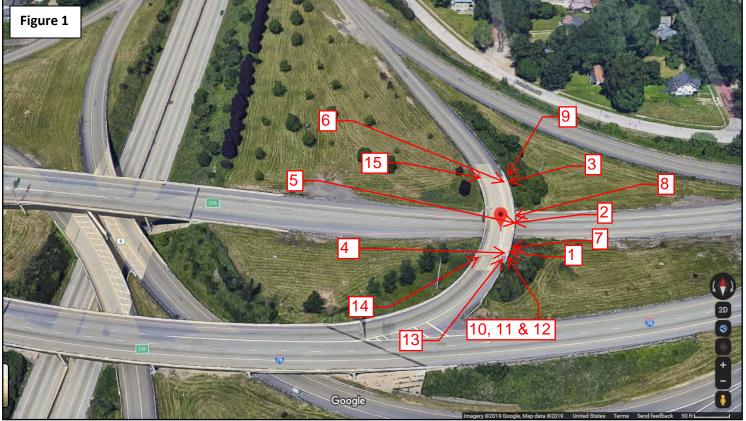
Expiration Date: February 6, 2020

Examination Date: February 6, 2019

Course Location: Worthington, Ohio

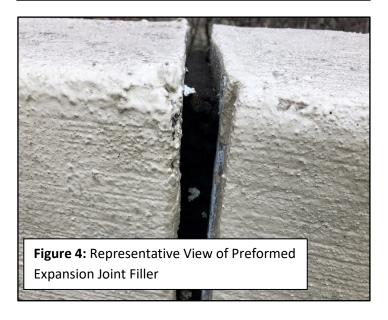
Certificate Numbers: ITNIR-6580 & ITNMPR-6580

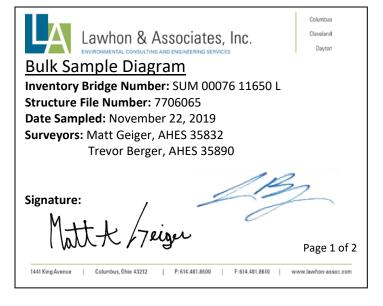
APPENDIX B BULK SAMPLE DIAGRAM

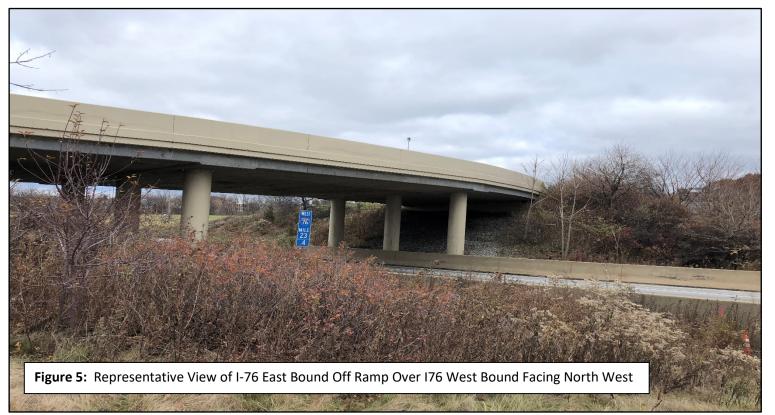








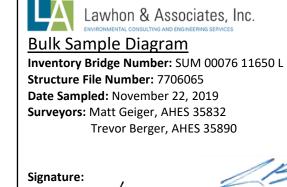












Tatt A 7 eiger

Page 2 of 2

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APPENDIX C LABORATORY RESULTS AND CHAIN OF CUSTODY



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605507 - PLM

Columbus OH 43212 Project: Sum-00076-11650-L

> Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6929269 **Analyst Observation:** Tan Paint Location: East Side South End

Client Description: Paint **Facility:** Client No.: 1

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: Tan Paint Lab No.: 6929270 **Location:** East Side Middle

Client No.: 2 **Client Description:** Paint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929271 **Analyst Observation:** Tan Paint **Location:** East Side North End

Client Description: Paint Client No.: 3 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929272 **Analyst Observation:** Grey Mastic Location: East Side South End

Client Description: Reflector Mastic Client No.: 4 **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929273 **Analyst Observation:** Grey Mastic Location: East Side Middle

Client No.: 5 **Client Description:** Reflector Mastic **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929274 **Analyst Observation:** Grev Mastic **Location:** East Side North End

Client Description: Reflector Mastic Client No.: 6 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

12/3/2019 Date Received:

12/06/2019 Date Analyzed:

Jour Selver Signature: Zach Schwartz

Analyst:

Dated: 12/6/2019 4:23:59

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605507 - PLM

Columbus OH 43212 Project: Sum-00076-11650-L

> Project No.: 16-0568

Client: LAW411

PLM BULK SAMPLE ANALYSIS SUMMARY

Analyst Observation: Grev Non-Fibrous Location: East Side South End Lab No.: 6929275

Client Description: 1/4" Grey Sponge Parapet Joint Client No.: 7 **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929276 **Analyst Observation:** Grey Non-Fibrous **Location:** East Side Middle

Client No.: 8 Client Description: 1/4" Grey Sponge Parapet Joint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929277 **Analyst Observation:** Grey Non-Fibrous **Location:** East Side North End

Client Description: 1/4" Grey Sponge Parapet Joint Client No.: 9 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929278 **Analyst Observation:** Brown Expansion Joint Location: East Side South End

Client No.: 10 **Client Description:** Preformed Expansion Joint Filler **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

60 Cellulose None Detected

Lab No.: 6929279 **Analyst Observation:** Brown Expansion Joint Location: East Side South End

Client No.: 11 **Client Description:** Preformed Expansion Joint Filler **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

60 Cellulose None Detected

Lab No.: 6929280 **Analyst Observation:** Brown Expansion Joint **Location:** East Side South End

Client Description: Preformed Expansion Joint Filler Client No.: 12 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

60 Cellulose None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

12/3/2019 Date Received:

12/06/2019 Date Analyzed:

Signature: Zach Schwartz Analyst:

Dated: 12/6/2019 4:24:00

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 2 of 6



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605507 - PLM

Columbus OH 43212 Project: Sum-00076-11650-L

> Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6929281 **Analyst Observation:** Black Tar Location: South End

Facility: Client Description: Bearing Pad Client No.: 13

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

15 Cellulose None Detected

Lab No.: 6929282 **Analyst Observation:** Black Tar **Location:** South End

Client No.: 14 Client Description: Bearing Pad **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

15 Cellulose None Detected

Lab No.: 6929283 **Analyst Observation:** Black Tar **Location:** North End

Client Description: Bearing Pad **Facility:** Client No.: 15

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 15 Cellulose

Please refer to the Appendix of this report for further information regarding your analysis.

12/3/2019 Date Received: 12/06/2019 Date Analyzed:

Jan Selut Signature: Zach Schwartz

Analyst:

Dated: 12/6/2019 4:24:00

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Frank Tuanfol

Page 3 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605507 - PLM

Columbus OH 43212 Project: Sum-00076-11650-L

Client: LAW411 Project No.: 16-0568

Appendix to Analytical Report

Customer Contact:

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com iATL Office Manager:wchampion@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Dated: 12/6/2019 4:24:00 Page 4 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605507 - PLM

Columbus OH 43212 Project: Sum-00076-11650-L

Client: LAW411 Project No.: 16-0568

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process) Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique - by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log \slash Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004 **Requirements/Comments:** Minimum 50g** of dry sample. Analysis of "Sinks" only. Dated: 12/6/2019 4:24:00 Page 5 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605507 - PLM

Columbus OH 43212 Project: Sum-00076-11650-L

Project No.: 16-0568 Client: LAW411

3) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 **Requirements/Comments:** Minimum 50g** of dry sample. Analysis of "Sinks" only.

5) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

Dated: 12/6/2019 4:24:00 Page 6 of 6

^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To: LATL	Иō	1597
VIA: FIDEX	1	1
	Page	of

Date: 11/22/2019

Turn around:

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:		Pro	ject No.:	Project Conta	ct:	Sampler (print):		Signature
SUM-0007	76-11(e50-L 1(,- 0568	Matt	Griger -			Mat X Jan
Sample I.D. No.	Homog. Area No.	Sample /Homogene	ous Area Description		Sample Location	ו		Remarks
[1	Paint		East	· side south E	N	Don't analy	ec Concrete 692326
2	١)	Milde		\	6923270
3	1	4			North E	rd	ユ	33.3271
4	7	Reflector Ma	stic		South E	nd		69292 72
5	ے				M:19/c	_		6929273
6	2	, L			North }	lwg ber		6929274
7	3	1/4" grey Sponge	Atter Parapet 3	triot	South En	d		69 29 27 5
8	3	1			Middle			6929276
9	3	1			T Mosth En	J		6929277
10	4	Preformed Expa	nsion Joint Fill	115	South Ex			6929278
()	4	\						692927 9
17	4	1						59 29280
13	5	Bearing Paul		500	rr Eng			5929281
14	2				7		5	929282
15	5			201	th Eng		6	929283
					And the second s			
ф.					- 62	12 1 V 18 1		
SAMPLE ANALYSIS E	BY EPA ME	THOD 600/R-93/116 UNLES	S OTHERWISE NOTED.				Stop 1st Pos	ative Analyze All Samples
Relinquished by: (signatur		Pate / Time Received by: (si	gnature) Date /	Time Reli	nquished by: (signature)	(Date / Time) Receive	ed by: (signature)	Date / Time
Distributor: White -	l ah: Vello	W-FILD AAIK	much 1	12/10/15	9	The second second second second	ZS 1	2/6/19

APPENDIX D OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed:	/ /	/		Received:	/	/			☐ Har	nd-Delivere	ed
1) Notification Inf	ormation (Check all that a	apply)													
☑ Original ☐ R	evision # (count):	☐ Installation	☐ Emerge	ency	□ A	nnual		Cancellation	Coun	ty:Sum	mit				
2) Owner, Asbesto	s Abatement Contractor,	Billing and Fire De	partment I	nformat	ion									Revis	ed?
Owner															
Name: ODOT District	: 4									Is t	his a c	ompa	iny? 🛚	Yes 🗌	No
Address: 2088 South	n Arlington Road					Contact F	Perso	on:							
City: Akron				State: O	hio				Z	ip: 443	06 -				
Email:				Phone: ((330) 786	- 3	100	F	ax: (3	30)	786	- 2226	i	
Asbestos Abatement	Contractor (if applicable)														
Name:					Lic	ense #: A	AC				Expira	tion D	ate:	/ /	
Address:						Contact F	Perso	on:							
City:				State:					Z	ip:	-				
Email:				Phone: (()	-		F	ax: ()		-		
Billing Contact															
Is this contact associ	ated with the 🔲 Owner,	Asbestos Aba	tement Co	ntractor,	or [] Demoli	ition	Contractor (i	if not i	nstalla	tion)?				
Address:						Contact F	Perso	on:							
City:				State:					Z	ip:	-				
Email:				Phone: (()	-		F	ax: ()		-		
Fire Department (if a	pplicable)														
Name:															
Address:						Contact F	Perso	on:							
City:				State:					Z	ip:	-				
Email:				Phone: (()	-		F	ax: ()		-		
3) Ohio Asbestos H	lazard Evaluation Special	ist and Evaluation	Procedure											Revis	sed? 🗌
Evaluation Specialist	: Matt Geiger				Certif	ication #:	ES	35832		Expirat	ion Da	ite: 10) / 14 / :	2020	
_	analytical methods, empl ory II non-friable asbestos	-	-	of and to				tity of regula nt							ind
4) Procedures to b	e followed should unexpo	ected RACM be dis	covered (cl	neck all t	that a	pply)								Revis	sed? 🗌
Stop work and ke	eep wet 🛛 Eva	cuate area	⊠ D	emarcate	e area	9		⊠ c	ontact	license	ed aba	teme	nt contr	actor	
	office/local air authority														
Other (Explain):															
5) Planned Demoli	tion (check all that apply)													Revis	ed? 🗌
	Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used: Implosion Fire Training Wet Methods Manual Demolition Mechanical Demolition Other (Explain):														
Description of affect	ed facility components (in	clude attachment	if necessary	·):											

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and	Engineering Controls (if	asbestos is being aba	ated)							Revised?
For the material listed in each ensure proper waste handling		e(s) of ACM to be aba	ated, engineerin	ng con	ntrols and work pr	ractices to	be used	to minin	nize emis	sions and
Type of ACM to be abated:	Surfacing	Mechanical	Other	Other						
Engineering Controls:	☐ Wet Methods	Glove Bag	☐ NPE		AFD	Oth	er:			
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechan	nical	Other:	•				
7) Asbestos Waste Transpor	ter (if applicable)									Revised?
Transporter #1 Name:										
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
Transporter #2 Name (if applic	cable):									
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
8) Asbestos Waste Disposal	Site (if applicable)									Revised?
Name:										
Address:				Cont	act Person:					
City:			State:	-		Z	Zip:	-		
Email: P)	-	ı	Fax: ()	-	
9) Emergency Demolition (c	omplete if you checked "	'Emergency" above a	and "Demolitio	n" for	any project)					Revised?
A copy of the issued order, inc	luding the following infor	mation, must be atta	ached to this no	otifica	tion.					
Government Official Issuing O	rder:		Title:							
Agency:			Authority of Order (Citation of Code):							
Date of Order: / /			Demolitic	Demolition Date: / /						
10) Emergency Renovation/A	batement (complete if y	ou checked "Emerge	ncy" above an	d "Rei	novation/Abatem	nent" for a	ny proje	ect)		Revised?
Date of Emergency: / /			Time of E	Time of Emergency: : a.m. p.m.						
Description of Sudden, Unexp	ected Event:									
Explanation of how the event	caused unsafe conditions	or equipment dama	ge:							
11) Attestation										Revised?
In accordance with Ohio Admi Administrative Code will super prohibited by law and I certify	rvise the stripping and rer	moval described by th	his notification.	. I ack	nowledge that th					
Signature:					Date: /	/				
Name:			Title:							
Organization:										



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	‡ :									
A. Facility Descri	iption									Revised?	
Building Name (if a	pplicable): SUI	M 0006 11650 L		Site Location (specific): 0.15 Mi E Of Ir 77							
Address: 41°03'42.2	18"N 81°30'10	.33"W					Count	ty: Summit			
City: Akron				State:	ОН		Zip: 4	4307 -			
Building Size (squar	e feet): 5,09	91			No. of Floors:				Age: 60		
Present Use: Bridge	е				Prior Use:						
B. Type of Opera	B. Type of Operation (check all that apply) Revised?										
☐ Demolition	⊠ Reno	ovation/Abatement – Typ	oe: 🔲 Removal		Repair 🔲 Encap	sulatio	on 🗌 Ei	nclosure			
C. Asbestos Pres	sent (check on	e)								Revised?	
☐ Yes 🛛 No		No, previously abated	Year A	bated:							
D. Approximate	Amount of As	bestos-Containing Mate	erials (complete	table b	elow and Section	1 #6 if	asbestos	is present)		Revised?	
			Material to	be Ren	noved			Ma	aterial NOT to	be Removed	
Non-fria			ble Ask	pestos-Containing	Materia	al	Non-frial	ole Asbestos-C	s-Containing Material		
		RACM	Catego	ry I	Cat	egory I	I	Categ	ory I	Category II	
Pipes (linear feet)											
Surface area on oth components (ft ²)	er facility										
Volume if length or	area cannot										
be measured (ft ³)											
E. Asbestos Aba	tement Sched	lule and Abatement Spe	cialist (original n	otifica	tion is required 10	worki	ing days p	rior to the sta	rt of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/	<u> </u>		Com	Complete Date: / /			
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday		Frida	ау	Saturday	Sunday	
start/end on site									1		
Abatement Speciali	st Name:			Cert	ification #: AS				Expiration Da	ate: / /	
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday		Frida	ау	Saturday	Sunday	
start/end on site									1		
Abatement Speciali				Cert	ification #: AS				Expiration Date: / /		
F. Demolition Co	ontractor (if a	pplicable)								Revised?	
Name:					<u> </u>						
Address:				ı	Contact F	Person:	:				
City:				State	:			Zip: -			
Email:				Phone	· · ·	-		Fax:	()	<u></u>	
	chedule (origin	nal notification is require				ork)				Revised?	
Start Date: /	/			Compl	ete Date: /	/					
H. Project Hold			1							Revised?	
Hold Begin Date:	/ /			Work	Resume Date: /	/ /					

Columbus

Cleveland

Dayton

December 13, 2019

Thomas A. Bolte, P.E. Project Manager Burgess & Niple 5085 Reed Road Columbus, OH 43220 (614) 459-2050

Subject: Asbestos Inspection of the SUM 00076 11480 R (I-76 West Bound) Ramp (SFN

#7705972/PID 101402) to I77 South Bound, Akron, Ohio 44306 (L&A 16-0568)

Dear Mr. Bolte:

On November 22, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Trevor Berger (AHES OH #35890) of Lawhon & Associates, Inc (L&A) conducted an asbestos survey of SUM 00076 11480 R (I-76 West Bound) Ramp (SFN #7705972/PID 101402) to I77 South Bound, Akron, Ohio 44306. The purpose of the survey was to determine the presence of asbestos-containing materials (ACM) located on the structure.

The survey consisted of an inspection of all accessible areas of the bridge to determine the presence, location and quantities of asbestos-containing materials. Bulk samples were collected from suspect materials that could potentially be impacted during demolition/renovation work activities. A diagram of the bridge and asbestos bulk sampling locations can be found in **Appendix B**. All available bridge plans were reviewed for this bridge and no asbestos containing materials were listed.

Suspect Materials

The materials suspected of being asbestos-containing identified during the survey are presented in Table 1 along with an indication of their friability.

Table 1: Suspected Materials

Material	Locations	Friability
Paint	Below and Above Deck	Non Friable
Reflector Mastic	Above Deck	Non Friable
1/4" Grey Sponge Parapet Joint	Above Deck	Non Friable
Preformed Expansion Joint Filler	Above Deck	Non Friable
Bearing Pad	Below Deck	Non Friable

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Sample Descriptions, Locations and Results

Sample descriptions, locations, and asbestos content as determined by Polarized Light Microscopy (PLM) are presented in Table 2.

Table 2: Sample Descriptions, Locations and Results

Sample #	Sample Description and Location	Asbestos %
1	Paint – West Side, North End	No Asbestos Detected
2	Paint – West Side, Middle	No Asbestos Detected
3	Paint – West Side, South End	No Asbestos Detected
4	Reflector Mastic – West Side, North End	No Asbestos Detected
5	Reflector Mastic – West Side, Middle	No Asbestos Detected
6	Reflector Mastic – West Side, South End	No Asbestos Detected
7	1/4" Grey Sponge Parapet Joint – West Side, North End	No Asbestos Detected
8	1/4" Grey Sponge Parapet Joint – West Side, Middle	No Asbestos Detected
9	1/4" Grey Sponge Parapet Joint – West Side, South End	No Asbestos Detected
10	Preformed Expansion Joint Filler – West Side, North End	No Asbestos Detected
11	Preformed Expansion Joint Filler – West Side, North End	No Asbestos Detected
12	Preformed Expansion Joint Filler – West Side, North End	No Asbestos Detected
13	Bearing Pad – North End	No Asbestos Detected
14	Bearing Pad – North End	No Asbestos Detected
15	Bearing Pad – South End	No Asbestos Detected

Materials Identified as Asbestos-Containing

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). None of the materials sampled were found to be Asbestos Containing Material as defined by U.S EPA/NESHAP regulations.

Attachments

Appendix A contains the Ohio Department of Health certifications for Mr. Trevor Berger and Mr. Matt Geiger.

Appendix B contains the Bulk Sample Diagram.

Appendix C contains the laboratory results and chain-of-custody documentation for the asbestos bulk samples collected.

Appendix D contains the Ohio Environmental Protection Agency Notification of Demolition and Renovation.

Summary

On November 22, 2019 Mr. Matthew Geiger, Ohio Department of Health (ODH) Certified Asbestos Hazard Evaluation Specialist (AHES OH #35832) and Mr. Trevor Berger (AHES OH #35890) of Lawhon & Associates, Inc. (L&A) conducted an asbestos survey of SUM 00076 11480 R (I-76 West Bound) Ramp (SFN #7705972/PID 101402) to I77 South Bound, Akron, Ohio 44306. No asbestos-containing materials (ACM) were identified in the course of the survey. If you have any questions, please contact Matt Geiger or Trever Berger at (614) 481-8600.

Sincerely,

Matt Geiger, AHES 35832

Matt & Teiger

Project Manager

Trevor Berger, AHES 35890 Northeast Ohio Regional Manager

APPENDIX A OHIO DEPARTMENT OF HEALTH CERTIFICATIONS



Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

8/29/2019

Matthew Geiger Lawhon & Associates, Inc. 1441 King Avenue Columbus, OH 43212

RE:

Evaluation Specialist

Certification Number: ES35832 Expiration Date: 10/14/2020

Dear Matthew Geiger:

This letter and enclosed certification card approves your request to be certified as an asbestos Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Ohio Environmental Protection Agency (EPA) for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please contact the Asbestos Program at 614-644-0226 or by email at asbestoslicensing@epa.ohio.gov.

Sincerely.

Joshua S. Koch Manager, Business Operations Support Section Ohio EPA - Division of Air Pollution Control



The InService Training Network

Asbestos Building Inspector and Management Planner
Refresher Courses



Matt Geiger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 705D Lakeview Plaza Blvd, Worthington, OH 43085 (614) 436-0980

Course Dates: June 19, 2019

Course Director: ____

Kurt Varga

Expiration Date: June 19, 2020

Examination Date: June 19, 2019

Course Location: Worthington, Ohio

Certificate Numbers: ITNIR-6668 & ITNMPR-6668



Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

March 11, 2019

Trevor T Berger Lawhon & Associates, Inc. 1441 King Avenue Columbus OH 43212

RE: Asbestos Hazard Evaluation Specialist

Certification Number: ES35890 Expiration Date: 04/28/2020

Dear Trevor T Berger:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Joshua S. Koch Manager, Business Operations Support Section

Division of Air Pollution Control



This card is not valid if altered.

The InService Training Network

Asbestos Building Inspector and Management Planner Refresher Courses



Trevor Berger

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 705D Lakeview Plaza Blvd, Worthington, OH 43085 (614) 436-0980

Course Dates: February 6, 2019

Course Director:

Kunt Varga

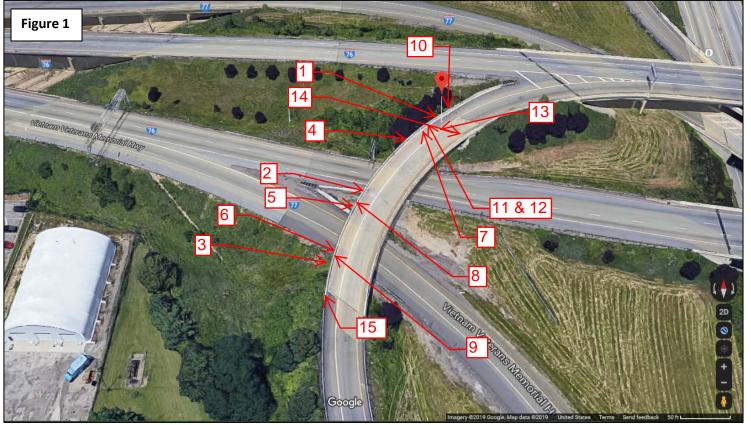
Expiration Date: February 6, 2020

Examination Date: February 6, 2019

Course Location: Worthington, Ohio

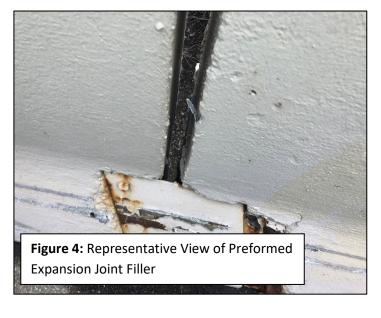
Certificate Numbers: ITNIR-6580 & ITNMPR-6580

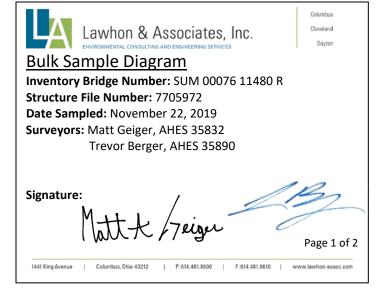
APPENDIX B BULK SAMPLE DIAGRAM





















Cleveland

Bulk Sample Diagram

Inventory Bridge Number: SUM 00076 11480 R

Structure File Number: 7705972

Date Sampled: November 22, 2019

Surveyors: Matt Geiger, AHES 35832

Trevor Berger, AHES 35890

Signature:

Matt & Feigur

Page 2 of 2

441 King Avenue | Columbus, Ohio 43212 | P:614.481.8600 | F:614.481.8610 | www.lawhon-assoc.com

APPENDIX C LABORATORY RESULTS AND CHAIN OF CUSTODY



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605508 - PLM

Columbus OH 43212 Project: Sum-00076-11480-R

Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6929284 Analyst Observation: Tan Paint Location: West Side North End

Client No.: 1 Client Description: Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6929285 Analyst Observation: Tan Paint Location: West Side Middle

Client No.: 2 Client Description: Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6929286 Analyst Observation: Tan Paint Location: West Side South End

Client No.: 3 Client Description: Paint Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6929287 Analyst Observation: Grey Mastic Location: West Side North End

Client No.: 4 Client Description: Reflector Mastic Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6929288 Analyst Observation: Grey Mastic Location: West Side Middle

Client No.: 5 Client Description: Reflector Mastic Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6929289 **Analyst Observation:** Grey Mastic **Location:** West Side South End

Client No.: 6 Client Description: Reflector Mastic Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/3/2019

Date Analyzed: 12/06/2019

Signature:

Analyst: Zach Schwartz

Dated: 12/6/2019 4:30:16

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 6



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605508 - PLM

Columbus OH 43212 Project: Sum-00076-11480-R

> Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6929290 **Analyst Observation:** Grev Non-Fibrous Location: West Side North End

Client Description: 1/4" Grey Sponge Parapet Joint Client No.: 7 **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929291 **Analyst Observation:** Grey Non-Fibrous **Location:** West Side Middle

Client No.: 8 Client Description: 1/4" Grey Sponge Parapet Joint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929292 **Analyst Observation:** Grey Non-Fibrous **Location:** West Side South End

Client No.: 9 Client Description: 1/4" Grey Sponge Parapet Joint **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6929293 **Analyst Observation:** Black Expansion Joint **Location:** West Side North End

Client No.: 10 **Client Description:** Preformed Expansion Joint Filler **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

70 Cellulose None Detected

Lab No.: 6929294 Analyst Observation: Black Expansion Joint Location: West Side North End

Client No.: 11 **Client Description:** Preformed Expansion Joint Filler **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

70 Cellulose None Detected

Lab No.: 6929295 Analyst Observation: Black Expansion Joint **Location:** West Side North End Client Description: Preformed Expansion Joint Filler Client No.: 12 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

Page 2 of 6

70 Cellulose None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

12/3/2019 Date Received:

12/06/2019 Date Analyzed:

Signature: Zach Schwartz Analyst:

Dated: 12/6/2019 4:30:16

Approved By:

Frank E. Ehrenfeld, III Laboratory Director



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605508 - PLM

Columbus OH 43212 Project: Sum-00076-11480-R

Project No.: 16-0568

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6929296 Analyst Observation: Brown Fibrous Location: North End

Client No.: 13 Client Description: Bearing Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 70 Cellulose 36

Lab No.: 6929297 Analyst Observation: Black Fibrous Location: North End

Client No.: 14 Client Description: Bearing Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 70 Cellulose 30

Lab No.: 6929298 Analyst Observation: Black Fibrous Location: South End

Client No.: 15 Client Description: Bearing Pad Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 70 Cellulose 3

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/3/2019

Date Analyzed: 12/06/2019

Signature:
Analyst: Zach Schwartz

Dated: 12/6/2019 4:30:16 Page

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Frank Tuanfol

Page 3 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605508 - PLM

Columbus OH 43212 Project: Sum-00076-11480-R

Client: LAW411 Project No.: 16-0568

Appendix to Analytical Report

Customer Contact:

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com iATL Office Manager:wchampion@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Dated: 12/6/2019 4:30:16 Page 4 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605508 - PLM

Columbus OH 43212 Project: Sum-00076-11480-R

Project No.: 16-0568

Client: LAW411

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process) Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique - by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004 **Requirements/Comments:** Minimum 50g** of dry sample. Analysis of "Sinks" only.

Dated: 12/6/2019 4:30:16 Page 5 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Lawhon & Associates Inc. Report Date: 12/6/2019

1441 King Avenue Report No.: 605508 - PLM

Columbus OH 43212 Project: Sum-00076-11480-R

Client: LAW411 Project No.: 16-0568

3)Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

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^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Lawhon & Associates, Inc.

1441 King Avenue Columbus, OH 43212 Phone: (614) 481-8600 Fax: (614) 481-8610

Sent To	1416	
	<u> </u>	

<u>o</u>j

VIA: FOBY

Turn around:

Date: $\sqrt{\frac{1}{2}}$ 2019

Page_

3-007

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:		Project No.:	Project Contact:	ct: Sampler (print):	(print):	Signature
5 cm- 000 76 - 11480-R	- 11480 - R	&950-91	757	Sing per		To the
Sample I.D. No.	Homog. Area No.	Sample /Homogeneous Area Description		Sample Location		Remarks
•	- Paint	5923284	180 Lest	CAH ALSON SOLY +	1) Dant analyze	Zc (oncrete
2		26269	 	m:331c		
3	H 	26769	286	South End	7	
h	2 Reflector	Mastic Do	3287		1 Dont analyze	zc plastic
٢	۲	18	3288	Midole	1	
و	. 7	- CO C C C C C C C C C C C C C C C C C C	563	South End	1	
rt	3 1/4" 950	Sponge		150 150 1 060 CO		Andrew Committee and the commi
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والمنطر					- P. C.	
SAMPLE ANALYSIS BY	EPA METHOD 600/R-	SAMPLE ANALYSIS BY EPA METHOD 600/R-93/116 UNLESS OTHERWISE NOTED.		1 NEC - 3 2019	C Stop 1st Positive	itive AAnalyze All Samples
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time Relir	Relinquished by: (signature)	Received by: (signature)	Date / Time
Distributor Whita - I ah Yallow - Fila	v Yallow - File	23	12/6/19	The second second	MANNAH	M 12/10/19

APPENDIX D OHIO ENVIRONMENTAL PROTECTION AGENCY NOTICE OF DEMOLITION AND RENOVATION



Notification of Demolition and Renovation/Abatement Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, <u>including payment</u>, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at *epa.ohio.gov/asbestos*. This form can be completed, and payment made, at *ebiz.epa.ohio.gov*. Questions? *asbestos@epa.ohio.gov* or (614) 466-0061.

Ohio EPA Use Only	Notification #:		Postmark	ed:	/ /	/		Received:	/	/			☐ Har	nd-Deliver	ed
1) Notification Inf	ormation (Check all that a	apply)													
☑ Original ☐ R	evision # (count):	☐ Installation	☐ Emerge	ency	□ A	nnual		Cancellation	Coun	ty:Sum	mit				
2) Owner, Asbesto	s Abatement Contractor,	Billing and Fire De	partment I	nformat	ion									Revi	sed?
Owner															
Name: ODOT District	: 4									Is t	his a c	ompa	any? 🛚	Yes 🗌	No
Address: 2088 South	n Arlington Road					Contact F	Perso	on:							
City: Akron				State: O	hio				Z	ip: 443	06 -				
Email:				Phone: ((330) 786	- 3	100	F	ax: (3	30)	786	- 2226	j	
Asbestos Abatement	Contractor (if applicable)								Ţ,						
Name:					Lic	ense #: A	AC				Expira	tion [Date:	/ /	
Address:						Contact F	Perso	on:							
City:				State:					Z	ip:	-				
Email:				Phone: (()	-		F	ax: ()		-		
Billing Contact															
Is this contact associ	ated with the 🔲 Owner,	Asbestos Aba	tement Co	ntractor,	or [] Demoli	ition	Contractor (i	if not i	nstalla	tion)?				
Address:						Contact F	Perso	on:							
City:				State:					Z	ip:	-				
Email:				Phone: (()	-		F	ax: ()		-		
Fire Department (if a	pplicable)														
Name:															
Address:						Contact F	Perso	on:							
City:				State:					Z	ip:	-				
Email:				Phone: (()	-		F	ax: ()		-		
3) Ohio Asbestos H	lazard Evaluation Special	ist and Evaluation	Procedure											Revi	sed? 🗌
Evaluation Specialist	: Matt Geiger				Certif	ication #:	ES	35832		Expirat	ion Da	ate: 10	0/14/	2020	
_	analytical methods, empl ory II non-friable asbestos	-	-	of and to				tity of regulant TEM							and
4) Procedures to b	e followed should unexpo	ected RACM be dis	covered (cl	neck all t	that a	pply)								Revi	sed? 🗌
Stop work and ke	eep wet 🛛 Eva	cuate area	⊠ D	emarcate	e area	9		⊠ c	ontact	license	ed aba	iteme	nt conti	actor	
	office/local air authority														
Other (Explain):															
5) Planned Demoli	tion (check all that apply)													Revi	sed? 🗌
	work to be performed and Fire Training 🔲 Wet N	, ,		_				•		r (Expla	in):				
Description of affect	ed facility components (in	clude attachment	if necessary	·):											

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos 50 W. Town St., 7th Floor or P.O. Box 1049 Columbus, OH 43216-1049

6) Asbestos Description and	Engineering Controls (if	asbestos is being aba	ated)							Revised?
For the material listed in each ensure proper waste handling		e(s) of ACM to be aba	ated, engineeri	ng con	ntrols and work pr	ractices to	be used	to minin	nize emis	sions and
Type of ACM to be abated:	Surfacing	☐ Mechanical	Other							
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE		AFD	Oth	er:			
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechan	ical	Other:	•				
7) Asbestos Waste Transpor	ter (if applicable)									Revised?
Transporter #1 Name:										
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
Transporter #2 Name (if applic	able):									
Address:				Cont	act Person:					
City:			State:				Zip:	-		
Email:			Phone: ()	-		Fax: ()	-	
8) Asbestos Waste Disposal	Site (if applicable)									Revised?
Name:										
Address:				Cont	act Person:					
City:			State:			Z	Zip:	-		
Email:			Phone: ()	-	ı	Fax: ()	-	
9) Emergency Demolition (c	omplete if you checked "	'Emergency" above a	and "Demolitio	n" for	any project)	•				Revised?
A copy of the issued order, inc	luding the following infor	rmation, must be atta	ached to this n	otifica	tion.					
Government Official Issuing O	rder:		Title:							
Agency:			Authority	of Or	der (Citation of C	Code):				
Date of Order: / /			Demoliti	on Dat	te: / /					
10) Emergency Renovation/A	batement (complete if y	ou checked "Emerge	ncy" above an	d "Rei	novation/Abatem	nent" for a	ny proje	ect)		Revised?
Date of Emergency: / /			Time of E	merge	ency: :	a.m. [D.m.			
Description of Sudden, Unexp	ected Event:		•							
Explanation of how the event	caused unsafe conditions	s or equipment dama	ge:							
11) Attestation										Revised?
In accordance with Ohio Admi Administrative Code will super prohibited by law and I certify	rvise the stripping and rer	moval described by th	his notification.	l ack	nowledge that th					
Signature:			<u>, </u>		Date: /	/				
Name:			Title:							
Organization:										



Notification of Demolition and Renovation/Abatement Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #	# :										
A. Facility Descri	ption								Revised?			
Building Name (if a	oplicable): SUI	M 0006 11480 R		Site Lo	cation (specific): 0.0	6 Mi W Of Sr	8					
Address: 41°03'42.7	75"N 81°30'21	.98"W				Cour	nty: Summit					
City: Akron				State:	ОН	Zip:	44307 -					
Building Size (squar	e feet): 9,11	.7		ı	No. of Floors:			Age: 59				
Present Use: Bridge	9			F	Prior Use:							
B. Type of Opera	ation (check a	ll that apply)							Revised?			
☐ Demolition	⊠ Reno	ovation/Abatement – Ty _l	pe: 🔲 Removal	☐ R	epair 🔲 Encapsu	lation 🔲 I	Enclosure					
C. Asbestos Pres	ent (check on	e)							Revised?			
☐ Yes		No, previously abated	l Year A	bated:								
D. Approximate	Amount of As	bestos-Containing Mate	erials (complete	table be	elow and Section 1	#6 if asbesto	s is present)		Revised?			
			Material to	be Rem	oved		Ma	terial NOT to l	oe Removed			
			Non-fria	ble Asb	estos-Containing Ma	aterial	Non-friat	ole Asbestos-Co	ontaining Material			
		RACM	Catego	ry I	Categ	ory II	Categ	ory I	Category II			
Pipes (linear feet)												
Surface area on oth	er facility											
volume if length or be measured (ft³)	area cannot											
E. Asbestos Aba	tement Sched	ule and Abatement Spe	cialist (original n	otificat	ion is required 10 w	orking days	prior to the sta	rt of work)	Revised?			
Setup Date: /	/	Abater	nent Date: /	/		Co	mplete Date:	/ /				
(Shift 1) Time	Monday	/ Tuesday	Wednes	day	Thursday	Frio	day	Saturday	Sunday			
start/end on site												
Abatement Speciali	st Name:			Certif	fication #: AS			Expiration Da	nte: / /			
(Shift 1) Time	Monday	, Tuesday	Wednes	day	Thursday	Frid	day	Saturday	Sunday			
start/end on site												
Abatement Speciali	st Name:		Certif	fication #: AS	Expiration Da	nte: / /						
F. Demolition Co	ontractor (if a	pplicable)							Revised?			
Name:												
Address:					Contact Per	rson:						
City:				State:			Zip:	-				
Email:				Phone: () - Fax: (-			
G. Demolition Sc	hedule (origin	nal notification is requir	ed 10 working da	ays prio	r to the start of wo	rk)			Revised?			
Start Date: /	/			Comple	ete Date: / /							
H. Project Hold									Revised?			
Hold Begin Date:	/ /			Work Resume Date: / /								