March 7, 2021

Mr. Mark Carpenter, P.E. District 12 Environmental Engineer 5500 Transportation Blvd Garfield Hts., Ohio 44125

Re: CUY-BH-FY2023 Misc (PID 105909) Asbestos Survey

CUY-480-4.440, Columbia Road over I-480

SFN 1814109

Dear Mr. Carpenter,

EnviroScience, Inc. was contracted by the Ohio Department of Transportation to provide an asbestos survey of the CUY-480-4.440 bridge structure over Interstate 480. The bridge location coordinates are 41.4150, -81.8936.

The 273-foot long four-span continuous steel beam bridge with reinforced concrete deck and substructure will undergo replacement. Bridge inventory report information indicates the structure to have been originally built in 1980. A site location map is included in Appendix A.

#### **Asbestos Regulations and Definitions**

Prior to the demolition or renovation of a structure (including bridge structures), an asbestos inspection must be conducted by a licensed asbestos hazard evaluation specialist in accordance with National Emissions Standard for Hazardous Air Pollutants (NESHAP) Guidelines, EPA Regulation 40 CFR, Subpart M, Part 61 and OEPA asbestos regulations (OAC 3745-20). Further, the Occupational Safety and Health Administration's (OSHA's) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) regulates all renovation and demolition work involving building materials which contain any amount of asbestos.

NESHAP, OEPA, and OSHA asbestos regulations define asbestos-containing material (ACM) as any material containing greater than one (1) percent asbestos as determined by polarized light microscopy. NESHAP regulations require that all materials suspected of containing asbestos be sampled to determine asbestos content or be assumed to be an ACM and, therefore, treated as such. Materials that are determined or assumed to be ACMs shall be quantified and assessed by a licensed inspector. The materials then shall be characterized and assigned one of the following designations: Friable, Category I Non-friable, and Category II Non-friable.

<u>Friable ACM</u> is defined by the Asbestos NESHAP regulations as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dried, can be crumbled, pulverized, or reduced to powder by hand pressure.

<u>Non-friable ACM</u> is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM can remain on the structure during renovation/demolition if it will not be sanded, grinded, cut, abraded, or made friable by any means. The two categories of non-friable ACM are described as follows:



- <u>Category I Non-friable ACM</u> asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products.
- <u>Category II Non-friable ACM</u> any asbestos-containing material excluding Category I Non-friable ACM.

#### Regulated ACM (RACM) is defined as:

- Friable asbestos material.
- Category I Non-friable ACM that has become friable.
- Category I Non-friable ACM that has been or will be involved in sanding, grinding, cutting, or abrading.
- Category II Non-friable ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder by forces expected to act on the material during renovation or demolition.

#### **Asbestos Survey Summary**

Bridge Plan Review - EnviroScience performed a limited review of available bridge construction plans that were compiled by the department and placed on ODOT's FTP site. Based on our review of portions of the CUY-480-4.440 plans, several banks of six (6) O.B.T and CEI conduits were shown to be affixed to the cross bracing along with box outs in the abutment wall for the conduits to pass through. The conduit material type is not identified in the plans. The plans show a smaller rack containing three (3) conduits and identifies them to be 5" Transite conduits. Two gas lines were shown in the plans to be attached to the underside of the bridge including a 6-5/8" OD line on the east side and a 4-1/2" OD line on the west side of the structure. It was also noted that the plans called out the use of ½" gray sponge rubber or ½" gray cellular polyvinyl chloride (PVC) sponge preformed expansion joint filler material in the parapet details.

<u>Asbestos Survey</u>- An asbestos survey of the subject bridge structure was conducted on 01/13/21 by C.E. Kessler, Certified Asbestos Hazard Evaluation Specialist #ES34704 and Amy Wakefield, Certified Asbestos Hazard Evaluation Specialist #ES543881.

All accessible portions of the CUY-480-4.440 bridge were field investigated for the presence of suspected ACMs. A visual inspection of the top and bottom sides of the structure including the deck, beams, abutments, parapets, vandal fencing, and utilities was conducted. Affixed utilities consisted of a bank of three (3) 5" Johns-Manville Transite conduit lines and a bank of six (6) PVC conduits. In addition, two gas lines were observed beneath the structure as described in the above plan review. One gas line was encased with a tarred, fibrous pipe wrap and the other was painted.

The following table summarizes the samples that were collected:

Table 1 – Sample Summary – CUY-480-4.440 Bridge SFN 1814109								
Sample Homogeneous Area Category Location of Sample Positive f								
Col-1	Pipe Wrap	Misc	4" gas line, underside of structure	No				
Col-2	Pipe Wrap	Misc	Gas line	No				
Col-3	Packing Material	Misc	Gas line casing through backwall	No				



Table 1 – Sample Summary – CUY-480-4.440 Bridge SFN 1814109									
Sample	Homogeneous Area	Category	Location of Sample	Positive for Asbestos?					
Col-4	Transite Coupler	Misc	North back wall	Yes					
Col-5	Paint Coating	Misc	6" utility line, underside of structure	No					
Col-6	Paint Coating	Misc	6" utility line, underside of structure	No					
Col-7	6" utility line packing material	Misc	North backwall	No					
Col-8	Mastic Sealant	Misc	2" electric conduit raceway - between parapet and back wall	Yes					
Col-9	Butyl Sealant	Misc	Vandal fence mounting flange	No					
Col-10	Joint Caulking	Misc	Parapet	No					
Col-11	Joint Caulking	Misc	Parapet	No					
Col-12	Joint Caulking	Misc	Parapet	No					

All bulk samples collected were submitted to IATL International Asbestos Testing Laboratories of Mount Laurel, New Jersey, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. Appendix B includes an IATL laboratory Chain of Custody, sampling log, and laboratory analysis report. A bridge sketch and photo log are provided in Appendix C.

#### **Conclusion and Recommendations**

Lab analysis of bulk samples taken from the CUY-480-4.440 structure indicates that asbestos containing material was identified. Results are listed in the table below.

Homogeneous Area	Category	Location of Sample	Positive Asbestos?	Quantity ACM
Mastic Sealant	Misc	Gap between parapet and abutment backwall	Yes	Less than 1 sq ft
Transite coupler	Category II	North backwall	Yes	Included in conduit footage
Transite conduit	Category II	No sample taken- underside of structure	Assumed Yes	819 LF

If suspect ACMs are revealed during demolition or renovation activities that were not identified during this survey it is recommended that work activities cease until a Certified Asbestos Hazard Evaluation Specialist can evaluate the new material(s). Any removal and subsequent disposal of the asbestos containing material during demolition operations must comply with the Ohio



Administrative code, the occupational Safety and Health Administration (OSHA) regulations and the National Emission Standard for Hazardous Air pollutants (NESHAP). Reference the Ohio Environmental Protection Agency adopted chapters 3745-20-03 & 3745-20-04 of the Ohio Administrative Code. This implements the NESHAP standards for asbestos and its removal.

#### Notification

An OEPA Notification of Demolition and Renovation form must be submitted ten (10) working days prior to work activities. Appendix D contains the OEPA form of which Section 1 - General Information 1, 2, 3, 4, and 5; and Section 2 - Project Address Specific Information A, B, C, and D have been completed.

Once the Contractor has been selected for the project, the remaining sections of the form shall be completed (as applicable) and the notification form submitted with the proper remittance to the following address at least 10 working days prior to starting work:

Ohio EPA, DAPC Asbestos P.O. Box 1049 Columbus, Ohio 43216-1049

The form may also be completed/submitted via on-line at https://epa.ohio.gov/dapc/atu/asbestos.

AHES Signature

Charles E. Kessler, AICP, CAHES, CEP

Asbestos Hazard Evaluation Specialist #ES34704

Attachments





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

Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: EnviroScience, Inc. Report Date: 1/21/2021

5070 Stow Road Report No.: 626738 - PLM

Stow OH 44224 Project: **ODOT District 12 Bridges-CUY** 

> Project No.: 33582

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7129118 **Analyst Observation:** Silver Wrap Location: 4" Gas Line

Client Description: Pipe Wrap Client No.: Col-1 **Facility:** 

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

15 Synthetic None Detected

Lab No.: 7129119 **Analyst Observation:** Silver Wrap **Location:** 4" Gas Line

Client No.: Col-2 Client Description: Pipe Wrap **Facility:** 

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

15 Synthetic None Detected

Lab No.: 7129120 Analyst Observation: Silver/Black Wrap Location: 4" Gas Line Casing

Client No.: Col-3 Client Description: Packing **Facility:** 

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

15 Synthetic None Detected

5 Cellulose

Location: Transite Coupler Lab No.: 7129121 **Analyst Observation:** Grey Cement Product

Client No.: Col-4 Client Description: North Back Wall Packing **Facility:** 

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

None Detected **30** Chrysotile

10 Crocidolite

Analyst:

Client: ENV507

Sample received wet

Lab No.: 7129122 **Analyst Observation:** Brown/White Paint **Location:** Water Line

Client No.: Col-5 **Client Description:** Paint Coating **Facility:** 

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

None Detected None Detected

Lab No.: 7129123 **Analyst Observation:** Brown/White Paint Location: Water Line

Client No.: Col-6 **Client Description:** Paint Coating **Facility:** 

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

Page 1 of 5

None Detected 100 None Detected

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

1/18/2021 Date Received:

01/21/2021 Date Analyzed:

Dougen David Signature:

David Hayes

Dated: 1/21/2021 4:56:48

Approved By:

Frank E. Ehrenfeld, III Laboratory Director



Client: ENV507

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

Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: EnviroScience, Inc. Report Date: 1/21/2021

5070 Stow Road Report No.: 626738 - PLM

Stow OH 44224 Project: ODOT District 12 Bridges-CUY

Project No.: 33582

#### PLM BULK SAMPLE ANALYSIS SUMMARY

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Lab No.: 7129124Analyst Observation: Brown/Tan Pipe MaterialLocation: 6" Pipe Casing

Client No.: Col-7 Client Description: North Back Wall Packing Facility:

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

None Detected 2 Cellulose 9

Sample received wet

Lab No.: 7129125Analyst Observation: Grey SealantLocation: 2" Conduit - ElectricClient No.: Col-8Client Description: Mastic SealantFacility:

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

**25** Chrysotile None Detected 7:

Lab No.: 7129126 Analyst Observation: Black Sealant Location: Vandel Fence Mounting Flange

Client No.: Col-9 Client Description: Butyl Sealant Facility:

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

None Detected None Detected 100

Lab No.: 7129127 Analyst Observation: Grey Expansion Joint Location: Parapet Railing

Client No.: Col-10 Client Description: Joint Caulking Facility:

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

None Detected None Detected 10

Lab No.: 7129128 Analyst Observation: Grey Expansion Joint Location: Parapet Railing

Client No.: Col-11 Client Description: Joint Caulking Facility:

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

None Detected None Detected 100

Lab No.: 7129129 Analyst Observation: Grey Expansion Joint Location: Parapet Railing

Client No.: Col-12 Client Description: Joint 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: 1/18/2021

Date Analyzed: 01/21/2021

Signature: David Hayen

Analyst: David Hayes

Dated: 1/21/2021 4:56:49

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director

Page 2 of 5



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

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#### **CERTIFICATE OF ANALYSIS**

Client: EnviroScience, Inc. Report Date: 1/21/2021

5070 Stow Road Report No.: 626738 - PLM

Stow OH 44224 Project: ODOT District 12 Bridges-CUY

Client: ENV507 Project No.: 33582

### Appendix to Analytical Report

Customer Contact: Chuck Kessler

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: House Account 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: 1/21/2021 4:56:49 Page 3 of 5



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

Email: customerservice@iatl.com

#### **CERTIFICATE OF ANALYSIS**

Client: EnviroScience, Inc. Report Date: 1/21/2021

5070 Stow Road Report No.: 626738 - PLM

Stow OH 44224 Project: ODOT District 12 Bridges-CUY

Project No.: 33582

Client: ENV507

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. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198\_8\_02\_2.pdf)

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% for most samples.

Dated: 1/21/2021 4:56:49 Page 4 of 5



Client: ENV507

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

Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: EnviroScience, Inc. Report Date: 1/21/2021

5070 Stow Road Report No.: 626738 - PLM

Stow OH 44224 Project: ODOT District 12 Bridges-CUY

Project No.: 33582

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.

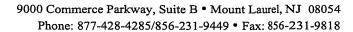
3) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

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. \*With advance notice and confirmation by the laboratory.

Dated: 1/21/2021 4:56:49 Page 5 of 5

<sup>\*\*</sup>Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).





## **Chain of Custody**

	–Bulk A	Asbestos –						
Contact Informa	ation							
Client Company:	EnviroScience Inc	<b>Project Number:</b>	33582					
Office Address:	5070 Stow Road	Project Name:	ODOT District 12 Bridges- CUY					
City, State, Zip:	Stow, Ohio 44224	Primary Contact:	Chuck Kessler					
Fax Number:		Office Phone:	330-688-0111					
Email Address:	ckessler@enviroscienceinc.com	Cell Phone:	330-592-9619					
Eman Addi ess.	and a distribution of the second of the seco	Cen i none.	330-332-3019					
PLM: Bulk Asbe PLM: Point Cour PC: via ELA PC: 400 Poin PC: 800 Poin PC: 1600 Poi PC: 1600 Poi Report Comp	PLM Instructions:  PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993  PLM: Bulk Asbestos Building Materials PA 600 M-4/82-020, 1982  PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002  PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010  TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010  TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009  PLM: Point Counting  PC: via ELAP 198.1  PC: via ELAP 198.1  PC: 400 Points  PC: 400 Points  PC: 800 Points *  PLM: Instructions for Multi-Layered Samples  Analyze and Report All Separable Layers per EPA 600  Report Composite for Drywall Systems per NESHAP  Report All Layers and Composite Where Applicable  Only Analyze and Report Specifically Noted Layer  Cell Phone: 330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619  330-592-9619							
* Additional c	harge and turnaround may be required ** Alte	rnative Method (ex: EPA 600/R-0-	4/004) may be recommended by Laboratory					
* End of next	equested Date: January 22, 2021  Specific date / time  10 Day 5 Day 3 Day 2 Day business day unless otherwise specified. ** M	•	6 Hour** RUSH**					
Chain of Custo Relinquished (Name Received (Name / iA Sample Login (Name Analysis(Name(s) / i QA/QC Review (Name Archived / Released:	/Organization): C. Kessler/EnviroScience Inc ATL): e / iATL): ATL): me / iATL):	Date: 1/14/21 Date: Date	Time: 13:00 Time: Time: Time: Time: Time: Time:					



# Sample Log

-Bulk Asbestos -

Client: ODOT District 12	Project:	CUY-480-4.440 Columbia Rd over I-480
Sampling Date/Time: 01/13/21	11:45	

Bulk Asbestos Sample Log								
,								
Client Sample #	iATL#	Location/Description	Notes					
Col-1	7129118	4" Gas Line	Pipe Wrap					
Col-2	7129119	4" Gas Line	Pipe Wrap					
Col-3	7129120	4" Gas Line Casing	Packing					
Col-4	7119121	Transite Coupler	North Back Wall Packing					
Col-5	7129122	Water Line	Paint Coating					
Col-6	7119123	Water Line	Paint Coating					
Col-7	7129424	6" Pipe Casing	North Back Wall Packing					
Col-8	77123125	2" Conduit- electric	Mastic Sealant					
Col-9	7123126	Vandel Fence Mounting Flange	Butyl Sealant					
Col-10	7129127	Parapet Railing	Joint Caulking					
Col-11	7120128	Parapet Railing	Joint Caulking					
Çol-12	7129129	Parapet Railing	Joint Caulking					
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- Company of the Comp		"						

Celebraning , N. e a socione sample di cenne y a spatigomi





PHOTO 1 Looking north at CUY-480-4.440 bridge



PHOTO 2 Looking at pipe wrap over 4" gas line affixed to the underside of the structure. Sample collected of wrap material.

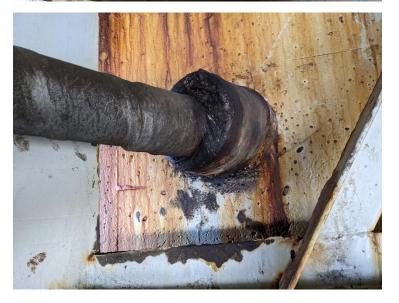


PHOTO 3
Gas line casing through backwall for 4 1/2" gas line. Sample taken of packing.

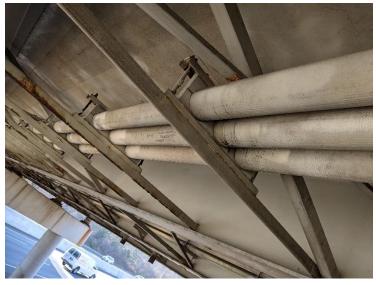


PHOTO 4 View looking at underside of structure. Bank of 3 Transite conduits are present.



PHOTO 5 View looking at east wall parapet railing. Sample taken of joint caulking.



PHOTO 6 View looking at the rocker and bearing pad that is all metal.



PHOTO 7 View looking north at the west side of the bridge showing fencing, sidewalk and gas line demarcation sign.



PHOTO 8 View looking down at vandal fence mounting flange. Joint caulking was sampled.

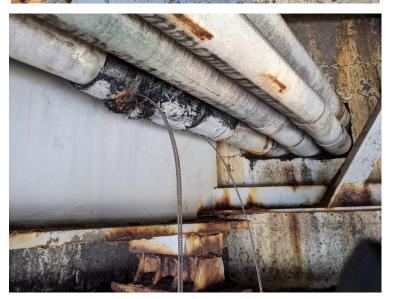


PHOTO 9 Bank of six PVC conduits on underside of structure.



PHOTO 10 View looking at the northside of structure, where mastic sealant sample from 2" electrical conduit line was taken.



PHOTO 11 View looking at transite coupler. Sample taken here.



PHOTO 12 View looking at north back wall 6 5/8" gas line packing material.



PHOTO 13 View of 6 5/8" O.D. gas line. Paint samples taken from here.



# 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.

Oh	io EPA Use	•	L			Postmar	ked:	/	/		Received:	/ /		☐ Ha	ınd-Delivered
1)			ormation (Check	1_		_		1—		I_		Ī			
$\bowtie$	Original	∐ R	levision # (count):	∐ In	stallation	Emerg	ency	<u> </u>	Annual	L Ca	ncellation	Project C	ounty: CI	uyahoga	
2)	2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information Revised?														
Ow	vner														
Na	Name: Ohio Department of Transportation   Is this a company?   Yes   No														
Ad	Address: 5500 Transportation Blvd Contact Person: Mark Carpenter														
Cit	<sub>y:</sub> Garfiel	d He	ights				State:	ОН				Zip: 4	4125 -		
Em	nail: Mark	.Carp	enter@dot.s	state.oh.us			Phone	:( 2:	16) 58	34 -	2089	Fax: (	Fax: ( ) -		
Asl	bestos Abat	ement	Contractor (if ap	plicable)											
Na	me:							Li	icense #:	AC			Expirat	ion Date:	/ /
Ad	dress:								Contact	Person:	:		•		
Cit	y:						State:					Zip:	-		
Em	nail:						Phone	: (	)	-		Fax: (	)	-	
Bill	ling Contact	:										•			
ls t	Is this contact associated with the \( \text{\backsquare} \) Owner, \( \text{\backsquare} \) Asbestos Abatement Contractor, or \( \text{\backsquare} \) Demolition Contractor (if not installation)?														
Ad	dress:								Contact	Person:	:				
Cit	y:						State:					Zip:	-		
Em	nail:						Phone	: (	)	-		Fax: (	)	-	
Fire	e Departme	ent (if a	applicable)												
Na	me:														
Ad	dress:								Contact	Person:	1				
Cit	y:						State:					Zip:	-		
Em	nail:						Phone	: (	)	-		Fax: (	)	-	
3)	Ohio Asbe	estos F	lazard Evaluation	Specialist and I	Evaluation	Procedure	)								Revised?
Eva	aluation Spe	ecialist	: Charles Kess	sler				Cert	ification #	t: ES 3	4704	Expi	ration Da	te: 10 / 7	/2021
		-	analytical metho ory II non-friable			-								ining mater od (Explain	
Βι	ılk Samp	ling	w/point cour	nt of sample	s that a	re less t	han 1	0% a	asbesto	s con	taining				
4)	Procedure	es to b	e followed should	d unexpected R	ACM be di	scovered (d	check al	ll that	apply)						Revised?
$\boxtimes$	Stop work	and k	eep wet	☐ Evacuate ar	ea		emarca	ate ar	ea		□ co	ontact lice	nsed abat	ement cont	tractor
	Contact district office/local air authority														
$\boxtimes$															
	5) Planned Demolition (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):  Existing structure components will be removed by industry standard means and methods														

Mail completed form and payment to: Ohio EPA, DAPC – Asbestos P.O. Box 1049, Columbus, OH 43216-1049

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

Continued

Description of affected facility components (include attachment if necessary): 3 (Revised 02/18) Page 1 of 6) Asbestos Description and Engineering Controls (if asbestos is being abated) Revised? For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling: Other Type of ACM to be abated: ■ Surfacing Wet Methods Glove Bag ☐ NPE AFD Other: **Engineering Controls:** ☐ Manual Mechanical Other: Work Practices: Intact Removal 7) Asbestos Waste Transporter (if applicable) Revised? Transporter #1 Name: Contact Person: Address: State: City: Zip: Phone: ( Email: Fax: ( ) Transporter #2 Name (if applicable): Address: Contact Person: City: State: Zip: Email: Phone: ( Fax: ( 8) Asbestos Waste Disposal Site (if applicable) Revised? Name: Contact Person: Address: City: State: Zip: Email: Phone: ( Fax: ( 9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project) Revised? A copy of the issued order, including the following information, must be attached to this notification. Government Official Issuing Order: Authority of Order (Citation of Code): Agency: Date of Order: **Demolition Date:** 10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) Revised? Date of Emergency: Time of Emergency: ☐ a.m. ☐ p.m. Description of Sudden, Unexpected Event: Explanation of how the event caused unsafe conditions or equipment damage: Revised? 11) Attestation In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete. Signature: Date: Name: Mark Carpenter Title: District 12 Environmental Engineer Organization: Ohio Department of Transportation



## 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 Description Revised?											
Building Name (if a		Site Location (specific): Columbia Road over I-480 SFN 1814109									
Address: Columbia Road over I-480, Coordinates: 41.41500, -81.89361											
City: North Olm	stead			State:		ОН	zip: 4	4070 -			
Building Size (squar	e feet):				No. of	Floors:			Age: 41		
Present Use: High	nway Bridg	е			Prior L	Jse: <b>Highway</b>	Bridge				
B. Type of Opera	B. Type of Operation (check all that apply)										
□ Demolition	Reno	vation/Abatement – Ty	oe: 🗌 Removal	I	Repair	Encapsulat	tion 🗌 E	inclosure			
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 Section 1 #6	if asbestos	is present)		Revised?	
			Material to I	oe Rem	oved			M	aterial NOT to	be Removed	
			Non-frial	ole Asb	estos-	Containing Mate	rial	Non-fria	ble Asbestos-0	Containing Material	
		RACM	Catego	ry I		Category	<i>t</i> II	Cate	gory I	Category II	
Pipes (linear feet)						819					
Surface area on oth components (ft²)	er facility									1	
Volume if length or be measured (ft³)	area cannot										
E. Asbestos Aba	tement Sched	ule and Abatement Spe	cialist (original r	otifica	tion is	required 10 wor	rking days <sub>l</sub>	prior to the st	art of work)	Revised?	
Setup Date: /	/	Abaten	nent Date: /	/			Com	nplete Date:	/ /		
(Shift 1) Time	Monday	day Tuesday Wednes		day 7		Thursday	Frid	ay	Saturday	Sunday	
start/end on site									ı		
Abatement Speciali	st Name:		1	Certification #: AS				Expiration D	Date: / /		
(Shift 1) Time	Monday	Tuesday	Wednes	day		Thursday	Frid	ay	Saturday	Sunday	
start/end on site				_							
Abatement Speciali	st Name:			Certification #: AS Expiration Date: / /							
F. Demolition Co	ontractor (if ap	oplicable)								Revised?	
Name:						1					
Address: Contact Person:											
City: State: Zip: -											
Email:         Phone: ( ) -         Fax: ( ) -											
G. Demolition Schedule (original notification is required 10 working days prior to the start of work)  Revised?											
Start Date: /	/			Comple	ete Da	ite: / /					
H. Project Hold											
Hold Begin Date: / / Work Resume Date: / /											