Asbestos Survey

OTIC-71-22-03 MP 199.5 Structure Replacement Project Portage County, Ohio

Prepared by GPD Group for:

Ohio Turnpike Commission
682 Prospect Street
Berea, Ohio 44017

October 28, 2022

GPD GROUP®

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Asbestos Survey

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1.0 Asbestos Survey Summary

As requested by the Ohio Turnpike and Infrastructure Commission (OTIC), the Client, on August 11, 2022, GPD Group conducted an asbestos survey on an existing bridge. The bridge is located at Mile Post 199.5W/199.5E (MP 199.5) and carries State Route (SR) 88 over the Ohio Turnpike mainline in Portage County, Ohio. Specifically, the MP 199.5 bridge is 9.7 miles west of Exit 14 along the Ohio Turnpike. According to the National Bridge Inventory, the bridge was constructed in 1954.

The scope of work for this asbestos survey included all accessible bridge areas to be surveyed for the presence of asbestos material prior to the Ohio Turnpike and Infrastructure Commission's (OTIC) renovation of the bridge. GPD Group conducted a physical walk thru inspection of the bridge and collected bulk samples of any suspect materials, documenting and recording locations of the samples, whether the material was friable or non-friable, and assessing the potentially hazardous condition of the friable ACBM. All work was conducted in conformance with the US EPA Rule 40 CFR, Part 61, Subpart M.

In all, twenty-three (23) bulk samples were collected. All samples were analyzed using PLM-visual estimation. If there were any samples with concentrations of fibers between 1% and 10%, the sampling protocol calls for the samples to be analyzed by the 400 Point Count Procedure with Gravimetric Reduction. All the samples from the survey were submitted to be analyzed by the Polarized Light Microscopy (PLM) method at EMSL Analytical, Inc. The Environmental Protection Agency defines asbestos containing material as material containing more than 1% asbestos. Analytical results indicated that no (0) samples had asbestos fibers greater than 1%.

2.0 Asbestos Survey Report

A GPD Group licensed Ohio Asbestos Hazard Evaluation Specialist arrived onsite at the OTIC MP 199.5 August 12, 2022, approximately at 9:00 a.m.

2.1 Methods

GPD Group conducted a physical site inspection of the existing bridge. Locations of the materials that were sampled were also documented. All work was conducted in conformance with the US EPA Rule 40 CFR, Part 61, Subpart M. Sample locations can be found in **Appendix A**.

2.2 Analytical Analysis

EMSL Analytical, Inc., located in Indianapolis, Indiana, was selected to provide detailed bulk sample analysis reports. The Polarized Light microscopy (PLM) method was used for analyzing bulk materials to determine if asbestos was present in the material sampled. PLM utilizes a light microscope equipped with polarizing filters. Asbestos fiber bundles are determined by the visual properties displayed when the sample is treated with various dispersion staining liquids. Identification is substantiated by the actual structure of the fiber and the effect of polarized light on the fiber. The PLM point counting procedure improves the accuracy and precision over the regular PLM Visual Estimate procedure. With more points analyzed, the better the accuracy and the method, especially when the sample has a low concentration of asbestos. EMSL Analytical, Inc. is accredited by the National Institute of Standards and Technology under the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis. The analytical report can be found in **Appendix B**.

2.3 Results

Polarized Light Microscopy (PLM)

MP 199.5

The bridge was originally constructed in 1954 and carries SR 88 over the Ohio Turnpike. The bridge at MP 199.5 will be completely replaced. The bridge is a four-span bridge with a concrete cast-in-place deck type. The overall length of the bridge is approximately 249.00 feet (bridge limits).

The analytical results can be found in the following table.

OTIC MP 199.5 Sample Number(s)	Sample Location / Description	Asbestos Content/ ACM Category
199TPost01	Top Cream Post Sealant	None Detected
199TPost02	Top Cream Post Sealant	None Detected

199TFlange01	Top Flange- Black Rubber Material	None Detected
199TFlange02	Top Flange- Black Rubber Material	None Detected
199Tins01	Top Deck- Gray Insulation	None Detected
199Tins02	Top Deck- Gray Insulation	None Detected
199EPatch01-Concrete	Under Deck- Cream Concrete W Tape	None Detected
199EPatch01-Tape	Under Deck- Cream Concrete w Tape	None Detected
199Paint01	Beam Under Bridge- Green Paint	None Detected
199Paint02	Beam Under Bridge- Green Paint	None Detected
199Deck01	Deck- Gray Concrete	None Detected
199Deck02	Deck- Gray Concrete	None Detected
199EAbut01	Abutment- Gray Concrete	None Detected
199EAbut02	Abutment- Gray Concrete	None Detected
199WDeck01	Westbound Deck- Gray Concrete	None Detected
199WAbut01	Westbound Deck- Gray Concrete	None Detected
199WPaint01	Westbound Beam- Green Paint	None Detected
199WExpFlange01	Westbound Flange- Black Rubber Material	None Detected
199WExpFlange02	Westbound Flange- Black Rubber Material	None Detected
199WSealant01	Westbound Deck- Soft Gray Sealant	None Detected

199WSealant02	Westbound Deck- Soft Gray Sealant	None Detected
199EINS01	Eastbound Under Deck- White Insulation	None Detected
199EIns02	Eastbound Under Deck- White Insulation	None Detected

Analytical Results indicated that there were no (0) samples analyzed as having a concentration of asbestos fibers greater than 1% according to PLM- Visual Estimate Procedure.

2.4 Conclusions

The asbestos survey completed for this project included sampling, assessment, and analysis of suspect bridge building materials. Bulk samples of these suspect materials were collected and submitted to an accredited Lab for analysis. The laboratory results were examined and interpreted by a licensed Ohio Asbestos Hazard Evaluation Specialist (AHES). All conclusions presented in this report were derived from the information available and applicable laboratory results as reviewed and interpreted by the licensed Ohio Asbestos Hazard Evaluation Specialist. This asbestos survey has been conducted and executed in a manner customary in principle and practice in the field of environmental science and engineering. Individual AHES certification can be found in **Appendix C**.

The laboratory results were examined and interpreted by a licensed Ohio Asbestos Hazard Evaluation Specialist. Building materials are classified as asbestos containing material when a certified lab analyzes the material to contain greater than 1% asbestos. When a material sample contains less than 10% asbestos, the point counting method shall be used to determine the actual amount of asbestos contained in the material.

There were no (0) samples analyzed by PLM Visual Estimation that had a reported concentration of asbestos fibers greater than 1%.

3.0 Signature of Environmental Professionals and Certification Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* defined in 312.10 of 40 CFR 312 and…

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all of the appropriate inquires in conformance with the standards and practices set forth in 40 CFR Part 312.

October 28, 2022

Sheldon McLeod
State of Ohio Asbestos Hazard Evaluation Specialist #ES35078
GPD Group

Date

Appendix A

PLAN

⊗ = PROPOSED VERTICAL CLEARANCE POINT
⊠ = EXISTING VERTICAL CLEARANCE POINT

℄ PROFILE

* DATA FOR EXISTING BORINGS 1, 4, AND 8 OBTAINED FROM ORIGINAL DRAWING SHEET 34 OF 36, CONTRACT NO. C-10 DATED 2-17-53.

BENCH MARK

STA. 728+99.44, 63.37' LT.
FENO SURVEY MARK WITH 2" BRONZE DISK
ELEVATION = 1163.40 (NGVD 29)

BORING NO.	APPROXIMATE TOP OF ROCK ELEVATION
1 *	1143
4 *	1128
8 *	1135
B-1	1140
B-2	1135

NOTES:

① EXISTING CATCH BASINS TO BE RECONSTRUCTED TO GRADE. REFER TO SHEETS 164 & 165 OF 219 FOR DETAILS.

② PROPOSED CATCH BASIN TO REPLACE EXISTING AND TIE IN TO EXISTING 12" CMP. REFER TO SHEETS 164 & 165 OF 219 FOR DETAILS.

③ ALL UTILITY POLES ARE TO REMAIN. (DO NOT DISTURB.)

④ FOR TEMPORARY FENCE DETAILS REFER TO SHEETS 164 & 165 OF 219.

⑤ EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

EXISTING STRUCTURE

TYPE: 5-SPAN CONTINUOUS COMPOSITE STEEL BEAMS W/REINFORCED CONCRETE PIERS AND ABUTMENTS
SPANS: 35'-4", 64'-4", 43'-2", 64'-4", 35'-4" C/C BRGS.
ROADWAY: 31'-4" TOE/TOE BARRIERS
SKEW: 40°15'00" (R.F.)
DESIGN LOADING: HS20-44 (CASE II) AND ALTERNATE MILITARY LOADING W/O FUTURE WEARING SURFACE
APPROACH SLABS: O.T.C. STANDARD (15'-0" LONG, 10" THICK)
CROWN: 3/16"/FT.
ALIGNMENT: TANGENT
WEARING SURFACE: MONOLITHIC CONCRETE
STRUCTURE FILE NUMBER: 6729789

REHABILITATED STRUCTURE

TYPE: 5-SPAN CONTINUOUS COMPOSITE STEEL BEAMS SUPPORTED BY 2-SPAN CONTINUOUS STEEL CARRYING GIRDERS AND REINFORCED CONCRETE SUBSTRUCTURES
SPANS: 85'-11", 85'-11" C/C BRGS. (CARRYING GIRDERS) 35'-4", 64'-4", 43'-2", 64'-4", 35'-4" C/C BRGS. (BEAMS)
ROADWAY: 31'-4" TOE/TOE BARRIERS
SKEW: 40°15'00" (R.F.)
DESIGN LOADING: HS20-44 (CASE II) AND ALTERNATE MILITARY LOADING
APPROACH SLABS: O.T.C. STANDARD (15'-0" LONG, 10" THICK)
CROWN: 3/16"/FT.
ALIGNMENT: TANGENT
WEARING SURFACE: MONOLITHIC CONCRETE
AVERAGE DAILY TRAFFIC: 4,150 (1996) 5,580 (2016)
AVERAGE DAILY TRUCK TRAFFIC: 208 (1996) 446 (2016)
COORDINATES: LAT.: N41°14'33" LONG.: W81°07'42"

NO.	REVISIONS	BY	DATE
1	REVISED PROFILE GRADE ELEVS. & VERTICAL CLEARANCES AND ADDED GRAPHIC GRADE LIMITS.	ms	3-96

OHIO TURNPIKE COMMISSION

SITE PLAN
STATE ROUTE 88 OVER
OHIO TURNPIKE (MP 199.5)

ms consultants, inc.
YOUNGSTOWN, OHIO

DESIGNED: G.K.	CHECKED: W.H.	DATE: 10-24-95
DRAWN: R.A.M.	IN CHARGE: D.F.S.	SCALE: N.T.S.

Appendix B

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order: 162223292
Customer ID: GPDA78
Customer PO: 2022348.01
Project ID:

Attention: Sheldon McLeod
GPD Group
520 South Main Street
Suite 2531
Akron, OH 44311
Project: OTIC Bridge MP 199-202-203

Phone: (330) 618-7475
Fax: (330) 572-2102
Received Date: 10/05/2022 11:25 AM
Analysis Date: 10/11/2022
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
199TPost01 *162223292-0001*	Top-Cream Post Sealant - Cream Post Sealant	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199TPost02 *162223292-0002*	Top-Cream Post Sealant - Cream Post Sealant	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199TFlange01 *162223292-0003*	Top Flange - Black/Gray Rubber Mat.	Black/Clear Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
199TFlange02 *162223292-0004*	Top Flange - Black/Gray Rubber Mat.	Black/Clear Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
199TIns01 *162223292-0005*	Top Deck - Gray Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199TIns02 *162223292-0006*	Top Deck - Gray Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199EPatch01-Concrete *162223292-0007*	Under Deck - Cream Concrete w/Tape	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
199EPatch01-Tape *162223292-0007A*	Under Deck - Cream Concrete w/Tape	Gray Fibrous Homogeneous	40% Synthetic	60% Non-fibrous (Other)	None Detected
199Paint01 *162223292-0008*	Beam under Bridge - Green Paint	Brown/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199Paint02 *162223292-0009*	Beam under Bridge - Green Paint	Brown/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199Deck01 *162223292-0010*	Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
199Deck02 *162223292-0011*	Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
199EAbut01 *162223292-0012*	Abutment - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
199EAbut02 *162223292-0013*	Abutment - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
199WDeck01 *162223292-0014*	Westbound Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
199WAbut01 *162223292-0015*	Westbound Abutment - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected

Initial report from: 10/11/2022 13:06:36

EMSL Analytical, Inc.
6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162223292
Customer ID:	GPDA78
Customer PO:	2022348.01
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
199WPaint01 *162223292-0016*	Westbound Beam - Green Paint	Red/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199WExpFlange01 *162223292-0017*	Westbound Flange - Black Rubber Mat.	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199WExpFlange02 *162223292-0018*	Westbound Flange - Black Rubber Mat.	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199WSealant01 *162223292-0019*	Westbound Deck - Soft Gray Sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199WSealant02 *162223292-0020*	Westbound Deck - Soft Gray Sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199EIns01 *162223292-0021*	Eastbound under Deck - White Insulation	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199EIns02 *162223292-0022*	Eastbound under Deck - White Insulation	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028TConcrete01 *162223292-0023*	Top Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2028Topcoat01 *162223292-0024*	Top Deck - Gray Wire Cover Mat.	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
2028Topcoat02 *162223292-0025*	Top Deck - Gray Wire Cover Mat.	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
2028Deck01 *162223292-0026*	Under Deck - Gray Concrete	Brown/Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2028Deck02 *162223292-0027*	Under Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2028Paint01 *162223292-0028*	Under Deck - Green Paint	Brown/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028Paint02 *162223292-0029*	Under Deck - Green Paint	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2025Flange01 *162223292-0030*	Under Deck - Brown Flange	Brown/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2025Flange02 *162223292-0031*	Under Deck - Brown Flange	Brown/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028BotIns01 *162223292-0032*	Under Deck - White Ins.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028BotIns02 *162223292-0033*	Under Deck - White Ins.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028BTape01 *162223292-0034*	Under Deck - Gray Tape	Silver Fibrous Homogeneous	40% Synthetic	60% Non-fibrous (Other)	None Detected

Initial report from: 10/11/2022 13:06:36

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EMSL Order: 162223292
Customer ID: GPDA78
Customer PO: 2022348.01
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2028BTape02 *162223292-0035*	Under Deck - Gray Tape	Tan/Silver Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
2028WTIns01 *162223292-0036*	Westbound Deck - Gray Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028WTIns02 *162223292-0037*	Westbound Deck - Gray Insulation	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2028WTExp01 *162223292-0038*	Westbound Deck - Black Exp. Joint	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028WTExp02 *162223292-0039*	Westbound Deck - Black Exp. Joint	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2028WTCover01 *162223292-0040*	Westbound Wall - Gray Wire Covering	Gray Non-Fibrous Homogeneous	5% Glass	10% Quartz 85% Non-fibrous (Other)	None Detected
2028WTCover02-Wire Cover *162223292-0041*	Westbound Wall - Gray Wire Covering	Gray Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
2028WTCover02-Concrete *162223292-0041A*	Westbound Wall - Gray Wire Covering	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
2037EDeck01 *162223292-0042*	Eastbound Deck - Gray Concrete	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2037EDeck02 *162223292-0043*	Eastbound Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
2037BTape01 *162223292-0044*	Under Deck - Gray Tape	Silver Fibrous Homogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
2037BTape02 *162223292-0045*	Under Deck - Gray Tape	Gray/Silver Fibrous Homogeneous	95% Synthetic	5% Non-fibrous (Other)	None Detected
2037BDeck01 *162223292-0046*	Under Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2037BDeck02 *162223292-0047*	Under Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2037WTSExp01 *162223292-0048*	Top Deck - Westbound - Soft Black Exp. Joint	Brown/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
2037WTSExp02 *162223292-0049*	Top Deck - Westbound - Soft Black Exp. Joint	Brown/Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
2037WTExp01 *162223292-0050*	Westbound Top Deck - Hard Black Exp. Joint	Black/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2037WTExp02 *162223292-0051*	Westbound Top Deck - Hard Black Exp. Joint	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2037WDeck01 *162223292-0052*	Westbound Top Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2037WDeck02 *162223292-0053*	Westbound Top Deck - Gray Concrete	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
2037WIns01 *162223292-0054*	Westbound Top Deck - Gray Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2037WIns02 *162223292-0055*	Westbound Top Deck - Gray Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Alison Pacey (31)
Maggie Hayden (9)
Ross Matlock (17)

Marissa Newkirk
Asbestos Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from: 10/11/2022 13:06:36

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

PHONE
EMAIL

Customer Information

Customer ID:
Company Name: GPD Group
Contact Name: Sheldon McLeod
Street Address: 520 S. Main St., suite 2531
City, State, Zip: Akron, OH 44311
Country: US
Phone: 330-572-2284
Email(s) for Report: smcleod@gpdgroup.com

Billing Information

Billing ID:
Company Name: GPD Group
Billing Contact: ~~520 S. Main St., suite 2531~~ Sheldon McLeod
Street Address: 520 S. Main St., 2531
City, State, Zip: Akron, OH 44311
Country: US
Phone: 330-572-2284
Email(s) for Invoice: smcleod@gpdgroup.com

Project Information

Project Name/No: OT1C-Bridge mp 199-202-203
Purchase Order: 2022348.01
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: OH
State of Connecticut (CT) must select project location: Commercial (Taxable) Residential (Non-Taxable)
Sampled By Name: Sheldon McLeod
Sampled By Signature: [signature]
Date Sampled: 9/28-29/22
No. of Samples in Shipment: 55

Turn-Around-Time (TAT)

3 Hour | 6 Hour | 24 Hour | 32 Hour | 48 Hour | 72 Hour | 96 Hour | 1 Week | 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am

Test Selection

PLM - Bulk (reporting limit)

- [x] PLM EPA 600/R-93/116 (<1%)
- PLM EPA NOB (<1%)
- POINT COUNT
  - 400 (<0.25%) 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - 400 (<0.25%) 1,000 (<0.1%)
- NIOSH 9002 (<1%)
- NYS 198.1 (Friable - NY)
- NYS 198.6 NOB (Non-Friable - NY)
- NYS 198.8 (Vermiculite SM-V)

TEM - Bulk

- TEM EPA NOB
- NYS NOB 198.4 (Non-Friable - NY)
- TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Tests (please specify)

Positive Stop - Clearly Identified Homogeneous Areas (HA)

Sample Number	HA Number	Sample Location	Material Description
199TPost01		Top - cream post sealant	Cream post sealant
199TPost02		" " " "	" " "
199TFlange01		Top Flange	Black/gray rubber mat.
199TFlange02		" "	" " " "
199Tins01		Top Deck	gray insulation
199Tins02		" "	" "
199EPatch01		under Deck	cream concrete w/ tape
199Paint01		Beam under bridge	green paint
199Paint02		" " "	" "
199Deck01		Deck	gray concrete

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

For results between 1% and 10%, please point count.

Method of Shipment: Fed ex Ground		Sample Condition Upon Receipt:	
Relinquished by: GPD - Sheldon McLeod	Date/Time: 10/3/22/4:00	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - Asbestos Bulk R7 9/14/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
6340 Castleplace Dr.
Indianapolis, IN 46250
PHONE (317) 803-2997
EMAIL: indianapolislab@emsl.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	HA Number	Sample Location	Material Description
199DeckO2		Deck	gray concrete
199EAbut01		Abutment	gray concrete
199EAbut02		Abutment	" "
199WDeck01		westbound Deck	gray concrete
199WAbut01		westbound Abutment	gray concrete
199Wpaint01		westbound beam	green paint
199Wexpflange01		westbound flange	black rubber mat.
199Wexpflange02		" "	" " "
199Wsealant01		westbound deck	soft gray sealant
199wsealant02		" "	" " "
199Eins01		Eastbound under deck	white insulation
199Eins02		" "	" "
2028Tconcrete01		Top Deck	gray concrete
2028Topcoat01		Top Deck	gray wire cover mat.
2028Topcoat02		Top Deck	" " " "
2028Deck01		under Deck	gray concrete
2028Deck02		under Deck	" "
2028Paint01		under Deck	green paint
2028Paint02		under Deck	" "
2028Flange01		under Deck	brown flange
2028Flange02		under Deck	" "
2028Botins01		under Deck	white ins.
2028Botins02		under Deck	" "
2028BTape01		under Deck	gray tape
2028BTape02		under Deck	" "

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Relinquished by:	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

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Sample Number	HA Number	Sample Location	Material Description
2028 WTins01		westbound Deck	gray insulation
2028 WTins02		" " "	" "
2028 WTexp01		westbound Deck	black exp. joint
2028 WTexp02		" "	" " "
2028 WTcover01		westbound wall	gray wire covering
2028 WTcover02		" "	" " "
2037 EDeck01		East bound Deck	gray concrete
2037 EDeck02		" "	" "
2037 BTape01		under Deck	gray tape
2037 BTape02		" "	" "
2037 BDeck01		under Deck	gray concrete
2037 BDeck02		" "	" "
2037 WTsexp01		Top Deck - westbound	soft black exp. joint
2037 WTsexp02		" " "	" " " "
2037 WTexp01		westbound Top Deck	hard black exp. joint
2037 WTexp02		" " "	" " " "
2037 WDeck01		westbound Top Deck	gray concrete
2037 WDeck02		" " "	" "
2037 Wins01		westbound Top Deck	gray insulation
2037 Wins02		westbound Top Deck	" "

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

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Appendix C

Photograph 1. View of Top Cream Post Sealant

Photograph 2. View of Top Flange Black Rubber Material

Photograph 3. View of Top Deck Gray Insulation

Photograph 4. View of Beam Green Paint

Photograph 5. View of Gray Deck Concrete

Photograph 6. View of White Insulation

Appendix D

INSPECTOR IDENTIFICATION

I declare that we have completed this limited asbestos survey for the Ohio Turnpike and Infrastructure Commission (OTIC) for the MP 199.5 bridge carrying State Route (SR) 88 over the Ohio Turnpike mainline in Portage County, Ohio in accordance with current State and Federal regulations. Bulk sampling of suspect building materials was conducted as an integral part of the survey. Samples were analyzed by EMSL Analytical, Inc., an accredited NVLAP.

The following individual conducted the survey and developed the Asbestos Survey Report. Included herein is the individual's State of Ohio Certifications.

Sheldon McLeod
GPD Group
520 S. Main Street, Suite 2531
Akron, Ohio 44311

Ohio Asbestos Hazard Evaluation Specialist
License # ES35078
Expires: May 12, 2023