OHIO DEPARTMENT OF TRANSPORTATION

Asbestos Inspection Reporting Form

Date	01-09-2025
County	Mahoning
Route	Interstate Route 680 Bridge over Mill Creek
Section	Interstate Route 680 over Mill Creek in Youngstown, Mahoning County, Ohio
PID	113321
Requesting ODOT District Office	District Four

Regulating OEPA District Office and Address

OEPA/DAPC
Northeast District Office
2110 E. Aurora Road
Twinsburg, Ohio 44087

Date of the Asbestos Inspection	12-17-2024

Name and Address of the company conducting the asbestos inspection

ms consultants, inc.

333 E. Federal Street

Youngstown, Ohio 44530

Brian K. Fischer, ES 3301

Name, signature, and asbestos hazard evaluation number of the person writing the report

Description sampling locations and how each location was determined (use additional pages if needed)

ms consultants, inc., performed a pre-demolition/renovation asbestos survey of the MAH-Interstate Route 680 bridge carrying I-680 over Price Road and Mill Creek in Youngstown, Mahoning County, Ohio (Structure Number 5006872). The bridge structure is comprised of reinforced concrete deck on steel beams. The existing bridge was constructed in 1963 and underwent major reconstruction in 1975.

The bridge structure inspection was conducted on December 17, 2024. The asbestos survey was conducted as a preliminary task to the future renovation of the bridge structure. The purpose of the asbestos survey was to determine if any suspect friable building materials used in the construction of this structure, contain asbestos.

ASBESTOS SURVEY METHODOLOGY

The concrete bridge structure, located at Interstate Route 680 in Youngstown, Ohio, was visually inspected for the presence of suspect asbestos-containing materials. Subsequent sampling of the suspect materials was conducted to verify the presence of asbestos in each suspect material. Bulk asbestos samples were collected, placed into Ziploc bags, and uniquely numbered for transportation under strict chain-of-custody protocols to EMSL Analytical, Inc., in Westmont, New Jersey for analysis. EMSL holds NVLAP Accreditation No. 101048-0. Samples are tested using EPA method 600/R-93/116 (PLM)

A total of four (4) representative samples were collected during the survey of the structure. The suspect materials observed on the structure designated for renovation included expansion board at the wing walls and caulking at the parapet wall joints of the bridge structure.

SUMMARY OF RESULTS

The U.S. Environmental Protection Agency (EPA), National Emissions Standards for Asbestos (NESHAP) Standard 40 CFR 61, Section 141, requires all regulated asbestos containing material (RACM) containing less than ten percent asbestos either (1) be assumed greater than one percent and treated as RACM material, or (2) have the asbestos content verified /quantified by point counting. The final result that is obtained from point counting is the result that is to be reported.

A total of four (4) samples of suspect building materials (see photos) were submitted for laboratory analysis to confirm the presence of asbestos. The four (4) samples were taken from the wing walls and parapet wall joints of the bridge structure. There were no other accessible, friable suspect building materials on the bridge.

CONCLUSIONS

Based on the results of the asbestos survey and bulk sampling analysis conducted on December 23, 2024; the expansion board at the wing walls of the bridge structure were reported to contain 1.3% to 1.6% chrysotile asbestos. The caulking at the parapet wall joints were reported as non-asbestos containing.

RECOMMENDATIONS

ms consultants, inc recommends that the asbestos containing materials be removed prior to demolition/renovation by a licensed Ohio Asbestos Abatement Contractor. In addition, any cleaners, paints, and wood stains, etc., shall be removed and disposed of in accordance with all applicable, local, state and federal regulations before any demolition/renovation activities begin.

Name, signature, and asbestos hazard evaluation number of each person who selected samples from the structure (use additional pages if needed)

Name	Signature	Asbestos Evaluation #
Brian K. Fischer		ES 3301

SUPPORTING INFORMATION

Laboratory Analytical Report

Blueprint, diagram or written description with the following:

- Type, location and amount of confirmed regulated asbestos containing material
- Location and collection date of each bulk sample
- Location and amounts of suspected asbestos containing material, both friable and non-friable

NOTE: The OEPA Notification of Demolition and Renovation Form with the appropriate Sections I, II, III, IV, VI and VII must be completed by the licensed asbestos hazard evaluation specialist and included with the report submission to ODOT prior to submission to OEPA or the local air authority with jurisdiction.

OEPA Notification of Demolition and Renovation Form

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, 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.

ATTACHMENT

PHOTOGRAPHS

Taken facing east, looking at the Interstate Route 680 bridge structure over Mill Creek.

Taken facing east, looking at the underside of the Interstate Route 680 bridge structure spanning Tod Avenue and Mill Creek.

Taken facing northeast, looking at the Interstate Route 680 bridge structure piers spanning Mill Creek.

Taken facing south, looking at asbestos containing expansion board at the Wing Wall Joints of the Interstate Route 680 bridge structure spanning Mill Creek.

Taken facing west, looking at Parapet Wall Joint Caulking sampling location on the Interstate Route 680 bridge structure over Mill Creek.

Taken facing east, looking at the Interstate Route 680 bridge structure over Mill Creek.

Taken facing east, looking at the underside of the Interstate Route 680 bridge structure spanning Tod Avenue and Mill Creek.

Taken facing northeast, looking at the Interstate Route 680 bridge structure piers spanning Mill Creek.

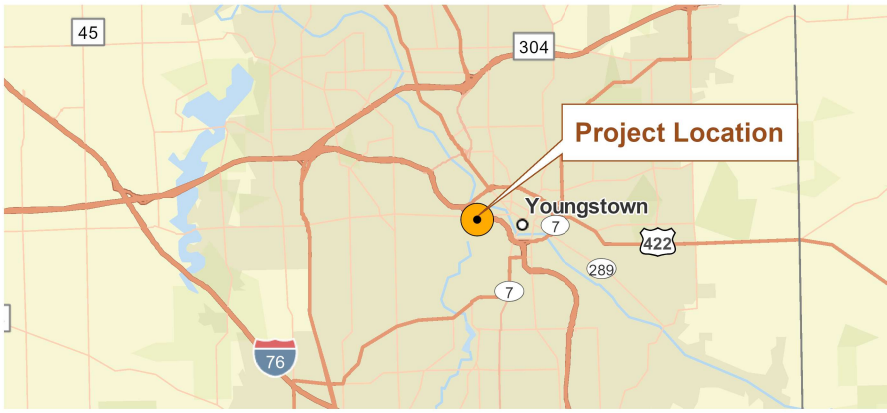
Taken facing south, looking at asbestos containing expansion board at the Wing Wall Joints of the Interstate Route 680 bridge structure spanning Mill Creek.

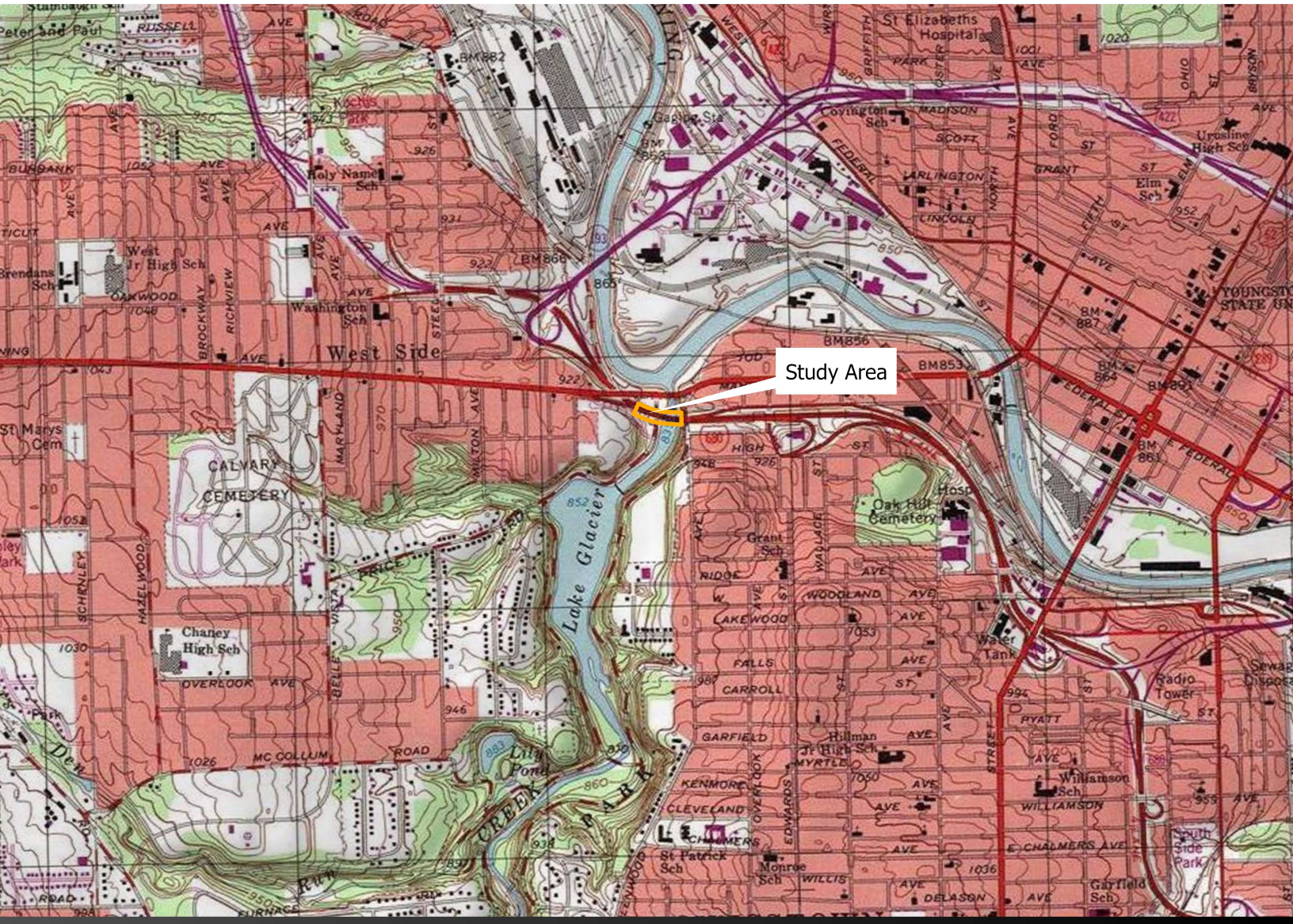
Taken facing west, looking at Parapet Wall Joint Caulking sampling location on the Interstate Route 680 bridge structure over Mill Creek.

ATTACHMENT

SITE LOCATION MAPPING

MAH- I-680 Bridge Rehab
PID 113321





0 2,500 5,000
Feet

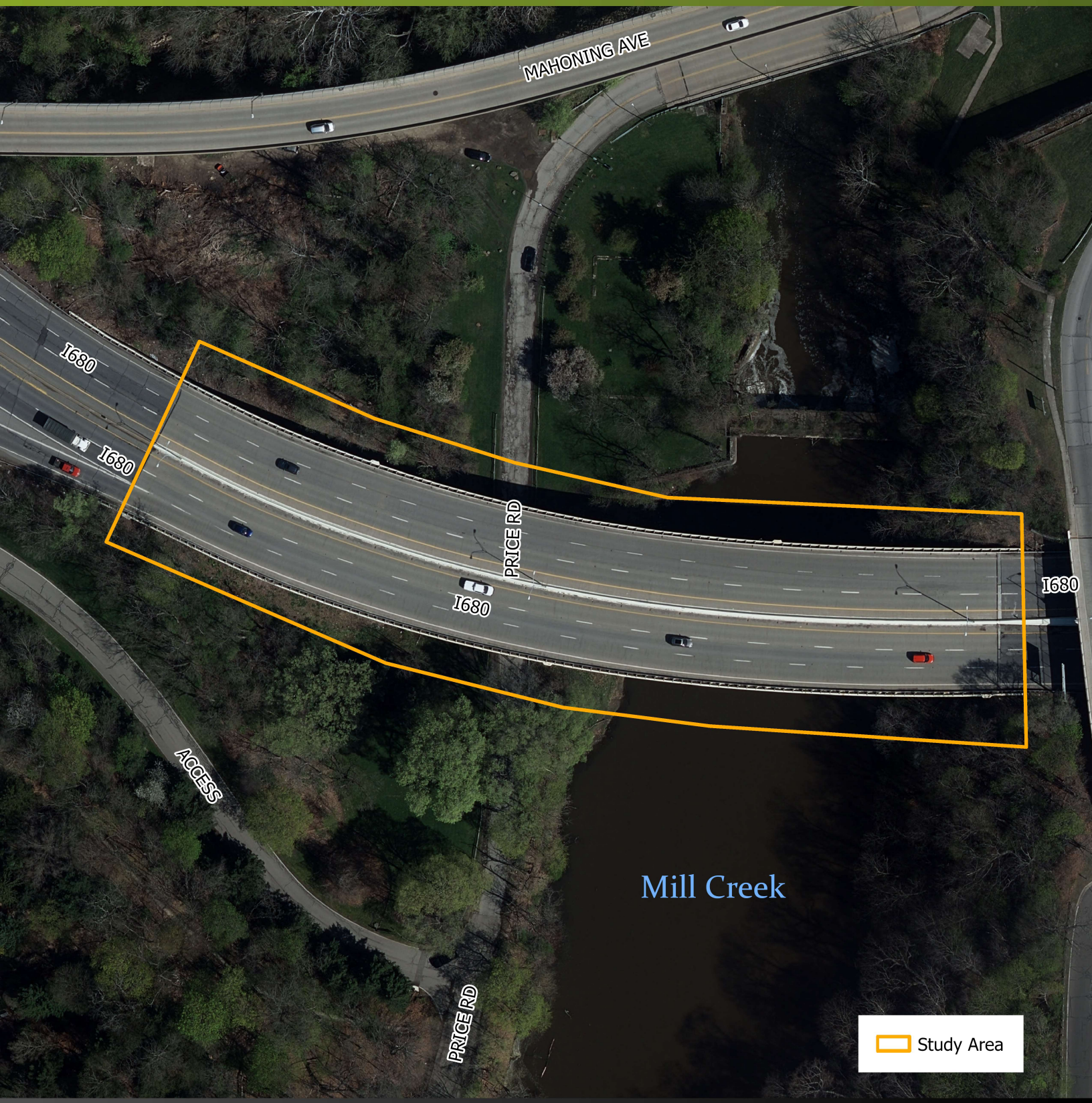
Figure 1
Project Location Map

Source: USGS, Youngstown Quadrangle

ms consultants, inc.
engineers, architects, planners

www.msconsultants.com

MAH - I-680 Bridge Rehab
PID 113321



0 100 200
Feet

Figure 2
Aerial Photo Map

ms consultants, inc.
engineers, architects, planners

www.msconsultants.com

ATTACHMENT

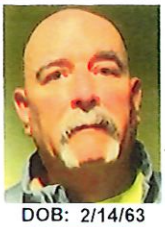
INSPECTOR ACCREDITATION

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Brian K
Fischer

Ohio Environmental Protection Agency



117 Gleneagle
Cortland OH 44410

DOB: 2/14/63

Certification Number	Expiration Date
ES3301	5/17/25

Card not Valid if Altered

ATTACHMENT

SAMPLE RESULTS

04-279

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: ms consultants, inc.	EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 333 East Federal Street	
City: Youngstown State/Province: OH	Zip/Postal Code: Country:
Report To (Name): Brian K. Fischer	Telephone #:
Email Address: BFischer@msconsultants.com	Fax #: Purchase Order:
Project Name/Number: MAH 680/60-06871-00-01-23-0102	Please Provide Results: ☐ Fax ☐ Email ☐ Mail
U.S. State Samples Taken: Ohio	Connecticut Samples: ☐ Commercial ☐ Residential

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☒ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

RECEIVED EMSL ANALYTICAL 2024 DEC 20 AM 11:50

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Filter Pore Size (Air Samples):** ☐ **0.8µm** ☐ **0.45µm**

Samplers Name: Brian K. Fischer | **Samplers Signature:** Brian K Fischer

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
MAH 680-04.81-1	Wing Wall Joint Expansion Board	1/50LF	12/17/24-1:15PM
MAH 680-04.81-2	Wing Wall Joint Expansion Board	1/50LF	12/17/24-1:15PM
MAH 680-04.81-3	Parapet Wall Joint Coulking	2/450LF	12/17/24-1:30PM
MAH 680-04.81-4	Parapet Wall Joint Coulking	2/450LF	12/17/24-1:30PM

Client Sample # (s): - **Total # of Samples:** 4

Relinquished (Client): Brian Fischer **Date:** 12/18/24 ~~11:00 PM~~ **Time:** 12:00 PM

Received (Lab): Angie O'Neill UPS **Date:** 12/20/24 **Time:** 950A

Comments/Special Instructions:

EMSL ANALYTICAL, INC.

Attention: Brian K. Fischer
MS Consultants Inc.
333 East Federal St.
Youngstown, OH 44503

Samples analyzed by: EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Tel (800) 220-3675
CinnAsblab@EMSL.com

NVLAP Lab Code: 101048-0
AIHA-LAP, LLC-IHPAT Lab: 100194
NYS ELAP: 10872
NJ DEP: 3036
PA ID: 68-00367

Sample Date: 12/18/2024
Submitted Date: 12/20/2024
Analysis Date: 12/23/2024
Report Date: 1/7/2025

Project: MAH 680_60-06871-00-01-13-0202

EMSL ID: 04-279

Summary Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Sub E App E supplemented with EPA 600/R-93/116

This is page one of the analytical report; data found on subsequent pages.

Samples in this report were submitted to EMSL Analytical Inc. for Asbestos Analysis of Bulk materials via EPA methods and may contain analytical results by PLM friable, PLM 400 Point count or gravimetric reduction of samples by PLM NOB, TEM NOB,PLM NOB 400 PTCT.

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. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Measurement of uncertainty is available upon request. NOB = Non-friable Organically Bound; N/A = Not Applicable; PTCT = Point Count.

Laboratory Comments:

Samantha Rundstrom, Laboratory Manager
or other approved Signatory

Project: MAH 680_60-06871-00-01-13-0202 **EMSL Order ID:** 04-279

Summary Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Sub E App E supplemented with EPA 600/R-93/116

Sample	Description	Type of Analysis	Color/Fibrous/ Homogeneity	Non-Asbestos Fibers	%	% Non-Fibrous	Asbestos Type	Asbestos Percentage	Final Asbestos %	Comment
MAH 680-04-81-1	Wing Wall Joint Expansion Board	PLM NOB	Black			98.7	**Chrysotile**	**20**	**1.30**	
			Non-Fibrous							
			Homogeneous							
			--	--	--		**Total Asbestos**	--	**1.3**	
MAH 680-04-81-2	Wing Wall Joint Expansion Board	PLM NOB	Black			98.4	**Chrysotile**	**20**	**1.57**	
			Non-Fibrous							
			Homogeneous							
			--	--	--		**Total Asbestos**	--	**1.6**	
MAH 680-04-81-3	Parapet Wall Joint Caulking	PLM NOB	Gray			100.0	**None Detected**			
			Non-Fibrous							
			Homogeneous							
			--	--	--		**Total Asbestos**	--	--	
MAH 680-04-81-4	Parapet Wall Joint Caulking	PLM NOB	Gray			100.0	**None Detected**			
			Non-Fibrous							
			Homogeneous							
			--	--	--		**Total Asbestos**	--	--	
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
							Inconclusive			
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		

ATTACHMENT

BULK SAMPLING LOGS, SAMPLING LOCATION MAPS, AND HOMOGENEOUS AREAS / FUNCTIONAL SPACE

HOMOGENEOUS AREA/BULK SAMPLING SUMMARY

Bldg. Assessed/Address: Interstate Route 680 Bridge over Mill Creek
Date of Original Bldg: 1963

Homogeneous Area Number	Functional Space	Suspect Material	QTY	Unit	T, S, M	F, NF	S, A	Sample Number	Date Collected
1	wing walls	black expansion board	50	LF	M	NF	S	MAH 680-04-82-1 to MAH 680-04-82-2	17-Dec.-24
2	parapet wall joints	gray caulking	450	LF	M	NF	S	MAH 680-04-82-3 to MAH 680-04-82-4	17-Dec.-24

Material Type: (T) Thermal Systems Insulation (S) Surfacing (M) Miscellaneous
Friability: (F) Friable (NF) Non-Friable
Sampled: (S) Sampled (A) Assumed

ROOM/FUNCTIONAL SPACE ASSESSMENT
(NESHAP)

General Information:

Date: 17-Dec-24 **Type of Inspection:** X **Initial** _____ **Reinspection**

Bldg Assessed/Address: Interstate Route 680 Bridge over Mill Creek

Date Original Bldg: _____

Functional Space (FS): Wing Walls

Date and Description of any additions or renovations for this room/functional space:

Material Information:

Homogeneous Area #: 1 **Sample Numbers:** MAH 680-04-82-1 to MAH 680-04-82-2

Description: Black Expansion Board

Type of Material: _____ Surfacing _____ TSI x Miscellaneous

Material: _____ Friable x Non-Friable

Estimated Quantity: _____ Square Ft. x Lineal Ft.

Material Assessment:

Type of Damage	Yes	No	Comments (Severity, Cause)
Powder, Dust, or Debris (e.g., music room, motor/engine, or ducts vibrating)		x	
Location (e.g., material located in air supply or return plenum)		X	
Deterioration (e.g., crumbled, blistered, or loss of adhesion)	X		Crumbling, gaps in material continuity
Physical Damage (e.g., scrape or gouge)	X		Gouge
Water Damage (e.g., water stains)		x	
Air Erosion (e.g., elevator shaft, fan, or ventilator air stream)		X	
Vibration (e.g., music room, motor/engine, or ducts vibrating)		X	
Other			

ROOM/FUNCTIONAL SPACE ASSESSMENT
(NESHAP)

General Information:

Date: 17-Dec-24 **Type of Inspection:** X **Initial** _____ **Reinspection**

Bldg Assessed/Address: Interstate Route 680 Bridge over Mill Creek

Date Original Bldg: 1963

Functional Space (FS): Parapet Wall Joints

Date and Description of any additions or renovations for this room/functional space:

Material Information:

Homogeneous Area #: 2 **Sample Numbers:** MAH 680-04-82-3 to MAH 680-04-82-4

Description: Gray Caulking

Type of Material: _____ Surfacing _____ TSI X Miscellaneous

Material: _____ Friable x Non-Friable

Estimated Quantity: _____ Square Ft. 450 Lineal Ft.

Material Assessment:

Type of Damage	Yes	No	Comments (Severity, Cause)
Powder, Dust, or Debris (e.g., music room, motor/engine, or ducts vibrating)		X	
Location (e.g., material located in air supply or return plenum)		X	
Deterioration (e.g., crumbled, blistered, or loss of adhesion)	X		Crumbling, loss of adhesion, partially removed
Physical Damage (e.g., scrape or gouge)	X		Gouges
Water Damage (e.g., water stains)		x	
Air Erosion (e.g., elevator shaft, fan, or ventilator air stream)		X	
Vibration (e.g., music room, motor/engine, or ducts vibrating)		X	
Other			