

**PRE-REHABILITATION
ASBESTOS-CONTAINING MATERIALS
INSPECTION REPORT**

OF THE:

**New York State Thruway I-87 Bridge over the Mahwah River
Mile Post (MP) 29.41
Bridge Identification Number (BIN) 5514129
VILLAGE OF SUFFERN, ROCKLAND COUNTY NEW YORK
NYSTA DESIGN CONTRACT D214866**

Prepared By:

HUNT ENGINEERS | ARCHITECTS | SURVEYORS

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Prepared For:

JMT of New York Inc.

19 British American Boulevard

Latham, NY 12110

&

New York State Thruway Authority

200 Southern Boulevard

Albany, NY 12209

Conditions as of June 2024

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY.....	1-1
2.0	BACKGROUND.....	2-1
3.0	SAMPLING METHODOLOGY.....	3-1
3.1	ASBESTOS SURVEY REQUIREMENT.....	3-1
3.2	LEAD-BASED PAINT & PCBs.....	3-2
4.0	ANALYTICAL PROTOCOL.....	4-1
5.0	RESULTS.....	5-1
5.1	ASBESTOS.....	5-1
5.2	LEAD-BASED PAINT.....	5-2
5.3	PCBs.....	5-2
6.0	CONCLUSIONS AND RECOMMENDATIONS.....	6-3
6.1	ASBESTOS.....	6-3
6.2	LEAD-BASED PAINT AND MATERIALS.....	6-3
6.3	PCBs.....	6-4
7.0	LIMITATIONS.....	7-1

FIGURES

FIGURE 4.1 ASBESTOS BULK SAMPLING AND ANALYTICAL FLOWCHART

APPENDICES

APPENDIX A	ASBESTOS ASSESSMENT SPREADSHEET
APPENDIX B	ASBESTOS ANALYTICAL LABORATORY RESULTS
APPENDIX C	SAMPLE LOCATION MAPS AND PHOTOGRAPHS
APPENDIX D	CERTIFICATIONS

1.0 EXECUTIVE SUMMARY

The New York State Thruway I-87 bridge over the Mahwah River at Mile Post (MP) 29.41 (BIN:5514129), located in the Village of Suffern, New York, was surveyed to identify Asbestos Containing Materials (ACM). The survey was performed on all areas on the bridge expected to be disturbed during bridge rehabilitation. Hazardous material testing did not include lead and polychlorinated biphenyls (PCBs) per NYSTA policy. The property consists of the bridge and deck structure.

Based on laboratory analysis, no ACM was identified in any of the seven (7) Homogeneous Area (HA) materials sampled during the inspection and testing activities performed on June 4, 2024

Given the date of the structure (reportedly built in the 1950s) and known use of lead paint, lead paint samples were not collected per NYSDOT standards, and all painted surfaces shall be assumed to be lead based.

HUNT understands it is not NYSTA policy to sample for polychlorinated biphenyls (PCBs) however, future sampling may be required to facilitate proper disposal. Waste disposal facilities often require all waste be sampled prior to disposal. As such, it is recommended sealants/caulks be sampled for PCBs.

The Report assessed the presence of accessible and/or exposed suspect ACMs. Although due diligence was given during the assessment, suspect ACMs may exist behind or beneath inaccessible spaces and inaccessible portions of the bridge. See the following report for a detailed description of the sampling methods and results.

2.0 BACKGROUND

HUNT-Engineers, Architects, Land Surveyors & Landscape Architect, D.P.C. (HUNT) was contracted by JMT of New York Inc. (JMT) and the New York State Thruway Authority (NYSTA) to perform a Limited Asbestos and Hazardous Materials Survey Report for the planned bridge rehabilitation located at MP 29.41 along Interstate 87 (I-87) over the Mahwah River located in the Village of Suffern, Rockland County, New York.

The field survey was performed by HUNT representatives, Christopher Bablin and Kerry Blackwood, on June 4, 2024. HUNT located and accessed potentially disturbed material locations in association with the planned project. This Report included an assessment for the identification of asbestos-containing materials (ACMs) and to recommend removal measures, if needed, prior to demolition, reconstruction, and rehabilitation activities.

This Report identifies any materials that were determined to contain ACMs from the sampling and testing methods performed. This Report also describes the work performed and the analytical results obtained. The field surveys were limited to the materials that were exposed and accessible. HUNT maintained all standard safety policies.

3.0 SAMPLING METHODOLOGY

3.1 ASBESTOS SURVEY REQUIREMENT

New York State Department of Labor Industrial Code Rule 56 (ICR 56), requires an Asbestos Survey to be completed by a licensed asbestos contractor, using inspectors certified in compliance with Section 56-3.2(d), to determine whether or not, the building or structure, or portion(s) thereof to be demolished, renovated, remodeled, or repaired, contains asbestos-containing material (ACM), presumed ACM (PACM), or suspect miscellaneous ACM (SACM).

The Asbestos Survey includes a thorough inspection for and identification of all PACM, SACM, or known asbestos material throughout the project areas, or portion thereof to be demolished, renovated, remodeled, or repaired. The required inspection must be performed by a certified asbestos inspector and includes identification of materials by the following methods:

- (1) Review of building/structure plans and records, if available, for references to asbestos, ACM, PACM, or suspect miscellaneous SACM used in construction, renovation, or repair; and
- (2) Visual inspection for PACM and suspect miscellaneous SACM throughout the building/structure or portion thereof to be demolished, renovated, remodeled, or repaired. All PACM and miscellaneous SACM observed is assumed to be ACM and must be treated and handled as ACM, unless bulk sampling is conducted as per standard USEPA and Occupational Safety and Health Administration (OSHA) accepted methods (including multi-layered systems sampling protocols); the subsequent analyses are performed by a laboratory that meets the requirements of ICR 56; and the analyses satisfies both New York State and federal requirements, to document the material as non-ACM.

Prior bulk sample analysis records generated by either in-house or consultant inspection staff are considered in the inspector's review, but not exclusively accepted as evidence of negative results. Materials shall be additionally sampled when plans, records, contributing uses/locations, or visual observations identify a material as SACM. Similarly, if the prior documentation is not sufficient to definitively indicate the material is asbestos, or the prior sampling and/or analysis does not meet currently accepted protocols (such as New York State Department of Health (NYSDOH) requirements), then additional sampling is warranted.

If additional sampling is not deemed necessary, an inspector's narrative will discuss reasoning behind the decision. All narrative discussions are broken down by structure.

HUNT prepared this Report, in accordance with the above-described methodology. Sample locations were randomly chosen from each homogeneous sample area, so as not to bias any sample results. However, samples were preferentially collected from damaged areas and/or easily/safely accessible locations. The sample was then placed in a referenced numbered sample bag. The chain-of-custody information was completed, including the location, material type, and analyses to be performed. Samples of suspect ACMs obtained by HUNT were sent to AmeriSci Laboratories in New York, New York for laboratory analyses.

3.2 LEAD-BASED PAINT & PCBs

Potential lead-based paint and PCB materials may also be impacted by the planned work. Given the date of the structure (reportedly built in the 1950s) and known use of lead paint, lead paint samples were not collected per NYSDOT standards, and all painted surfaces shall be assumed to be lead based.

USEPA recognizes that caulks and sealants are suspected to contain PCBs. HUNT understands that it is not NYSTA policy to sample for PCBs, therefore no samples were analyzed for PCBs. However, future sampling may be required to facilitate proper disposal.

4.0 ANALYTICAL PROTOCOL

A material is classified as asbestos-containing under OSHA regulation 29 CFR 1926.1101, if it is demonstrated by approved laboratory techniques that bulk samples from a homogeneous sampling area contain greater than >1% asbestos by weight, or if it is a presumed asbestos-containing material (PACM). A PACM is defined as thermal system insulations and surfacing material in a structure, constructed no later than 1981. The designation of PACM may be refuted by the collection and analysis of bulk samples in accordance with the triple-sampling and the 3-5-7 Rule Protocol established in the Asbestos Hazard Emergency Response Act (AHERA).

In New York State, bulk samples are divided into (3) categories: 1) friable materials, 2) non-friable materials, and 3) non-friable organically bound materials (NOBs). Polarized Light Microscopy (PLM) can analyze asbestos bulk samples. PLM utilizes a light microscope to identify asbestos fibers based on visual properties of the sample. Each is divided into sub-samples and mounted on four (4) slides in the same refractive index oil. A stratified point count method is then performed to determine asbestos content. This enables the analyst to determine accurately the percentage of asbestos and non-asbestos components. This method is effective in determining asbestos content for friable and many non-friable materials.

Non-friable organically bound (NOB) materials encompass a wide range of building materials that have embedded flexible to rigid asphalt or vinyl matrix such as floor tiles, mastics, and roofing. The matrix composition of these materials limits the effectiveness of the PLM analysis. In order to determine asbestos content more accurately, NOB samples are first Gravimetrically Reduced (GR) in accordance with the New York State (NYS) Environmental Laboratory Approval Program (ELAP) 198.6 Protocol. After an initial sample weight is determined, the sample is reduced organically in a muffle furnace and then digested in acid. The sample is weighed again and compared to its initial weight. If the post-reduction (residue) weight is less than or equal to $\leq 1\%$ of the initial weight, it cannot be defined as an ACM.

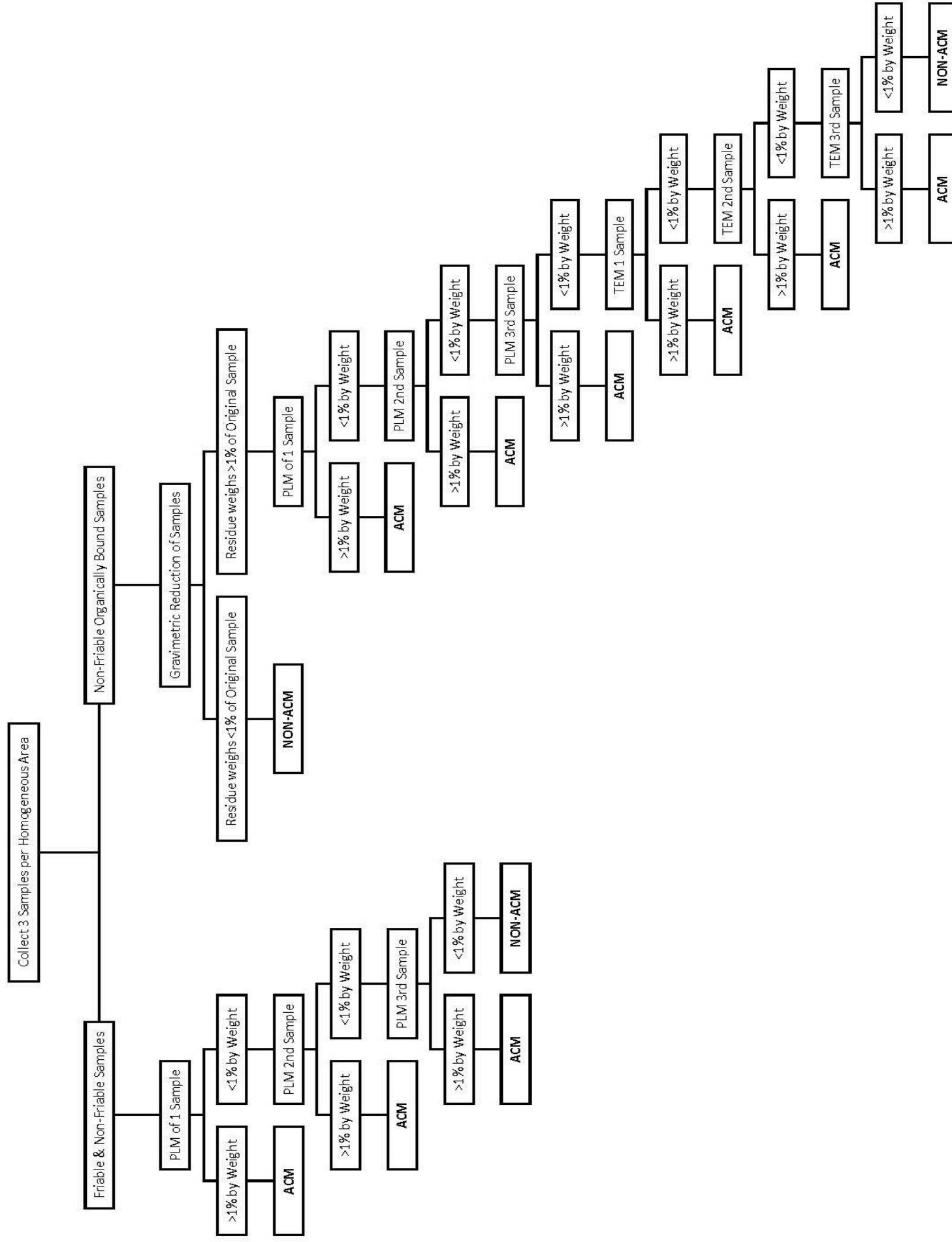
If the post-reduction (residue) weight is greater than >1% of the original sample weight, the sample is analyzed by PLM analysis. If the PLM analysis results in asbestos concentrations greater than >1%, the

sample is identified as an ACM. If the analysis indicates asbestos concentrations less than or equal to $\leq 1\%$, the sample then must be analyzed by Transmission Electron Microscopy (TEM) in accordance with NYS ELAP 198.4 Protocol, in order to finally determine if the NOB sample is an ACM.

Any one (1) positive sample from a homogeneous sampling area determines the material to be classified as asbestos-containing. A “positive stop approach” is utilized. The laboratory is instructed to not analyze remaining samples from a given homogeneous sampling area following the first positive result. Any NOB homogeneous sampling area that yields all negative results by PLM after GR, must have all samples undergo TEM analyses on a first positive basis. The material is determined not to be asbestos containing if all samples are analyzed by TEM and found to be less than or equal to $\leq 1\%$ asbestos. The sampling and analytical protocols are depicted in Figure 4.1.

Standard PLM and TEM sampling cannot determine the ACM content of vermiculite. Special analyses are required and outlined in New York Department of Health (NYSDOH) ELAP protocol 198.8. NYS DOH Environmental Laboratory Approval Program states 198.8 incorporates a two-step approach for the identification and quantitation of chrysotile and amphibole asbestos, including Libby amphiboles, in surfacing material containing vermiculite (SM-V). The first step utilizes gravimetric reduction including ashing to remove the organic materials and dilute acid treatment to remove gypsum and cement from SM-V. The residue is then examined by PLM for the presence of chrysotile, which is quantitated by point counting. If the concentration of chrysotile is found to exceed 1%, the material is considered asbestos containing material (ACM), and the analysis is terminated. If chrysotile is either not detected, or is found at a concentration less than 1%, then the analysis is continued to determine the concentration of amphibole asbestos. Heavy liquid centrifugation is used to separate particles with densities exceeding 2.75 g/cc from the majority of the less dense matrix components. This results in a centrifugate that contains any amphibole that was present in the original sample. The concentration of the amphibole can then be reliably determined by PLM and point counting. The total asbestos content is obtained by adding the concentration of asbestos quantitated in step one (chrysotile) with the asbestos quantitated in step two (amphibole). If the final concentration is determined to be greater than 1%, the material is designated as ACM.

FIGURE 4.1
ASBESTOS BULK SAMPLING AND ANALYTICAL FLOWCHART



5.0 RESULTS

5.1 ASBESTOS

Following visual assessment and classification of all potentially disturbed materials on June 4, 2024, all SACM samples collected by HUNT were analyzed by AmeriSci Group Inc. in New York, New York. All seven (7) homogeneous materials were determined by laboratory analysis as non-asbestos containing.

The Occupational Safety and Health Administration (OSHA) does not set a threshold concentration standard for asbestos but sets standards of airborne asbestos fibers worker exposure during renovation and demolition of building components containing <1% of asbestos. Therefore, any detectable concentration of asbestos within a building component subjects a contractor to the OSHA standards for worker Permissible Exposure Limits (PEL) for asbestos.

Detailed information including location, suspect materials, approximate quantities, and determination of condition can be found in Appendix A. The laboratory reports are included in Appendix B.

It should be noted that one suspect material (steel guide rail powder coating) which was identified during the April 19, 2024 inspection, was not identified during the June 4, 2024 inspection. HUNT inspected the entire guide rail and concluded that the guide rail is constructed entirely of unpainted, galvanized steel. In addition, the suspected median caulking identified during the April 19, 2024 inspection appeared similar to, and homogenous with the “gray expansion joint caulking,” which was accessible on the bridge deck along the east abutment. Finally, a black waterproof membrane was discovered during bridge coring and was subsequently sampled.

5.2 LEAD-BASED PAINT

A paint coating is considered a lead-based paint (LBP) by the United States Environmental Protection Agency (USEPA) if analytical results indicate that the concentration of lead exceeds 0.5% by weight, 5,000 ppm, or 5,000 mg/kg or 1.0 mg/cm² using an XRF analyzer. The Occupational Safety and Health Administration (OSHA) does not set a threshold concentration standard for lead but sets standards of airborne lead dust worker exposure during renovation and demolition of building components containing lead. Therefore, any detectable concentration of lead within a building component subjects a contractor to the OSHA standards for lead.

Given the date of the structure (reportedly built in the 1950s) and known use of lead paint, lead paint samples were not collected per NYSDOT policy, and all painted surfaces shall be assumed to be lead based. As such, no paint chip samples were collected or analyzed for lead.

5.3 PCBs

Caulks and sealants can potentially contain PCBs if they were manufactured prior to 1980. The USEPA Toxic Substance Control Act (TSCA) prohibits the use of PCBs at concentrations above 50 parts per million (ppm) which is equivalent to 50 mg/kg, including caulk/sealant that is already in place. TSCA requires that caulk/sealant containing PCB concentrations greater than 50 ppm be removed.

HUNT understands that it is not NYSTA policy to sample PCBs; however, future sampling may be required to facilitate proper disposal. Waste disposal facilities often require all waste to be sampled for PCBs prior to disposal. It is possible that PCB sampling may be required prior to disposal.

Sample location plans are included in Appendix C. Photographs are also included in Appendix C. HUNT's certifications are included in Appendix D.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 ASBESTOS

All materials sampled were determined by laboratory analysis as non-asbestos containing. If additional materials are discovered during work activities, they must also be assumed as ACM until testing occurs.

The Occupational Safety and Health Administration (OSHA) does not set a threshold concentration standard for asbestos but sets standards of airborne asbestos fibers worker exposure during renovation and demolition of building components containing <1% of asbestos. Therefore, any detectable concentration of asbestos within a building component subjects a contractor to the OSHA standards for worker Permissible Exposure Limits (PEL) for asbestos.

Removal, transport, and disposal of any ACMs shall be performed in accordance with all federal, state, and local regulations, including, but not limited to, those of the United States Environmental Protection Agency (USEPA), Occupational Safety and Health Administration (OSHA), New York State Department of Environmental Conservation (NYSDEC), and New York State Department of Labor (NYSDOL). Applicable regulations include National Emission Standards for Hazardous Air Pollutants (NESHAP) promulgated by USEPA and NYSDOL Industrial Code Rule 56 (ICR 56).

6.2 LEAD-BASED PAINT AND MATERIALS

Given the date of the structure (reportedly built in the 1950s) and known use of lead paint, lead paint samples were not collected per NYSDOT standards, and all painted surfaces shall be assumed to be lead-based.

6.3 PCBs

HUNT understands that it is not NYSTA policy to sample PCBs; however, future sampling may be required to facilitate proper disposal. Waste disposal facilities often require all waste to be sampled for PCBs prior to disposal. It is possible that PCB sampling may be required prior to disposal.

7.0 LIMITATIONS

The services described in this Report were performed consistent with generally accepted professional principles and practices and with our agreement with the Client. This Report is for the use and information of the Client, unless otherwise noted. Reliance on this Report by another party must be at their risk, unless, of course, we are consulted on the use or limitations.

Opinions and recommendations contained in this Report apply to conditions existing when services were performed and are intended for the Client within the purposes, locations, time frames, and project parameters indicated. We cannot be responsible for the impact of any changes in environmental standards, practices, or regulations subsequent to the performance of services without our further consultation. We can neither vouch for the accuracy of information supplied by others, nor accept consequences for unconsented use of segregated portions of this Report.

The Report assessed the presence of accessible and/or exposed suspect ACMs, Lead, and PCBs. Although due diligence was given during the assessment, suspect ACMs, Lead, and PCBs may exist behind or beneath inaccessible spaces and inaccessible portions of the building.

APPENDIX A

ASBESTOS ASSESSMENT SPREADSHEET

Appendix A
Asbestos Assessment Spreadsheet

Client: JMT of New York Inc
Project Location: I-87 over the Mahwah River at M.P. 29.41
Contract No.: D214866
HUNT Project No: 03449.002

Building: I-87 BIN #5514129
Building Address:

County: Rockland

HUNT-Engineers, Architects
Land Surveyors & Landscape Architect, D.P.C
143 Court Street
Binghamton, New York 13901

Inspected By: Kerry Blackwood
Chris Bablin
Inspection Dates: 4-Jun-24

AREA	SAMPLE LOCATION	Suspect ACM DESCRIPTION	MATERIAL TYPE	APPROXIMATE QUANTITY	CONDITION	% Asbestos	FRIABLE F/NF	REMOVAL OPTIONS	SPECIFICATION ITEM NUMBER
HA-1	Bridge Deck	Gray Expansion Joint Caulk	Caulk	-	Fair	NAD	NF	-	1A-1B
HA-2	Bridge Deck	Black Waterproof Membrane	Vapor Barrier	-	Fair	NAD	NF	-	2A-2B
HA-3	Beneath Bridge	Green Girder Paint	Paint	-	Poor	NAD	NF	-	3A-3B
HA-4	Beneath Bridge	Gray Foam	Foam	-	Fair	NAD	NF	-	4A-4B
HA-5	Beneath Bridge	Blue Porous Foam	Foam	-	Poor	NAD	NF	-	5A-5B
HA-6	Beneath Bridge	Gray Expansion Joint Foam	Foam	-	Fair	NAD	NF	-	6A-6B
HA-7	Beneath Bridge	Blue Non-Porous Foam	Foam	-	Fair	NAD	NF	-	7A-7B

APPENDIX B

ASBESTOS ANALYTICAL LABORATORY RESULTS



AmeriSci New York

117 EAST 30TH ST.

NEW YORK, NY 10016

TEL: 2126798600 FAX: 2126793114

June 13, 2024

Hunt Engineers, Architects & Land Surveyors,
Attn: Reuben Kabithe
100 Hunt Center
Airport Corporate Park
Horseheads, NY 14845-1019

RE: Hunt Engineers, Architects & Land Surveyors,
Job Number 224061502
P.O. #3449.002
3449.002; Mahwah River Bridge; Suffern, NY

Dear Reuben Kabithe:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following Hunt Engineers, Architects & Land Surveyors, samples, received at AmeriSci on Thursday, June 6, 2024, for a 5 day turnaround:

HA-1-1, HA-1-2, HA-1-3, HA-2-1, HA-2-2, HA-2-3, HA-3-1, HA-3-2, HA-3-3, HA-4-1, HA-4-2, HA-4-3, HA-5-1, HA-5-2, HA-5-3, HA-6-1, HA-6-2, HA-6-3, HA-7-1, HA-7-2, HA-7-3

The 21 samples, placed in Zip Lock Bag, were shipped to AmeriSci via Fed Ex. Hunt Engineers, Architects & Land Surveyors, requested ELAP PLM/TEM analysis of these samples.

The results of the analyses which were performed following ELAP Protocols 198.1 PLM Friable and/or 198.6 for PLM NOB. ELAP Protocol 198.4 TEM NOB guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction, combined PLM and TEM analysis results are listed in the Summary Bulk Asbestos Analysis Results in Table I. Complete PLM results for individual samples are presented in the PLM Bulk Asbestos Report. Samples near 1% asbestos may be analyzed by EPA 400 pt ct method (EPA 600-M4-82-020). This combined report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency. This report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "John P. Koubiadis". The signature is stylized with a large, sweeping initial "J" and a long, horizontal stroke extending to the right.

John P. Koubiadis
Asb. Mgr. | Authorized Signatory

**AmeriSci New York**

117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Hunt Engineers, Architects & Land Survey
Attn: Reuben Kabithe
100 Hunt Center
Airport Corporate Park
Horseheads, NY 14845-1019

Date Received 06/06/24
Date Examined 06/11/24
ELAP # 11480
RE: 3449.002; Mahwah River Bridge; Suffern, NY

AmeriSci Job # 224061502
P.O. #
Page 1 **of** 4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HA-1-1 1	224061502-01 Location: Mahwah River Bridge - Top Side - Gray Expansion Joint Caulk	No	NAD (by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 5.8%			
HA-1-2 1	224061502-02 Location: Mahwah River Bridge - Top Side - Gray Expansion Joint Caulk	No	NAD (by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 4.6%			
HA-1-3 1	224061502-03 Location: Mahwah River Bridge - Top Side - Gray Expansion Joint Caulk	No	NAD (by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 6%			
HA-2-1 2	224061502-04 Location: Mahwah River Bridge - Top Side - Black Waterproof Membrane	No	NAD (by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 35.1%			
HA-2-2 2	224061502-05 Location: Mahwah River Bridge - Top Side - Black Waterproof Membrane	No	NAD (by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 43.2%			

PLM Bulk Asbestos Report

3449.002; Mahwah River Bridge; Suffern, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HA-2-3 2	224061502-06	No	NAD
Location: Mahwah River Bridge - Top Side - Black Waterproof Membrane			(by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 43%			
HA-3-1 3	224061502-07	No	NAD
Location: Mahwah River Bridge - Under Side - Green Girder Paint			(by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 37.8%			
HA-3-2 3	224061502-08	No	NAD
Location: Mahwah River Bridge - Under Side - Green Girder Paint			(by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 49.5%			
HA-3-3 3	224061502-09	No	NAD
Location: Mahwah River Bridge - Under Side - Green Girder Paint			(by NYS ELAP 198.6) by Bo Sun on 06/11/24
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 53.9%			
HA-4-1 4	224061502-10	No	NAD
Location: Mahwah River Bridge - Under Side - Gray Foam			(by NYS ELAP 198.1) by Bo Sun on 06/11/24
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			
HA-4-2 4	224061502-11	No	NAD
Location: Mahwah River Bridge - Under Side - Gray Foam			(by NYS ELAP 198.1) by Bo Sun on 06/11/24
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			

PLM Bulk Asbestos Report

3449.002; Mahwah River Bridge; Suffern, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HA-4-3 4	224061502-12	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Location: Mahwah River Bridge - Under Side - Gray Foam Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-5-1	224061502-13	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Location: Mahwah River Bridge - Under Side - Blue Porous Foam Analyst Description: Blue, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-5-2	224061502-14	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Location: Mahwah River Bridge - Under Side - Blue Porous Foam Analyst Description: Blue, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-5-3	224061502-15	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Location: Mahwah River Bridge - Under Side - Blue Porous Foam Analyst Description: Blue, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-6-1 6	224061502-16	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Location: Mahwah River Bridge - Under Side - Gray Expansion Joint Foam Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-6-2 6	224061502-17	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Location: Mahwah River Bridge - Under Side - Gray Expansion Joint Foam Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			

Client Name: Hunt Engineers, Architects & Land Surveyors,

PLM Bulk Asbestos Report

3449.002; Mahwah River Bridge; Suffern, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HA-6-3 6	224061502-18 Location: Mahwah River Bridge - Under Side - Gray Expansion Joint Foam	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-7-1 7	224061502-19 Location: Mahwah River Bridge - Under Side - Blue Non-Porous Foam	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Analyst Description: Blue, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-7-2 7	224061502-20 Location: Mahwah River Bridge - Under Side - Blue Non-Porous Foam	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Analyst Description: Blue, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
HA-7-3 7	224061502-21 Location: Mahwah River Bridge - Under Side - Blue Non-Porous Foam	No	NAD (by NYS ELAP 198.1) by Bo Sun on 06/11/24
Analyst Description: Blue, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			

Reporting Notes:

Analyzed by: Bo Sun
Date: 6/11/2024



Reviewed by: Hongyan Ran



*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop, (SOF-V) = Sprayed On Fireproofing containing Vermiculite; (SM-V) = Surfacing Material containing Vermiculite; PLM Bulk Asbestos Analysis using Motic, Model BA310 Pol Scope, Microscope, Serial #: 1190000538, by Appd E to Subpt E, 40 CFR 763 quantified by either CVES or 400 pt ct as noted for each analysis (NVLAP 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite, or ELAP 198.6 for NOB samples, or EPA 400 pt ct by EPA 600-M4-82-020 (NY ELAP Lab 11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. RI Cert AAL-094, CT Cert PH-0186, Mass Cert AA000054, NJ Lab ID #NY031.

_____END OF REPORT_____

Client Name: Hunt Engineers, Architects & Land Surveyors,

Table I
Summary of Bulk Asbestos Analysis Results

3449.002; Mahwah River Bridge; Suffern, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	HA-1-1	1	0.214	48.7	45.5	5.8	NAD	NAD
	Location: Mahwah River Bridge - Top Side - Gray Expansion Joint Caulk							
02	HA-1-2	1	0.174	46.9	48.5	4.6	NAD	NAD
	Location: Mahwah River Bridge - Top Side - Gray Expansion Joint Caulk							
03	HA-1-3	1	0.282	48.9	45.1	6.0	NAD	NAD
	Location: Mahwah River Bridge - Top Side - Gray Expansion Joint Caulk							
04	HA-2-1	2	0.633	56.3	8.6	35.1	NAD	NAD
	Location: Mahwah River Bridge - Top Side - Black Waterproof Membrane							
05	HA-2-2	2	0.756	45.2	11.5	43.2	NAD	NAD
	Location: Mahwah River Bridge - Top Side - Black Waterproof Membrane							
06	HA-2-3	2	0.602	41.3	15.7	43.0	NAD	NAD
	Location: Mahwah River Bridge - Top Side - Black Waterproof Membrane							
07	HA-3-1	3	0.731	13.3	48.9	37.8	NAD	NAD
	Location: Mahwah River Bridge - Under Side - Green Girder Paint							
08	HA-3-2	3	0.726	17.4	33.1	49.5	NAD	NAD
	Location: Mahwah River Bridge - Under Side - Green Girder Paint							
09	HA-3-3	3	0.623	16.5	29.6	53.9	NAD	NAD
	Location: Mahwah River Bridge - Under Side - Green Girder Paint							
10	HA-4-1	4	----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Gray Foam							
11	HA-4-2	4	----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Gray Foam							
12	HA-4-3	4	----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Gray Foam							
13	HA-5-1		----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Blue Porous Foam							
14	HA-5-2		----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Blue Porous Foam							
15	HA-5-3		----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Blue Porous Foam							
16	HA-6-1	6	----	----	----	----	NAD	NA
	Location: Mahwah River Bridge - Under Side - Gray Expansion Joint Foam							

Client Name: Hunt Engineers, Architects & Land Surveyors,

Table I
Summary of Bulk Asbestos Analysis Results
 3449.002; Mahwah River Bridge; Suffern, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	HA-6-2	6	----	----	----	----	NAD	NA
Location: Mahwah River Bridge - Under Side - Gray Expansion Joint Foam								
18	HA-6-3	6	----	----	----	----	NAD	NA
Location: Mahwah River Bridge - Under Side - Gray Expansion Joint Foam								
19	HA-7-1	7	----	----	----	----	NAD	NA
Location: Mahwah River Bridge - Under Side - Blue Non-Porous Foam								
20	HA-7-2	7	----	----	----	----	NAD	NA
Location: Mahwah River Bridge - Under Side - Blue Non-Porous Foam								
21	HA-7-3	7	----	----	----	----	NAD	NA
Location: Mahwah River Bridge - Under Side - Blue Non-Porous Foam								

Analyzed by: Hongyan Ran
 Date: 6/11/2024



Reviewed by: Hongyan Ran



**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by Appd E to Subpt E, 40 CFR 763 or NYSDOH ELAP 198.1 for New York friable samples or NYSDOH ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (or NYSDOH ELAP 198.4; for New York samples). Analysis using Hitachi, Model H7000-Noran 7 System, Microscope, Serial #: 747-05-06. NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; (SOF-V) = Sprayed On Fireproofing containing Vermiculite; (SM-V) = Surfacing Material containing Vermiculite; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses): NVLAP (PLM) 200546-0, NYSDOH ELAP Lab 11480, NJ Lab ID #NY031.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Relinquished By: C. Bablin Date/Time: 6/4/24
 Received By: Claudia Matthews Date/Time: 6/6/24 12:30
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

BULK SAMPLE SHEET
 117 EAST 30TH STREET
 NEW YORK, NY 10016
 TOLL FREE (800) 705-5227
 Fax (212) 679-3114

AMERISCI

Company: Hunt-EAS Project: Mahwah River Bridge Project #: 3449.002
 Street Address: 143 Court St Project Address: Suffern NY
 City: Binghamton State: NY Zip: 13901 Project Manager: Jim Pascell
 Phone: 607-798-8081 Fax: _____ Analysis: PLM Only TEM Only NY ELAP PLM/TEM with NOB Prep.
ASTM Dust (microvac) ASTM Dust (Wipe) Other (describe in comments)
 Site/Secondary Fax #: 607-422-0178 Turnaround Time: 5-day Material Type: ✓ Bulk Dust Water
 Results to: bablin@hunt-eas.com Sampled By: C. Bablin Date Sampled: 6/4/24
 Special Instructions or Comments: _____

Field ID	Location	Sample Description (for dust= size of surface area sampled)	Homogenous Area (HA #)
HA-1-1	Mahwah River Bridge - Top Side	Gray expansion Joint Caulk	1
HA-1-2	~	~	1
HA-1-3	~	~	1
HA-2-1	~	Black Waterproof Membrane	2
HA-2-2	~	~	2
HA-2-3	~	~	2
HA-3-1	Mahwah River Bridge - under side	Green girder paint	3
HA-3-2	~	~	3
HA-3-3	~	~	3
HA-4-1	~	Gray foam	4
HA-4-2	~	~	4
HA-4-3	~	~	4
HA-5-1	~	Blue porous foam	
HA-5-2	~	~	
HA-5-3	~	~	

**117 EAST 30TH STREET
NEW YORK, NY 10016
TOLL FREE (800) 705-5227
Fax (212) 679-3114**

Date/Time:

Received By:

Special Instructions or Comments:

Sampled By: C

AMERISCI #:

By: C. Bledsoe

Date Sampled: 6/9/29

Field ID	Location	Sample Description (for dust= size of surface area sampled)	Homogenous Area (HA #)
HA-6-1	Mahwah River Bridge - under side	Gray expansion Joint form	6
HA-6-2	~	~	6
HA-6-3	~	~	6
HA-7-1	~	Blue Non-porous form	7
HA-7-2	~	~	7
HA-7-3	~	~	7

APPENDIX C

SAMPLE LOCATION MAPS & PHOTOGRAPHS

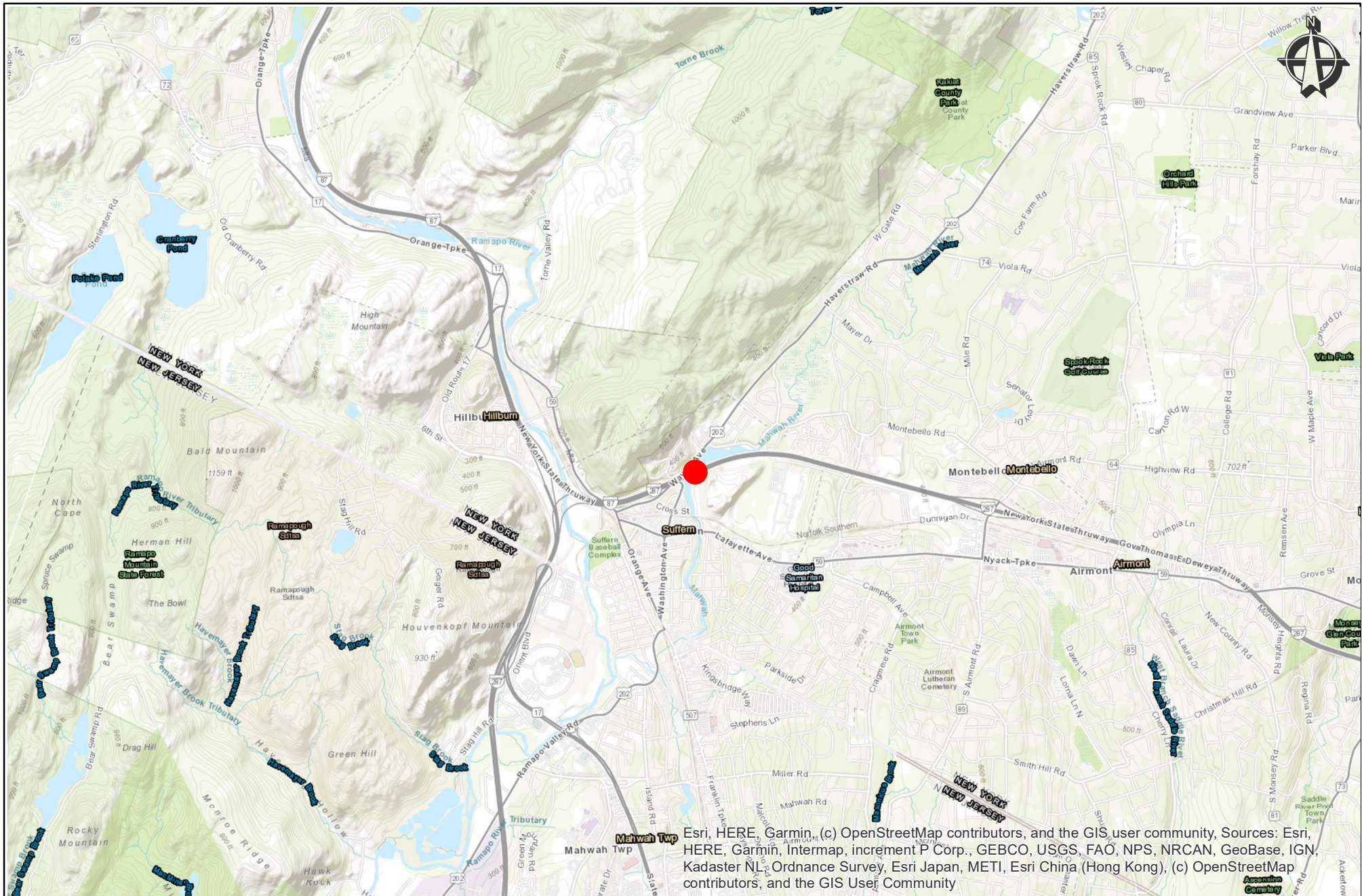


Figure 1
Project Location Map

Legend

● Project Location

NYSTA I-87 MP 29.41 Bridge over the Mahwah River
Suffern New York
Rockland County

HUNT ENGINEERS | ARCHITECTS | SURVEYORS

0 1,000 2,000 4,000 6,000 8,000 Feet
1 inch = 4,000 feet
1:48,000



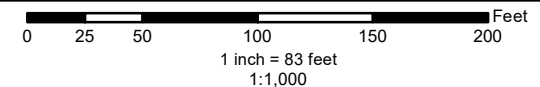
Legend

- Coring Locations
- Bridge Deck Sample Location
- Below Bridge Sample Location
- Subject Property Boundary

Figure 2
Sample Location Map

NYSTA I-87 (MP 29.41) Bridge over the Mahwah River
Village of Suffern, New York
Rockland County

HUNT ENGINEERS | ARCHITECTS | SURVEYORS



PHOTOGRAPHS

Project Name & Job Number: I-87 bridge over the Mahwah River, Project # 3449.002

Project Address(es): I-87 over the Mahwah River Bridge M.P. 29.41, Village of Suffern, New York, Rockland County

Photo Number: 1

Photo Date: 6/4/2024

Photo Location: Bridge deck

Direction Facing: East

Photo Description: Bridge coring



Photo Number: 2

Photo Date: 6/4/2024

Photo Location: Bridge deck

Direction Facing: N/A

Photo Description: Vapor barrier sample



Photo Number: 3

Photo Date: 6/4/2024

Photo Location: Bridge deck

Direction Facing: North

Photo Description: Exposed vapor barrier



Photo Number: 4

Photo Date: 6/4/2024

Photo Location: Below bridge/east abutment

Direction Facing: East

Photo Description: Porous blue foam



Photo Number: 5

Photo Date: 6/4/2024

Photo Location: Beneath bridge

Direction Facing: North

Photo Description: Green girder paint



Photo Number: 6

Photo Date: 6/4/2024

Photo Location: Beneath bridge, east abutment

Direction Facing: East

Photo Description: Gray expansion joint foam/non porous blue foam



Photo Number: 7

Photo Date: 6/4/2024

Photo Location: Blow bridge, east abutment

Direction Facing: East

Photo Description: Gray expansion joint foam



Photo Number: 8

Photo Date: 4/19/2024

Photo Location: North bound, north shoulder

Direction Facing: South

Photo Description: Gray foam



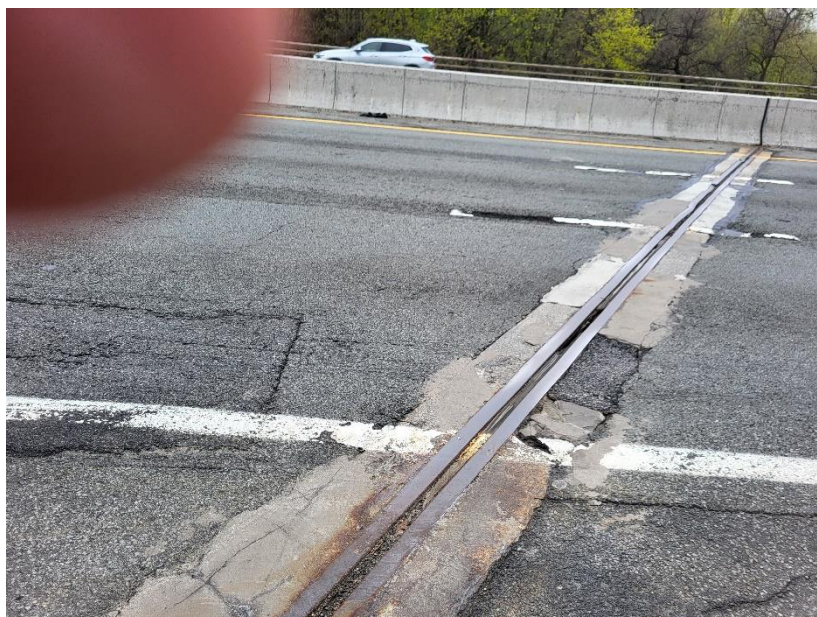
Photo Number: 9

Photo Date: 4/19/2024

Photo Location: North bound, north shoulder

Direction Facing: South

Photo Description: Expansion joint caulk



APPENDIX D

CERTIFICATIONS

WE ARE YOUR DOL



**Department
of Labor**

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

Hunt Engineers, Architects, Land Surveyors & Landscape Architect D.P.C.
100 Hunt Center, Airport Corporate Park, Horseheads, NY, 14845

License Number: 29283

License Class: RESTRICTED

Date of Issue: 09/01/2023

Expiration Date: 09/30/2024

Duly Authorized Representative: Gary Henry

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Phillips, Director
For the Commissioner of Labor

EXCELSIOR

United States Environmental Protection Agency

This is to certify that

Hunt Engineers, Architects, Land Surveyors &
Landscape Architect, DPC

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has
received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires April 14, 2026

LBP-F247882-1

Certification #

March 31, 2023

Issued On



Sheila Canavan, Associate Division Director
Existing Chemicals Risk Management Division

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. KAROL H. LU
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual

Serial No.: 68795

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



Department of Health

KATHY HOCHUL
Governor

JAMES V. McDONALD, M.D., M.P.H.
Commissioner

JOHANNE E. MORNE, M.S.
Executive Deputy Commissioner

LAB ID: 11480

April 01, 2024

MS. KAROL H. LU
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

Certificate Expiration Date:
April 01, 2025

Dear Ms. Lu,

Enclosed are certificate(s) of approval issued to your environmental laboratory for the current permit year. The certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the fields of accreditation (category - method - analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact us at the Environmental Laboratory Approval Program, Wadsworth Center, New York State Department of Health, Empire State Plaza, Albany NY, 12237; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at elap@health.ny.gov.

Sincerely,

Amy J. Steuerwald, Ph.D.
Director, Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. KAROL H. LU
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos	40 CFR 763 APX A No. III YAMATE, AGARWAL GIBB NIOSH 7402
Fibers	NIOSH 7400 A RULES

Serial No.: 68796

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elapublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. KAROL H. LU
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Miscellaneous

Asbestos

EPA 100.2

Serial No.: 68794

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.





01213 006915872 30



**Department
of Labor**

CHRISTOPHER BABLIN

4 MILTON HEIGHTS BLVD
BALLSTON SPA New York 12020

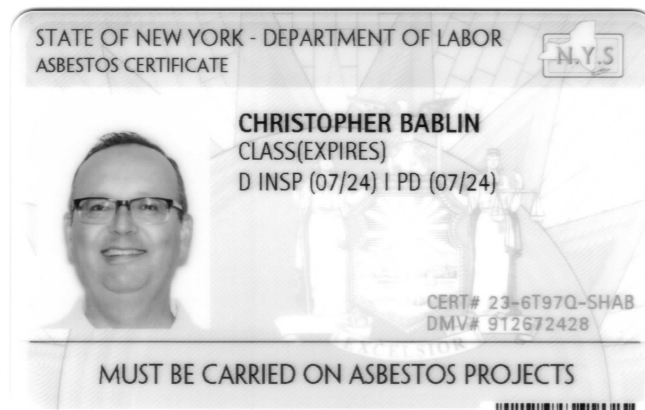
Enclosed is your new card.

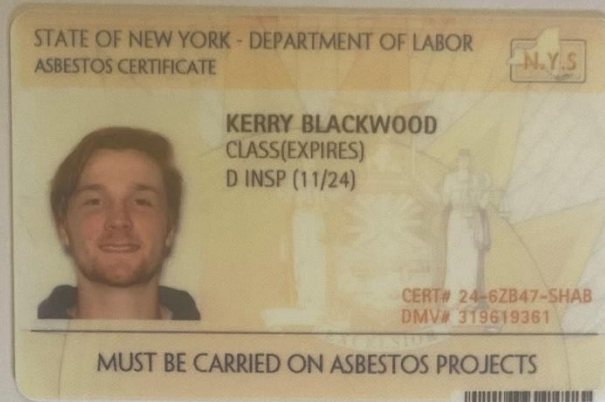
NYS Department of Labor

The Department of Labor is happy to provide this improved card. We welcome your comments:

nysdol@labor.ny.gov or call (518) 457-2735

YOUR NEW CARD





New York State Department of Health Certificate of Asbestos Safety Training

This form is the official record of successful completion of a New York State accredited asbestos safety training course.

Certificate No. **947705**

I - To be completed by Trainee

Name of Trainee (print) <u>Kerry Blackwood</u>	NYS Depart. of Motor Vehicles ID (DMV ID) ¹ <u>319 619 361</u>		
Signature of Trainee <u>Kerry Blackwood</u>	Telephone Number <u>518 706 9281</u>	Date of Birth ¹ <u>11/23/2000</u>	
Address <u>347 County Highway 156 Johnstown NY 12095</u>			
(Street or PO Box)	(City)	(State)	(Zip Code)

II - To be completed by Training Sponsor

Provider's Name <u>Ambient Environmental, Inc.</u>	Telephone Number
Address <u>828 Washington Avenue</u> <u>Albany, New York 12203</u>	
Zip Code <u>518-482-0704</u>	

Course Title: INSPECTOR ☒ Initial ☐ Refresher ☐ DOH Equivalency² NYS DOH use only

Training Language: ☒ English ☐ Other: _____ Exam Grade/Date: 98% 02/04/24

Dates of Training: From: 01/31/24 To: 02/02/24 Expires: 02/02/25

I certify that the asbestos safety training course given on the above date complied with both 10 NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the trainee receiving this certificate completed the training course and successfully passed the examination.

Training Director²: MARN J. MEEHAN (Print) [Signature] (Signature)