



ENVIRONMENTAL SAFETY & HYGIENE ASSOCIATES, INC.

- Indoor Air Quality
- OSHA Compliance
- Asbestos Consulting
- Training
- Lead Consulting
- Industrial Hygiene

April 25th, 2017

Mrs. Carol Morrissette
Residential Design Studio
21 Chestnut Street, Unit 506
Portland, Maine 04101

Re: Asbestos Demolition Impact Assessment, 86 Morning Street, Portland, Maine.

Dear Mrs. Morrissette:

Environmental Safety & Hygiene Associates, Inc. (ESHA) was retained by Residential Design Studio to conduct a *MDEP and USEPA required and compliant asbestos demolition impact assessment* of a two car garage located at 86 Morning Street, Portland, Maine.

The objective of the assessment was to assess and document the presence of Presumed Asbestos Containing Materials (PACM) within the boundary of structure that may be impacted by complete demolition for future development. In addition, the assessment was conducted to assure compliance with the requirements of the MDEP, USEPA National Emission Standard for Hazardous Air Pollutants (NESHAP's), and the Occupational Safety and Health Administration (OSHA).

Background

During the survey, the inspection team identified suspect PACM's for subsequent sampling and analysis. The asbestos building material survey was conducted in accordance with Maine DEP Chapter 425 Asbestos Management Regulations. The inspection included collection of bulk building material samples of suspect materials that are representative of each homogenous building material type area. The MDEP has minimum sampling requirements per building for the varying types of suspect materials they are as follows;

Surfacing materials; sprayed or applied by trowel and include fireproofing materials and various plasters. At least three bulk samples of surfacing materials were collected from each homogeneous area that was less than 1,000-square feet. Five bulk samples were collected for areas 1,000 to 5,000-square feet, and seven bulk samples were collected for areas greater than 5,000-square feet

Miscellaneous ACM; includes a variety of ceiling tiles, floor tiles, and gypsum board. Sample quantities for miscellaneous ACM follow the same requirements as for the two previously mentioned ACM types.

Thermal system insulation; including boiler cover, pipe cover, and duct insulation were assessed. The materials were either assumed to be asbestos containing or were sampled as follows; At least three bulk samples of thermal system insulation from each homogenous area or at least one bulk sample from each homogeneous patched area if the section is less than six linear or square feet.

17 Patrick Drive • Westbrook, Maine 04092 • Phone: (207) 854-2711 • Fax: (207) 854-2609

Mrs. Carol Morrissette
Residential Design Studio
Page Two

All bulk samples collected were submitted to EMSL Analytical, Portland, Maine an independent State-licensed and NVLAP Accredited Asbestos Analytical Laboratory. Bulk samples of surfacing materials, thermal system insulation, and cementitious materials were analyzed by PLM-EPA 600/R-93/116 visual estimation method. Materials with an asbestos content of less than 10% as determined by PLM were reanalyzed by Point Count Method.

Bulk samples of non-friable organically bound materials (NOB's) such as flooring, asphalt, adhesives, coatings, and glazing were analyzed by PLM/NOB EPA 600/R-93/116 with gravimetric reduction method. Materials with an asbestos content of less than 10% as determined by PLM were reanalyzed by Point Count Method.

Summary of Findings

ESHA collected five (5) sample groups of suspect asbestos containing building materials from the interior and exterior of the structure that will be impacted by complete demolition. (See attached bulk sample summary for more details).

Based on the findings of this assessment and the analytical data the dwelling does not have any regulated asbestos containing building materials.

Hidden or Inaccessible Materials

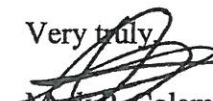
The scope of the survey was limited to accessible spaces and areas that the survey team could access with representatives of the Owner. As with any asbestos study the limitations are typically based on the buildings history and the people familiar with it and the accessibility of areas or materials.

Other hidden materials common with this type of development that were not able to be assessed during this assessment are underground drainage pipe, underground insulated pipe, enclosed pipe chases and trenches, and other areas that are concealed by structure or in-accessible until such time demolition can occur.

The possibility for hidden or un-sampled / investigated PACM is a factor to consider resulting from the accessibility of areas and inability to conduct destructive sampling. During any facility operation including general maintenance, renovations, house-keeping or general demolition should suspect PACM be encountered, the Owner should first refer to this report and if conclusive results can't be obtained, additional sampling / analysis must be conducted by a State of Maine Licensed Asbestos Inspector.

We appreciate the opportunity to assist you with your asbestos testing needs, should you require further assistance please feel free to contact us at any time.

Very truly,


Mark P. Coleman CIE, CMR
President

ESHA 

Residential Design Studio
21 Chestnut St. #506
Portland, ME 04101
Project No. 17-118

Testing Location: 86 Morning St. Portland
Testing Date: 04/24/2017
Page 1 of 1

Asbestos Bulk Sample Summary

Sample ID	Sample Location	Sample Description/Color	Sample Results
1-A	Exterior	Asphalt Roofing Shingles - Black	No Asbestos Detected
1-B	"	"	No Asbestos Detected
1-C	"	"	No Asbestos Detected
2-A	Exterior	Roofing Felt - Black	No Asbestos Detected
2-B	"	"	No Asbestos Detected
2-C	"	"	No Asbestos Detected
3-A	Exterior	Felt behind Siding - Brown	No Asbestos Detected
3-B	"	"	No Asbestos Detected
3-C	"	"	No Asbestos Detected
4-A	Exterior	Window Sash Glazing - Gray/Black	No Asbestos Detected
4-B	"	"	No Asbestos Detected
4-C	"	"	No Asbestos Detected

Asbestos Analytical Results



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Tel/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com / portlandlab@emsl.com

EMSL Order: 621700620
Customer ID: ESH50
Customer PO:
Project ID:

Attention: Mark Coleman
Environmental Safety & Hygiene Assoc.
91 Larrabee Rd
Westbrook, ME 04092
Phone: (207) 756-9429
Fax:
Received Date: 04/25/2017 4:13 PM
Analysis Date: 04/26/2017
Collected Date: 04/25/2017
Project: 86 MORNING STREET

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via EPA 600/R-93/116 section 2.3

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
1A 621700620-0001	ASPHALT ROOFING SHINGLES	Black Fibrous Homogeneous	100	None	No Asbestos Detected
1B 621700620-0002	ASPHALT ROOFING SHINGLES	Black Fibrous Homogeneous	100	None	No Asbestos Detected
1C 621700620-0003	ASPHALT ROOFING SHINGLES	Black Fibrous Homogeneous	100	None	No Asbestos Detected
2A 621700620-0004	BLACK ROOFING FELT	Black Fibrous Homogeneous	100	None	No Asbestos Detected
2B 621700620-0005	BLACK ROOFING FELT	Black Fibrous Homogeneous	100	None	No Asbestos Detected
2C 621700620-0006	BLACK ROOFING FELT	Black Fibrous Homogeneous	100	None	No Asbestos Detected
3A 621700620-0007	BROWN FELT BEHIND SIDING	Brown Fibrous Homogeneous	100	None	No Asbestos Detected
3B 621700620-0008	BROWN FELT BEHIND SIDING	Brown Fibrous Homogeneous	100	None	No Asbestos Detected
3C 621700620-0009	BROWN FELT BEHIND SIDING	Brown Fibrous Homogeneous	100	None	No Asbestos Detected
4A 621700620-0010	WINDOW SASH GLAZING	Gray/Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4B 621700620-0011	WINDOW SASH GLAZING	Gray/Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4C 621700620-0012	WINDOW SASH GLAZING	Gray/Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. Interpretation and use of test results are the responsibility of the client. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. This report contains data that is (are) not covered by the NVLAP accreditation. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from: 04/26/2017 11:32:21



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Tel/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com / portlandlab@emsl.com

EMSL Order: 621700620
Customer ID: ESH50
Customer PO:
Project ID:

Attention: Mark Coleman
Environmental Safety & Hygiene Assoc.
91 Larrabee Rd
Westbrook, ME 04092
Project: 86 MORNING STREET

Phone: (207) 756-9429
Fax:
Received Date: 04/25/2017 4:13 PM
Analysis Date: 04/26/2017
Collected Date: 04/25/2017

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via EPA 600/R-93/116 section 2.3

Sample ID Description Appearance % Matrix Material % Non-Asbestos Fibers Asbestos Types

Maine Analyst Certification # BA-0174, BA-0178

Analyst(s)

Stephen Severn (8)
Zackary Carbee (4)

Christina Walker, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. Interpretation and use of test results are the responsibility of the client. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. This report contains data that is (are) not covered by the NVLAP accreditation. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from: 04/26/2017 11:32:21



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

621700620

South Portland, ME 04106
PHONE: (207) 517-6921
FAX: (207) 517-6922

Company Name : Environmental Safety & Hygiene Assoc.		EMSL Customer ID:	
Street: 91 Larrabee Rd		City: Westbrook	State/Province: ME
Zip/Postal Code: 04092	Country: US	Telephone #: 207-756-9429	Fax #:
Report To (Name): Mark Coleman		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: mark@eshiaq.com		Purchase Order:	
Project Name/Number: 86 MORNING STREET		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: ME		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different - If Bill to is Different note instructions in Comments** <i>Third Party Billing requires written authorization from third party</i>			
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 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 <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5	Soil/Rock/Vermiculite <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: Mark Coleman		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A-C	ASPHALT ROOFING SHINGLES		4-25-17
2A-C	BLACK ROOFING FELT		
3A-C	BROWN FELT BEHIND SIDING		
4A-C	WINDOW SILL LINING		
5A-C			
Client Sample # (s): -		Total # of Samples:	
Relinquished (Client):	Date: 4-25-17	Time: 4:00	
Received (Lab):	Date: 04-25-2017	Time: 10:10	
Comments/Special Instructions:			

