



Pre-Demolition NESHAP Building Inspection

Site:
827 Western Avenue
Berlin, NH

Prepared for:
Ms. Pamela Laflamme
City of Berlin
168 Main Street
Berlin, NH 03570

Prepared by:
Calex Environmental, LLC
PO Box 236
Colebrook, NH 03576
(603) 237-9399

Inspection Date: June 17, 2023
Report Date: July 8, 2023
Calex Project: BER-22-005A/B



July 8, 2023

Calex Project: BER-22-005A/B

Ms. Pamela Laflamme
City of Berlin
168 Main Street
Berlin, NH 03570

Emailed: plaflamme@berlinnh.gov

(603) 752-8587

**Re: Pre-Demolition Building Inspection
Residential Multi-Family Building and Two Residential Garages
827 Western Avenue, Berlin, NH (the Site)**

Dear Ms. Laflamme:

Calex Environmental, LLC (Calex) is pleased to provide you with the attached pre-demolition building inspection report for the above referenced Site. The building inspection and this report fulfill the requirements applicable to a NESHAP pre-demolition asbestos inspection and in addition, provide an assessment for other targeted and potentially hazardous materials, i.e., the RCRA (Resource Conservation Recovery Act) metal lead. The report includes procedures, methodologies and analytical laboratory results.

Pre-demolition notifications to local, State and/or Federal regulatory agencies have not been completed by Calex and are the responsibility of the building owner. Prior to initiation of any demolition activities, all identified ACBM (Asbestos Containing Building Materials) must be properly removed (abated) from the building structure.

Calex appreciates the opportunity to perform these services for you and values you as a client. If you require any assistance with the implementation of any recommendations or the completion of the notification requirements, please feel free to contact me.

Sincerely,
Calex Environmental, LLC

A handwritten signature in black ink that reads "Ronald T. Guerin".

Ronald T. Guerin
President

**PRE-DEMOLITION NESHAP
BUILDING INSPECTION**

PREPARED FOR:

Ms. Pamela Laflamme
City of Berlin
168 Main Street
Berlin, NH 03570

PROJECT LOCATION:

Multi-Family Residence and Two Residential Garages
827 Western Avenue
Berlin, New Hampshire

Report Date: July 8, 2023

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**PRE-DEMOLITION
NESHAP ASBESTOS INSPECTION**

for

**Multi-Family Residential Building and Two Residential Garages
827 Western Avenue, Berlin, NH (the Site)**

SECTION 1: NESHAP PRE-DEMOLITION ASBESTOS INSPECTION

1 INSPECTION SUMMARY

- Asbestos Containing Materials (ACM) were not identified at the Site.
- Asbestos Containing Materials (ACM) **were identified** at the Site.

Refer to Section 4.3 below for additional information.

2 SCOPE OF SERVICES

The purpose of this portion of the project was to perform a National Emission Standards for Hazardous Air Pollutants, (NESHAP), pre-demolition asbestos inspection at the above referenced Site which consists of a single, unoccupied, 2-1/2-story, multi-family residential building.

Calex conducted a thorough asbestos survey at the identified building in accordance with the proposed scope of services and as outlined below:

- a. Review of any existing asbestos reports relating to the site, if available.
Note: No existing reports are known to exist.
- b. Survey the Site building.
- c. Identify accessible suspect asbestos containing materials (ACM) in accordance with the US EPA National Emission Standard for Hazardous Air Pollutants (NESHAP), (Ref.: 40 CFR, Part 61).
- d. Collect and analyze bulk samples of suspect materials.
- e. Quantify any asbestos containing materials and record location.

3 GENERAL SITE CONDITIONS

The Site dwelling consists of an unoccupied, ±30-Ft. x ±42-Ft. (nominal, excluding porches), 2-1/2-story, wood framed, two family residence. There is a ±10-Ft. x ±26-Ft., unfinished shed attached to the western end of the building on the ground level in addition to a number of porches i.e., an enclosed porch facing Western Avenue (east side), side porch/deck on the southern side and an open porch/entry on the north side. The building structure is estimated to have been constructed circa 1892 and has undergone a number of renovations over the ensuing years. In addition to the residence, there are two detached garages situated on the western end of the property (one garage accessible only from Gerrish Street).

827 Western Avenue, Berlin, NH

Report Date: July 8, 2023

Finished interior wall surfaces consist primarily of plaster on lath with some drywall panels with applied joint compound and wood paneling. Some of the dry walled and wood paneled areas are constructed over former plaster/lath finishes and some of the plastered walls have been refinished with texture coatings.

Ceilings are constructed primarily of plaster on lath, some plaster finishes having been refinished with texture coatings. Some ceilings feature drywall panels and others a Masonite (hardboard) type of material with battens.

Flooring materials include hardwood flooring, various resilient flooring materials and carpeting.

The exterior of the residence building is covered with cementitious (Transite) siding applied over a layer of painted clapboards, building paper and boards. Many of the window sashes incorporate putty glazing. The building roofs are pitched and covered with asphalt roofing beneath metal roofing. A large portion of the building appears to be uninsulated. However, vermiculite and fiberglass batt insulation were observed for some parts of the building.

The residence building is constructed on a mortared stone foundation and partial crawl space. Two masonry chimneys rise from the basement and extend through the building penetrating the building roof.

Garage #1 (Western Avenue access) is of wood construction with cedar shakes and an asphalt roof. Garage #2 (Gerrish Street access) is of similar construction with wood panel and batten siding.

Several smoke alarms (i.e., potentially containing radioactive material) and thermostats (containing mercury) were observed in the building. When these items were observed, they were removed and placed nearby the kitchen sinks of the respective units. These hazardous material containing devices should be removed prior to commencement of any building demolition and should be properly disposed of.

4 ASBESTOS INSPECTION REPORT

On June 17, 2023, the building structures located at the Site were inspected for asbestos containing building materials by inspector Ronald Guerin of Calnex Environmental, LLC. Mr. Guerin has completed the requisite training for asbestos accreditation as an inspector at an approved training provider under TSCA Title II. Mr. Guerin's State of New Hampshire Asbestos Inspector license number is AI000401 having an expiration date of October 5, 2023. Inspector credentials are provided in **Appendix A**.

The building structures were visually inspected for the presence of suspect asbestos containing materials (ACM). Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, metal, etc.) were not sampled. "Presumed Asbestos Containing Materials" (PACM), were not identified as part of the NHSHAP inspection. The asbestos inspection consisted of three basic steps: 1) a visual inspection of the Site; 2) a determination of homogeneous areas with suspect surfacing, thermal system insulation, and miscellaneous materials; and 3) sampling or presumption of friable and non-friable suspect ACM materials.

4.1 Homogeneous Areas

Prior to sampling, homogeneous areas were identified in order to facilitate a sampling strategy. A homogeneous sampling area can be described as one or more areas with suspect material similar in appearance and texture that have the same installation date and function. The actual number of samples collected from each homogeneous sampling area may vary, dependent upon material type and the professional judgment of the inspector.

4.2 Sampling Strategy

The sampling strategy incorporated certain AHERA requirements, site specific determination of the quantities of suspect material, and the inspector's judgment to aid in the identification of suspect asbestos containing materials. Calex's sampling strategy was to identify and collect suspect asbestos containing materials (ACM) in accordance with the USEPA National Emission Standard for Hazardous Air Pollutants (NESHAP), (ref.: 40 CFR, Part 61). If the analytical results indicated that all the samples collected per homogeneous area did not contain asbestos, then the homogeneous area (material) was considered to be non-asbestos containing. However, if the analytical results of one or more of the samples collected per homogeneous area indicated that asbestos was present in quantities greater than one percent asbestos (as defined by EPA), all of the homogeneous area (material) was treated as an asbestos containing material regardless of any other analytical results. Materials which were visually determined to be non-asbestos (i.e., fibrous glass, foam rubber, metal etc.) by the accredited inspector were not required to be sampled. Actual collection of a bulk asbestos sample involves physically removing approximately one square inch (1 in²) of material and placing it in an airtight sample container. Sample containers were marked with a unique identification number, which was documented in the field notes.

The attached **Table 1** provides a summary of the suspected asbestos containing building materials that were sampled and subjected to laboratory analysis.

4.3 Asbestos Containing Materials

Materials containing more than 1% asbestos are classified as asbestos containing materials, (ACM). The following ACM was identified at the Site:

- a. Asphalt roofing mastic (roofing shingles and/or roll roofing materials do not contain ACM) on the roof of the east porch (facing Western Avenue) (Line #12, Sample #E-8; Line #13, Sample #E-9) was determined to contain 4% chrysotile asbestos.
- b. Cementitious (Transite) siding on the exterior of the building (Line #14, Sample #W-10) was determined to contain 18% chrysotile asbestos.
- c. Black/grey asphaltic mastic applied to foundation cracks on the stone foundation wall (Line #20, Sample #E-16, Line #21, Sample #E-17) was determined to contain 5% chrysotile asbestos.
- d. Asphalt roofing mastic (roofing shingles and/or roll roofing materials do not contain ACM) on the detached garage building located adjacent to the residence (Western Avenue accessible), (Line #73, Sample #G1-3; was determined to contain 3% chrysotile asbestos.

- e. Any asphalt roofing mastic that may be applied to the main residence roof or flashings is presumed to contain asbestos. Asphalt mastic applied to the main residence roof (if any) was not able to be assessed because of restricted access created by the metal roof cover.

The attached **Table 2** provides a summary of the suspect asbestos containing materials that have been determined through laboratory analysis to have >1% asbestos content or are presumed to have >1% asbestos content.

4.4 Other Materials Containing Asbestos

Building materials containing greater than 0% asbestos content, but equal to or less than 1% ($\leq 1\%$ ACM) were identified at the site. Materials containing less than 1% asbestos or less are not classified as ACM by the NESHAP (40 CFR, Part 61) and are not addressed within the scope of this report. However, it should be noted that materials containing >0% asbestos content may still be subject to worker protection regulations under the Occupational Safety and Health Administration (OSHA), i.e., 29 CFR 1910.1001 and 29 CFR 1926.1101 as these materials may still pose a potential health hazard.

- a. The multi-layered drywall-joint compound system used within the building was determined to have an average asbestos content of <1% asbestos in a composite sample collected from the 1st floor, kitchen wall (Line #53, Sample #1-6). All multi-layered drywall-joint compound systems within the building are presumed to contain asbestos at <1%.
- b. Vermiculite insulation observed within the 2nd floor living room wall, was determined to contain <1% actinolite asbestos. Other wall cavities and locations may contain vermiculite insulation.

4.5 Laboratory Analytical Results

Bulk samples were analyzed by Hayes Microbial Consulting (Hayes), 3005 E. Boundary Terrace, Suite F, Midlothian, VA by means of Polarized Light Microscopy (PLM) analysis, utilizing dispersion staining techniques (ref.: EPA Method 600/M4-82-020). PLM was performed to determine the asbestos content of the bulk samples collected at the site. The laboratory is currently certified with the National Voluntary Laboratory Accreditation Program (NVLAP) under NVLAP Lab Code: 500096-0. Confirmatory sampling, where indicated, utilized PLM 400-point counting analysis.

Any material that contains greater than one percent (>1%) asbestos is considered an ACM and must be handled according to Occupational Safety and Health Administration (OSHA), EPA, and all applicable State and Local regulations.

Details of the sample laboratory analysis are included in **Appendix B**, which contains a listing of all analyzed samples, sample locations, and analytical results relating to the site. Asbestos analytical results are reported as percentage and type. Other common non-asbestos components may also be noted in the analytical report.

5 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted at the Site during the **June 17, 2023**, Calnex inspection

of the building(s) described herein, located at **827 Western Avenue, Berlin, NH.**

Calex performed limited destructive investigations to identify materials that may be present behind the visible surface materials by removing small areas of the surface materials and making assumptions of underlying materials based these observations. Any materials that were not visually identified during our inspection activities were not inspected and would not be noted in this report. Calex's selection of sample locations and frequency of sampling was based on the inspector's assumption that like materials in the same area are homogeneous in content. Materials that were not part of the building structure (materials stored inside or outside of the building, debris located inside or outside of the building, etc., were not included as part of the inspection unless specifically stated otherwise. Appliances (e.g. stoves, furnaces, etc.), HVAC (heating, ventilation and air conditioning) equipment, sub-surface (e.g. foundation coatings, debris) and energized electrical devices were not included in the inspection.

The report is designed to aid the building owner in locating ACM and is intended to serve as a technical component of a NESHAP pre-demolition notification. The report was prepared for the exclusive use of the applicable State and Local asbestos regulatory agency(ies); and the Client and Client's counsel, solely for the purposes stated in this report. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users. Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as an asbestos project design document or an abatement work plan. This report may not be circulated, or conveyed, in whole or in part, to any other party, nor used by any other party, without the prior written permission of Calex.

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

Calex, by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the Site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the Site that may present a potential danger to public health, safety, or the environment. It is the client's responsibility to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent any danger to public health, safety, or the environment. The contents of this report should not be construed in any way as a recommendation to purchase, sell, or further develop the project site.

SECTION 2: RCRA METAL DETERMINATION

1 INSPECTION SUMMARY

Lead TCLP results exceeding regulatory standards **were not detected** in the representative building material sample.

- ☐ Lead TCLP results exceeding regulatory standards were detected in the representative building material sample.

Refer to Section 4 below for additional information.

2 SCOPE OF SERVICES

The purpose of this portion of the project was to evaluate the building materials for the presence of lead.

Calex conducted a thorough survey of the Site building in accordance with the proposed scope of services and as outlined below:

- a. Survey the types and estimate the proportionate quantities of the building materials relative to the entirety of the debris waste stream created by the building demolition.
- b. Collect a representative building material (RBM) sample based upon the criteria established above. Prepare and submit the RBM sample for Toxicity Characteristic Leaching Procedure (TCLP) laboratory analysis.
- c. Review the analytical data and compare the results to regulatory standards.

3 METHODOLOGY

A ±150-gram RBM sample was collected by Calex on June 17, 2023, in general accordance with ASTM E1908-10 and the Connecticut Department of Environmental Protection sampling and waste characterization plans guidance. A representative quantity of burn debris and ash was incorporated in the sample.

The RBM sample was prepared and delivered under chain of custody control and analyzed by Hayes Microbial Consulting (Hayes), 3005 E. Boundary Terrace, Suite F, Midlothian, VA¹. The sample was subjected to TCLP by Hayes for leachable lead utilizing EPA Method 7420.

Details of the sample laboratory analysis are included in **Appendix B**.

4 FINDINGS

The TCLP analytical results for the RBM sample indicate a lead concentration of **<0.5 mg/L** which is well below the established regulatory limit of 5.0 mg/L.

Note: In order for the TCLP analysis to be representative of the building debris stream, no sorting or segregating of building materials may be undertaken. To the extent of being practicable to do so, each waste container should consist of a mixture of building materials representing the entirety of the debris waste stream created by the building demolition.

¹ Analysis was subcontracted by Hayes to EHS Lab, Lab ID# 11714.



TABLES

Suspect Building Materials Sampled – Table 1
Asbestos Containing Materials (ACM) – Table 2





TABLE 1

SUSPECT BUILDING MATERIALS SAMPLED

PROJECT:	BER-22-5A	
SITE:	827 WESTERN AVENUE	
SAMPLE DATE:	June 17, 2023	
MATERIAL	LOCATION	SAMPLE ID
FURNACE CEMENT	BASEMENT - CHIMMNEY	B-1
LINOLEUM	BASEMENT - FLOOR	B-2
LINOLEUM	BASEMENT - FLOOR	B-3
LINOLEUM	BASEMENT - FLOOR	B-4
ASPHALT SHINGLE	MAIN ROOF - SOUTH LAYER 1	E1
ASPHALT ROOFING PAPER	MAIN ROOF - SOUTH LAYER 2	E2
ASPHALT SHINGLE	MAIN ROOF - WEST LAYER 1	E3
ASPHALT ROOFING	MAIN ROOF - WEST LAYER 2	E4
ASPHALT ROOFING	MAIN ROOF - WEST LAYER 3	E5
ASPHALT ROOFING SHINGLE	FRONT PORCH - LAYER 1	E6
ASPHALT ROOFING	FRONT PORCH - LAYER 2	E7
ROOFING MASTIC	FRONT PORCH	E8
ASPHALT SHINGLE W/ MASTIC	FRONT PORCH	E9
CEMENTITIOUS SIDING	EXTERIOR SIDING	E10 (W10)
BUILDING PAPER	EXTERIOR UNDER WOODEN CLAPBOARDS	E11
BUILDING PAPER	EXTERIOR UNDER CEMENTITIOUS SIDING	E12
ASPHALT ROOFING PAPER	REAR SHED ROOF	E13
ASPHALT MASTIC	REAR SHED ROOF	E14
GLAZING	BASEMENT WINDOW NORTH	E15
ASPHALTIC MASTIC	FOUNDATION WALL SEAL	E16
ASPHALTIC MASTIC	FOUNDATION WALL SEAL	E17
PLASTER WITH TEXTURE COATING	3RD FLOOR BEDROOM 1	3-2
GLAZING	3RD FLOOR BEDROOM 1 WINDOW	3-3
PLASTER WITH TEXTURE COATING	3RD FLOOR BEDROOM 1 WALL	3-4
PLASTER WITH TEXTURE COATING	3RD FLOOR BEDROOM 2 CEILING	3-6
GLAZING	3RD FLOOR BEDROOM 2 WINDOW	3-9
RESILIENT FLOORING	3RD FLOOR BEDROOM 2	3-10
RESILIENT FLOORING	3RD FLOOR BEDROOM 2	3-11
PLASTER WITH TEXTURE COATING	3RD FLOOR STAIRCASE WALL	3-13
RESILIENT FLOORING	2ND FLOOR HALLWAY	2-1
RESILIENT FLOORING	2ND FLOOR HALLWAY	2-2
PLASTER WITH TEXTURE COATING	2ND FLOOR HALLWAY	2-4
RESILIENT FLOORING W/ADHESIVE	2ND FLOOR BATHROOM	2-5
DRYWALL	2ND FLOOR HALLWAY	2-6
MASONITE W/ ADHESIVE	2ND FLOOR BATHROOM WALL	2-8
MASONITE W/ ADHESIVE	2ND FLOOR BATHROOM WALL	2-9
PLASTER	2ND FLOOR HALLWAY CEILING	2-10
GLAZING	2ND FLOOR HALLWAY WINDOW	2-11
MASONITE W/ ADHESIVE	2ND FLOOR BATHROOM CEILING	2-12
GLAZING	2ND FLOOR LIVING ROOM	2-14
PLASTER	2ND FLOOR LIVING ROOM CEILING	2-16
PLASTER WITH TEXTURE COATING	2ND FLOOR BEDROOM 4 CEILING	2-19
RESILIENT FLOORING W/ ADHESIVE	2ND FLOOR KITCHEN	2-21
DRYWALL	2ND FLOOR BEDROOM 4 WALL	2-22
PLASTER	2ND FLOOR KITCHEN (INSIDE WALL CHASE)	2-24
GLAZING	2ND FLOOR BEDROOM 3 WINDOW	2-27
PLASTER WITH TEXTURE COATING	2ND FLOOR DEN CEILING	2-30
GLAZING	2ND FLOOR DEN WINDOW	2-31
LINOLEUM	1ST FLOOR SHED	1-1

(1) Multi-layered sample collected.

Note: Layers, if indicated are identified from the top (exposed) layer first, i.e. Layer 1



TABLE 2

ASBESTOS CONTAINING MATERIALS

PROJECT: BER-22-5A
 SITE: 827 WESTERN AVENUE
 SAMPLE DATE: June 17, 2023

MATERIAL	LOCATION	SAMPLE ID	APPROX. QUANTITY	ASBESTOS CONTENT	AHERA CLASS			NESHAP CLASS		
					S	T	M	F	C1	C2
ASPHALT ROOFING MASTIC	PORCH ROOF - WESTERN AVE PORCH	E-8, E-9	50 FT2	4.0%			X		X	
CEMENTITIOUS (TRANSITE) SIDING	EXTERIOR OF RESIDENCE	E-10/W-10	2,100 FT2	18.0%			X			X
ASPHALTIC MASTIC	CRACKS IN FOUNDATION WALL	E-16, E-17	5 FT2	5.0%			X		X	
ASPHALTIC ROOFING MASTIC	GARAGE ROOF - WESTERN AVE ACCESSED	G1-3	40FT2	3.0%			X		X	
ASPHALT ROOFING MASTIC	MAIN ROOF (IF ANY BENEATH METAL ROOFING)	PRESUMED	UNDETERMINED	PRESUMED			X		X	

Note: Layers, if indicated, are identified from the top (exposed) layer first (Layer 1).
 Refer to the attached figures for additional information relative to sample location. . Quantities stated are approximate and should not be relied upon for bidding purposes, project specifications, etc.
 UNK - Unknown. Unable to be determined through inspection methods. PACBM - Presumed Asbestos Containing Building Material (not sampled)
 FT2 - Square Feet LnFt - Lineal Feet Ft3 - Cubic Feet
 AHERA Classifications: S - Surfacing ACM T - Thermal System Insulation (TSI) ACM M - Miscellaneous ACM




APPENDIX A

Inspector Credentials Disclosure of Relationship



Inspector Credentials

STATE of NEW HAMPSHIRE
 Department of Environmental Services
 Asbestos Management & Control Program




ASBESTOS INSPECTOR

AI000401 R

RONALD T GUERIN DOB: 10/6/1957

EFF. Date: 10/6/2022 EXP. Date: 10/5/2023


Air Resources Division Director
 Craig A. Wright *Craig A. Wright*



This is to certify that

Ronald T. Guerin

P.O.Box 236, Colebrook, NH 03576



has completed requisite training by Video Conference, and has passed an examination for
 reaccreditation as:

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location

Zoom Video Conference
 Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

August 17, 2022

Course Dates

22-4305-106-241024


Certificate Number

August 17, 2022

Examination Date

August 17, 2023

Expiration Date



Training Director

16 Upton Drive, Wilmington, MA 01887
Telephone 978.658.5272
www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION



Disclosure of Relationship

Calex Environmental, LLC (Company) and Hayes Microbial Consulting (Laboratory) are independently owned and operated entities without any affiliation legal or otherwise.

Ronald T. Guerin (inspector) is an employee of Calex Environmental, LLC and has no affiliation or interest with Hayes Microbial Consulting (Laboratory) legal or otherwise.

Authorized Signature
Company:

Ronald T. Guerin

Date: July 8, 2023

Ronald T. Guerin
President, Calex Environmental, LLC

Inspector
Signature:

Ronald T. Guerin

Date: July 8, 2023

Ronald T. Guerin
Inspector





APPENDIX B

Laboratory Analytical Reports





#23026251

Analysis Report prepared for

Calex Environmental, LLC

110 Main St.
Colebrook, NH 03576

Phone: (603) 237-9399

BER-22-5A
827 Western Avenue

Collected: **June 17, 2023**
Received: **June 29, 2023**
Reported: **July 7, 2023**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 81 samples by FedEx in good condition for this project on June 29th, 2023.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

All information provided to Hayes Microbial is confidential information relating to our customers and their clients. We will not disclose, copy, or distribute any information verbally or written, except to those designated by the customer(s). We take confidentiality very seriously. No changes to the distribution list will be made without the express consent of the customer.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

A handwritten signature in black ink that reads 'Stephen N. Hayes'.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
1	B-1 - Furnace Cement	Cementitious / Tan		None Detected
2	B-2 - Linoleum	Linoleum / Brown	35% Cellulose Fibers	None Detected
3	B-3 - Linoleum	Linoleum / Brown	35% Cellulose Fibers	None Detected
4	B-4 - Linoleum	Linoleum / Brown	35% Cellulose Fibers	None Detected
5	E1 - Asphalt Shingle	Shingle / Black	20% Cellulose Fibers	None Detected
6	E2 - Asphalt Roofing Paper	Tar Paper / Black	65% Cellulose Fibers	None Detected
7	E3 - Asphalt Shingle	Shingle / Black	20% Cellulose Fibers	None Detected
8	E4 - Asphalt Roofing	Roofing / Black	15% Cellulose Fibers	None Detected
9	E5 - Asphalt Roofing	Roofing / Black	15% Cellulose Fibers	None Detected
10	E6 - Asphalt Roofing Shingle	Shingle / Black	20% Cellulose Fibers	None Detected
11	E7 - Asphalt Roofing	Roofing / Black	15% Cellulose Fibers	None Detected
12	E8 - Roofing Mastic	Tar / Black		4% Chrysotile
13	E9 - Asphalt Shingle w/Mastic	Shingle / Black	20% Cellulose Fibers	None Detected
		Tar / Black		4% Chrysotile
14	W10 - Cementitious Siding	Transite / Gray		18% Chrysotile



Collected: Jun 17, 2023

Received: Jun 29, 2023

Reported: Jul 7, 2023

Project Analyst:
 Megan Audia, *Megan Audia*

Date:
 07 - 07 - 2023

Reviewed By:
 David McDonald, PHR *David McDonald*

Date:
 07 - 07 - 2023

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
15	E11 - Building Paper	Paper / Red	98% Cellulose Fibers	None Detected
16	E12 - Building Paper	Paper / Gray	98% Cellulose Fibers	None Detected
17	E13 - Asphalt Roofing Paper	Tar Paper / Black	65% Cellulose Fibers	None Detected
18	E14 - Asphalt Mastic	Tar / Black		None Detected
19	E15 - Glazing	Glazing / Off-White		None Detected
20	E16 - Asphaltic Mastic	Tar / Black		5% Chrysotile
21	E17 - Asphaltic Mastic	Tar / Black		5% Chrysotile
22	3-2 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
		Texture / White		None Detected
23	3-3 - Glazing	Glazing / Cream		None Detected
24	3-4 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
		Lab Note: Texture Material Not Observed		
25	3-6 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
		Texture / White		None Detected

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
26	3-9 - Glazing	Glazing / Gray		None Detected
27	3-10 - Resilient Flooring	Flooring / Off-White	35% Cellulose Fibers	None Detected
28	3-11 - Resilient Flooring	Flooring / Off-White	35% Cellulose Fibers	None Detected
29	3-13 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
	Lab Note: Texture Material Not Observed			
30	2-1 - Resilient Flooring	Flooring / Tan	5% Cellulose Fibers	None Detected
31	2-2 - Resilient Flooring	Flooring / Tan	5% Cellulose Fibers	None Detected
32	2-4 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
		Texture / White		None Detected
33	2-5 - Resilient Flooring w/Adhesive	Floor Tile / Tan		None Detected
		Adhesive / Yellow		None Detected
34	2-6 - Drywall	Drywall / Off-White	5% Cellulose Fibers	None Detected
35	2-8 - Masonite w/Adhesive	Fibrous / Brown	75% Cellulose Fibers	None Detected
		Adhesive / Black		None Detected

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
36	2-9 - Masonite w/Adhesive	Fibrous / Brown	75% Cellulose Fibers	None Detected
		Adhesive / Black		None Detected
37	2-10 - Plaster	Rough Coat / Gray		None Detected
		Joint Compound / White		None Detected
38	2-11 - Glazing	Glazing / Off-White		None Detected
39	2-12 - Masonite w/Adhesive	Rough Coat / Tan		None Detected
		Joint Compound / Cream		None Detected
		Adhesive / Clear		None Detected
		Fibrous / Brown	98% Cellulose Fibers	None Detected
40	2-14 - Glazing	Glazing / White		None Detected
41	2-16 - Plaster	Rough Coat / Tan		None Detected
42	2-19 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
		Texture / White		None Detected
43	2-21 - Resilient Flooring w/Adhesive	Floor Tile / Tan		None Detected
		Adhesive / Yellow		None Detected



Collected: Jun 17, 2023

Received: Jun 29, 2023

Reported: Jul 7, 2023

Project Analyst:
 Megan Audia, *Megan Audia*

Date:
 07 - 07 - 2023

Reviewed By:
 David McDonald, PHR *David McDonald*

Date:
 07 - 07 - 2023

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
44	2-22 - Drywall	Drywall / Off-White	5% Cellulose Fibers	None Detected
45	2-24 - Plaster	Rough Coat / Tan		None Detected
46	2-27 - Glazing	Glazing / Cream		None Detected
47	2-30 - Plaster with Texture Coating	Rough Coat / Tan		None Detected
		Texture / White		None Detected
48	2-31 - Glazing	Glazing / Cream		None Detected
49	1-1 - Linoleum	Linoleum / Tan/Green	35% Cellulose Fibers	None Detected
50	1-2 - Resilient Flooring w/Adhesive	Floor Tile / Tan		None Detected
		Adhesive / Yellow		None Detected
51	1-4 - Soundproofing	Soundproofing / Black		None Detected
52	1-5 - Glazing	Glazing / Cream		None Detected
53	1-6 - Drywall w/Joint Compound	Joint Compound / Drywall / Multi-colored		<1% Chrysotile
		Texture / White		None Detected

Lab Note: Composite of Drywall & Joint Compound.



Collected: Jun 17, 2023

Received: Jun 29, 2023

Reported: Jul 7, 2023

Project Analyst:
 Megan Audia, *Megan Audia*

Date:
 07 - 07 - 2023

Reviewed By:
 David McDonald, PHR *David McDonald*

Date:
 07 - 07 - 2023

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
54	1-9 - Glazing	Glazing / White		None Detected
55	1-10 - Glazing	Glazing / White		None Detected
56	1-11 - Drywall w/Joint Compound	Joint Compound / Drywall / Multi-colored		None Detected
	Lab Note: Composite of Drywall & Joint Compound.			
57	1-12 - Resilient Flooring	Flooring / Cream	35% Cellulose Fibers	None Detected
58	1-14 - Adhesive on Plastic	Adhesive / White		None Detected
59	1-15 - Adhesive on Plastic	Adhesive / White		None Detected
60	1-16 - Joint Compound	Joint Compound / White		None Detected
61	1-17 - Drywall	Drywall / Off-White	5% Cellulose Fibers	None Detected
62	1-19 - Cellulose Ceiling Tile	Ceiling Tile / White	98% Cellulose Fibers	None Detected
63	1-12 - Glazing	Glazing / Off-White		None Detected
64	1-25 - Cellulose Ceiling Tile	Ceiling Tile / White	65% Cellulose Fibers 15% Fiberglass	None Detected
65	1-26 - Plaster	Rough Coat / Tan		None Detected
		Skim Coat / White		None Detected

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
66	1-27 - Drywall	Drywall / Off-White	5% Cellulose Fibers	None Detected
67	1-28 - Glazing	Glazing / White		None Detected
68	1-29 - Plaster	Rough Coat / Tan		None Detected
69	1-31 - Drywall w/Texture Coating	Drywall / Off-White	5% Cellulose Fibers	None Detected
		Texture / White		None Detected
70	1-32 - Laminate w/Adhesive	Flooring / Blue		None Detected
		Adhesive / Tan		None Detected
71	G1-1 - Glazing	Glazing / Tan		None Detected
72	G1-2 - Asphalt Roofing Shingle	Shingle / Black	20% Cellulose Fibers	None Detected
73	G1-3 - Asphalt Roofing with Mastic	Roofing / Black	15% Cellulose Fibers	None Detected
		Tar / Black		3% Chrysotile
74	G1-4 - Asphalt Roofing with Mastic	Roofing / Black	15% Cellulose Fibers	None Detected
		Tar / Black		None Detected
75	G1-5 - Asphalt Roofing Paper	Felt / Black	65% Cellulose Fibers	None Detected



Collected: Jun 17, 2023

Received: Jun 29, 2023

Reported: Jul 7, 2023

Project Analyst:
 Megan Audia, *Megan Audia*

Date:
 07 - 07 - 2023

Reviewed By:
 David McDonald, PHR *David McDonald*

Date:
 07 - 07 - 2023

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
76	G2-1 - Asphalt Shingle w/Mastic	Shingle / Black	20% Cellulose Fibers	None Detected
		Tar / Black		None Detected
77	G2-2 - Asphalt Shingle w/Mastic	Shingle / Black	20% Cellulose Fibers	None Detected
		Tar / Black		None Detected
78	G2-3 - Asphalt Roofing Paper	Tar Paper / Black	65% Cellulose Fibers	None Detected
79	G2-4 - Asphalt Roofing Paper	Tar Paper / Black	65% Cellulose Fibers	None Detected
80	1-17 - Vermiculite	Vermiculite / Tan		<1% Actinolite
81	1-18 - Vermiculite	Vermiculite / Tan		<1% Actinolite



Collected: Jun 17, 2023

Received: Jun 29, 2023

Reported: Jul 7, 2023

Project Analyst:
 Megan Audia, *Megan Audia*

Date:
 07 - 07 - 2023

Reviewed By:
 David McDonald, PHR *David McDonald*

Date:
 07 - 07 - 2023

Asbestos Analysis Information

Analysis Details	All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.
PLM Analysis	All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Materials with interfering matrix, low asbestos content, or small fiber size may require additional analysis via TEM Analysis.
TEM Analysis	Analysis by TEM is capable of providing positive identification of asbestos type(s) and semi-quantitation of asbestos content.
Definitions	'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.
New York ELAP	Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing. Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Company:

CALEX ENVIRONMENTAL, LLC
 PO BOX 236
 COLEBROOK, NH 03576

N

SHIP: FEDEX - BOX 50
 DATE: 06-29-2023

8087 5310 9820



PAGE 1 OF 6

ASBESTOS



23026251

HMC #

Job Number: BER-22-5A Job Name: 827 WESTERN AVENUE Collector: RONALD GUERIN Email: rguerin@calexenvironmental.com

Date Collected: 6/17/2023 Notes:

Mobile: 6033311963

Sample #	Sample Name	Analysis Type	Volume	TAT	Group #	Pos. Stop
B-1	FURNACE CEMENT	PLM		5 DAY		
B-2	LINOLEUM	PLM		5 DAY		
B-3	LINOLEUM	PLM		5 DAY		
B-4	LINOLEUM	PLM		5 DAY		
E1	ASPHALT SHINGLE	PLM		5 DAY		
E2	ASPHALT ROOFING PAPER	PLM		5 DAY		
E3	ASPHALT SHINGLE	PLM		5 DAY		
E4	ASPHALT ROOFING	PLM		5 DAY		
E5	ASPHALT ROOFING	PLM		5 DAY		
E6	ASPHALT ROOFING SHINGLE	PLM		5 DAY		
E7	ASPHALT ROOFING	PLM		5 DAY		
E8	ROOFING MASTIC	PLM		5 DAY		
E9	ASPHALT SHINGLE W/ MASTIC	PLM		5 DAY		
E10	CEMENTITIOUS SIDING	PLM		5 DAY		

Analysis Type	Description	Available Turn-Around Times
PLM	EPA 600/R-93/116, M-4/82-020	3 Hour, Same Day, 1 Day, 2 Day, 3 Day, 5 Day
PC	EPA Point Count	3 Hour, Same Day, 1 Day, 2 Day, 3 Day, 5 Day
NY	NYSDOH ELAP 198.1, 198.6	1 Day, 2 Day, 3 Day, 5 Day
PCM	NIOSH 7400	Same Day, 1 Day, 2 Day, 3 Day, 5 Day
TEM	TEM Air (AHERA)	1 Day, 2 Day, 3 Day, 5 Day
TEM-C	TEM Bulk (Chatfield)	1 Day, 2 Day, 3 Day, 5 Day

Relinquished by: RONALD GUERIN Date: 6/27/2023 Rcvd By: Jm Date: 6/29/23



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

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 PO BOX 236
 COLEBROOK, NH 03576

Asbestos - Chain of Custody

Form v.101302.5

PAGE **2** OF **6**

HMC #

Job Number: BER-22-5A Job Name: 827 WESTERN AVENUE Collector: RONALD GUERIN Email: rguerin@calexenvironmental.com

Date Collected: 6/17/2023

Notes:

Mobile: 6033311963

Sample #	Sample Name	Analysis Type	Volume	TAT	Group #	Pos. Stop
E11	BUILDING PAPER	PLM		5 DAY		
E12	BUILDING PAPER	PLM		5 DAY		
E13	ASPHALT ROOFING PAPER	PLM		5 DAY		
E14	ASPHALT MASTIC	PLM		5 DAY		
E15	GLAZING	PLM		5 DAY		
E16	ASPHALTIC MASTIC	PLM		5 DAY		
E17	ASPHALTIC MASTIC	PLM		5 DAY		
3-2	PLASTER WITH TEXTURE COATING	PLM		5 DAY		
3-3	GLAZING	PLM		5 DAY		
3-4	PLASTER WITH TEXTURE COATING	PLM		5 DAY		
3-6	PLASTER WITH TEXTURE COATING	PLM		5 DAY		
3-9	GLAZING	PLM		5 DAY		
3-10	RESILIENT FLOORING	PLM		5 DAY		
3-11	RESILIENT FLOORING	PLM		5 DAY		

Analysis Type	Description	Available Turn-Around Times
PLM	EPA 600/R-93/116, M-4/82-020	3 Hour, Same Day,
PC	EPA Point Count	3 Hour, Same Day,
NY	NYSDOH ELAP 198.1, 198.6	1 Day, 2 Day, 3 Day
PCM	NIOSH 7400	Same Day, 1 Day, 2
TEM	TEM Air (AHERA)	1 Day, 2 Day, 3 Day
TEM-C	TEM Bulk (Chatfield)	1 Day, 2 Day, 3 Day, 5 Day

N

SHIP: FEDEX - BOX 50
 DATE: 06-29-2023



ASBESTOS

23026251

Relinquished by: RONALD GUERIN Date: 6/27/2023 Rcvd By: *Jm* Date: 6/29/23

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MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Company:

CALEX ENVIRONMENTAL, LLC

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COLEBROOK, NH 03576

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PAGE 3 OF 6

HMC #

Job Number: BER-22-5A Job Name: 827 WESTERN AVENUE Collector: RONALD GUERIN Email: rguerin@calexenvironmental.com

Date Collected: 6/17/2023 Notes:

Mobile: 6033311963

Sample #	Sample Name	Analysis Type	Volume	TAT	Group #	Pos. Stop
3-13	PLASTER WITH TEXTURE COATING	PLM		5 DAY		
2-1	RESILIENT FLOORING	PLM		5 DAY		
2-2	RESILIENT FLOORING	PLM		5 DAY		
2-4	PLASTER WITH TEXTURE COATING	PLM		5 DAY		
2-5	RESILIENT FLOORING W/ADHESIVE	PLM		5 DAY		
2-6	DRYWALL	PLM		5 DAY		
2-8	MASONITE W/ ADHESIVE	PLM		5 DAY		
2-9	MASONITE W/ ADHESIVE	PLM		5 DAY		
2-10	PLASTER	PLM		5 DAY		
2-11	GLAZING	PLM		5 DAY		
2-12	MASONITE W/ ADHESIVE	PLM		5 DAY		
2-14	GLAZING	PLM		5 DAY		
2-16	PLASTER	PLM		5 DAY		
2-19	PLASTER WITH TEXTURE COATING	PLM		5 DAY		

Analysis Type	Description	Available Turn-Around Times
PLM	EPA 600/R-93/116, M-4/82-020	3 Hour, Se
PC	EPA Point Count	3 Hour, Se
NY	NYSDOH ELAP 198.1, 198.6	1 Day, 2 D
PCM	NIOSH 7400	Same Day
TEM	TEM Air (AHERA)	1 Day, 2 D
TEM-C	TEM Bulk (Chatfield)	1 Day, 2 D

N

SHIP: FEDEX - BOX 50
 DATE: 06-29-2023

ASBESTOS



23026251



Relinquished by: RONALD GUERIN Date: 6/27/2023 Rcvd By: *jm* Date: 6/29/23



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MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Company:

CALEX ENVIRONMENTAL, LLC
 PO BOX 236
 COLEBROOK, NH 03576

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PAGE 4 OF 6

HMC #

Job Number: BER-22-5A Job Name: 827 WESTERN AVENUE Collector: RONALD GUERIN Email: rguerin@calexenvironmental.com

Date Collected: 6/17/2023

Notes: SAMPLE 1-6 COMPOSITE DRYWALL AND JOINT COMPOUND
 SAMPLE 1-11 COMPOSITE DRYWALL AND JOINT COMPOUND

Mobile: 6033311963

Sample #	Sample Name	Analysis Type	Volume	TAT	Group #	Pos. Stop
43 2-21	RESILIENT FLOORING W/ ADHESIVE	PLM		5 DAY		
2-22	DRYWALL	PLM		5 DAY		
2-24	PLASTER	PLM		5 DAY		
2-27	GLAZING	PLM		5 DAY		
2-30	PLASTER WITH TEXTURE COATING	PLM		5 DAY		
2-31	GLAZING	PLM		5 DAY		
1-1	LINOLEUM	PLM		5 DAY		
1-2	RESILIENT FLOORING W/ ADHESIVE	PLM		5 DAY		
1-4	SOUNDPROOFING	PLM		5 DAY		
1-5	GLAZING	PLM		5 DAY		
1-6	DRYWALL W/JOINT COMPOUND	PLM		5 DAY		
1-9	GLAZING	PLM		5 DAY		
1-10	GLAZING	PLM		5 DAY		
56 1-11	DRYWALL W/JOINT COMPOUND	PLM		5 DAY		

Analysis Type	Description	Available Turn-Around Times
PLM	PLM EPA 600/R-93/116, M-4/82-020	3 Hour, Same Day
	PC EPA Point Count	3 Hour, Same Day
	NY NYSDOH ELAP 198.1, 198.6	1 Day, 2 Day, 3 Day
PCM	PCM NIOSH 7400	Same Day, 1 Day
TEM	TEM-A (AHERA)	1 Day, 2 Day, 3 Day
	TEM-C (Chatfield)	1 Day, 2 Day, 3 Day, 5 Day

N
 SHIP: FEDEX - BOX 50
 DATE: 06-29-2023
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 23026251

Relinquished by: RONALD GUERIN Date: 6/27/2023 Rcvd By: *em* Date: 6/29/23



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Company:

CALEX ENVIRONMENTAL, LLC
 PO BOX 236
 COLEBROOK, NH 03576

Asbestos - Chain of Custody

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PAGE **5** OF **6**

HMC #

Job Number: BER-22-5A Job Name: 827 WESTERN AVENUE Collector: RONALD GUERIN Email: rguerin@calexenvironmental.com

Date Collected: 6/17/2023 Notes:

Mobile: 6033311963

Sample #	Sample Name	Analysis Type	Volume	TAT	Group #	Pos. Stop
1-12	RESILIENT FLOORING	PLM		5 DAY		
1-14	ADHESIVE ON PLASTIC	PLM		5 DAY		
1-15	ADHESIVE ON PLASTIC	PLM		5 DAY		
1-16	JOINT COMPOUND	PLM		5 DAY		
1-17	DRYWALL	PLM		5 DAY		
1-19	CELLULOSE CEILING TILE	PLM		5 DAY		
1-23	GLAZING	PLM		5 DAY		
1-25	CELLULOSE CEILING TILE	PLM		5 DAY		
1-26	PLASTER	PLM		5 DAY		
1-27	DRYWALL	PLM		5 DAY		
1-28	GLAZING	PLM		5 DAY		
1-29	PLASTER	PLM		5 DAY		
1-31	DRYWALL W/TEXTURE COATING	PLM		5 DAY		
1-32	LAMINATE W/ ADHESIVE	PLM		5 DAY		

Analysis Type	Description	Available Turn-Around Times
PLM	EPA 600/R-93/116, M-4/82-020	3 Hour, Sar
PC	EPA Point Count	3 Hour, Sar
NY	NYSDOH ELAP 198.1, 198.6	1 Day, 2 Da
PCM	NIOSH 7400	Same Day,
TEM	TEM Air (AHERA)	1 Day, 2 Da
	TEM Bulk (Chatfield)	1 Day, 2 Da

N

SHIP: FEDEX - BOX 50
 DATE: 06-29-2023

ASBESTOS

23026251



Relinquished by: RONALD GUERIN Date: 6/27/2023 Rcvd By: *Jm* Date: 6/29/23



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

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 PO BOX 236
 COLEBROOK, NH 03576

Asbestos - Chain of Custody

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PAGE **6** OF **6**

HMC #

Job Number: BER-22-5A Job Name: 827 WESTERN AVENUE Collector: RONALD GUERIN Email: rguerin@calexenvironmental.com

Date Collected: 6/17/2023 Notes:

Mobile: 6033311963

Sample #	Sample Name	Analysis Type	Volume	TAT	Group #	Pos. Stop
71 G1-1	GLAZING	PLM		5 DAY		
G1-2	ASPHALT ROOFING SHINGLE	PLM		5 DAY		
G1-3	ASPHALT ROOFING WITH MASTIC	PLM		5 DAY		
G1-4	ASPHALT ROOFING WITH MASTIC	PLM		5 DAY		
G1-5	ASPHALT ROOFING PAPER	PLM		5 DAY		
G2-1	ASPHALT SHINGLE W/ MASTIC	PLM		5 DAY		
G2-2	ASPHALT SHINGLE W/ MASTIC	PLM		5 DAY		
G2-3	ASPHALT ROOFING PAPER	PLM		5 DAY		
G2-4	ASPHALT ROOFING PAPER	PLM		5 DAY		
1-17	VERMICULITE	PLM		5 DAY		
81 1-18	VERMICULITE	PLM		5 DAY		

Analysis Type	Description	Available Turn-Around Times
PLM	PLM EPA 600/R-93/116, M-4/82-020	3 Hour,
	PC EPA Point Count	3 Hour,
	NY NYSDOH ELAP 198.1, 198.6	1 Day, 2
PCM	PCM NIOSH 7400	Same D
TEM	TEM-A TEM Air (AHERA)	1 Day, 2
	TEM-C TEM Bulk (Chatfield)	1 Day, 2

N

SHIP: FEDEX - BOX 50
 DATE: 06-29-2023

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23026251



Relinquished by: RONALD GUERIN Date: 6/27/2023 Rcvd By: *Jm* Date: 6/29/23



#23026244

Analysis Report prepared for

Calex Environmental, LLC

110 Main St.
Colebrook, NH 03576

Phone: (603) 237-9399

BER-22-5B
827 Western Ave

Collected: **June 17, 2023**
Received: **June 29, 2023**
Reported: **June 30, 2023**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 1 samples by FedEx in good condition for this project on June 29th, 2023.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

All information provided to Hayes Microbial is confidential information relating to our customers and their clients. We will not disclose, copy, or distribute any information verbally or written, except to those designated by the customer(s). We take confidentiality very seriously. No changes to the distribution list will be made without the express consent of the customer.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

A handwritten signature in black ink that reads "Stephen N. Hayes".

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

#	Sample	Weight (g)	Lead Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
1	TCLP-1 - 827 Western Ave Building Composite	100	<0.50	5.0	0.50



Collected: Jun 17, 2023

Received: Jun 29, 2023

Reported: Jun 30, 2023

Project Analyst:
Samuel Settle, *Samuel Settle*

Date:
06 - 30 - 2023

Reviewed By:
Brian Keith, *Brian Keith*

Date:
06 - 30 - 2023

Lead in Air Analysis	The OSHA Action Level for Lead in Air is 30 ug/m ³ . The OSHA Permissible Exposure Limit for an 8 Hour Time Weighted Average is 50ug/m ³ . Sample Results denoted with a "less than" (<) symbol contain less than 2.00ug total lead, based on a 10mL volume.																
Dust Wipe Lead Analysis	The regulatory guidelines for lead dust by wipe sampling are as follows:																
<table border="1"> <thead> <tr> <th data-bbox="394 435 470 459">Location</th> <th data-bbox="695 435 869 459">EPA Clearance Level</th> <th data-bbox="940 435 1087 459">EPA Hazard Level</th> <th data-bbox="1157 435 1423 459">New York City DOHMH Standard</th> </tr> </thead> <tbody> <tr> <td data-bbox="394 496 491 521">Floors (FL)</td> <td data-bbox="695 496 791 521"><40.0µg/ft²</td> <td data-bbox="940 496 1024 521">10.0µg/ft²</td> <td data-bbox="1157 496 1230 521">5.0µg/ft²</td> </tr> <tr> <td data-bbox="394 558 611 583">Interior Window Sills (SL)</td> <td data-bbox="695 558 791 583"><250.0µg/ft²</td> <td data-bbox="940 558 1037 583">100.0µg/ft²</td> <td data-bbox="1157 558 1241 583">40.0µg/ft²</td> </tr> <tr> <td data-bbox="394 620 569 644">Window Wells (WW)</td> <td data-bbox="695 620 791 644"><400.0µg/ft²</td> <td></td> <td data-bbox="1157 620 1253 644">100.0µg/ft²</td> </tr> </tbody> </table>		Location	EPA Clearance Level	EPA Hazard Level	New York City DOHMH Standard	Floors (FL)	<40.0µg/ft ²	10.0µg/ft ²	5.0µg/ft ²	Interior Window Sills (SL)	<250.0µg/ft ²	100.0µg/ft ²	40.0µg/ft ²	Window Wells (WW)	<400.0µg/ft ²		100.0µg/ft ²
Location	EPA Clearance Level	EPA Hazard Level	New York City DOHMH Standard														
Floors (FL)	<40.0µg/ft ²	10.0µg/ft ²	5.0µg/ft ²														
Interior Window Sills (SL)	<250.0µg/ft ²	100.0µg/ft ²	40.0µg/ft ²														
Window Wells (WW)	<400.0µg/ft ²		100.0µg/ft ²														
The Reporting Limit is 10.00µg Total Pb. Reported results are not corrected for field blanks. Dust wipe area and results are calculated based on area measurements determined by the client.																	
Paint Chip Lead Analysis	The HUD lead guidelines for lead paint chips are 0.50% by weight, 5000 ppm, or 1.0mg/cm ² . The Reporting Limit is 10µg Total Pb.																
Water Lead Analysis	Minimum Reporting Limit: 0.2mg/L lead concentration. EPA Regulatory Limit: 5.0mg/L.																
Soil Lead Analysis	The Federal lead guidelines for lead in soil is 400µg/g (ppm) in play areas, and 1200 µg/g (ppm) in bare soil in the remainder of the yard. The Reporting Limit is 10.0 µg Total Pb.																



APPENDIX C

Photos



827 Western Avenue
Berlin, New Hampshire



Garage 1 (Western Ave access) Left; Garage 2 (Gerrish St. access), Right



Cementitious (Transite) siding and roof designations.

827 Western Avenue
Berlin, New Hampshire



Roof designations and Cementitious (Transite) ACM siding.



Asphaltic Foundation Mastic (typical).



APPENDIX D

Asbestos Demolition/Renovation Notification Form Definitions





Asbestos Demolition/Renovation Notification Form

Air Resources Division/Compliance Bureau
Asbestos Management and Control Program

RSA/Rule: RSA 141-E:4, I and II and Env-A 1800



***Complete all sections of this form in detail.**

***See the attached Directions for Completing Your Asbestos Demolition/Renovation Notification Form.**

I. TYPE OF NOTIFICATION (Check One)			
<input checked="" type="checkbox"/> New Notification	<input type="checkbox"/> Revised Notification	<input type="checkbox"/> Cancelled Project	Fee Enclosed: \$

II. PROJECT TYPE (Check All That Apply)	
<input checked="" type="checkbox"/> Demolition <input type="checkbox"/> Renovation <input type="checkbox"/> Pickup and Disposal <input type="checkbox"/> *Emergency	For Official Use, Do not write in this box
<i>*For emergency projects, describe the emergency on a supplemental sheet. Attach any government order requiring the work.</i>	
<i>*Contact the department to obtain waiver # for inclusion on this form.</i> Waiver #: _____ Date Obtained: _____	

III. BUILDING INFORMATION			
Building/Site Name 827 Western Avenue			
Street Address 827 Western Avenue	Town/City Berlin	State NH	ZIP Code 03576
Year Constructed Circa 1892	Size (ft ²) +/-2,340 Ft2 (3) floors	Number of Floors 3	
Current Use Abandoned		Prior Use Residential multi-family	

IV. ACM INSPECTION AND WORK DETAILS				
Asbestos Supervisor to perform abatement: _____ Cert #: <u>AS</u>				
Asbestos Inspection Conducted by: <u>Calex Environmental, LLC, Ronald Guerin</u> Date: <u>6/8/2023</u>				
Type of inspection (Check all that apply): <input checked="" type="checkbox"/> Visual <input checked="" type="checkbox"/> Analytical Testing <input type="checkbox"/> No ACM Present				
Asbestos Abatement	Demolition	Weekly Work Schedule		
Start Date: _____	Start Date: _____	Days of Work: _____		
End Date: _____	End Date: _____	Time of Day of Work: _____ to _____		
ACM Present		ACM to be Abated		List Types of Asbestos and Location in Building
Friable	Non-Friable	Friable	Non-Friable	
ft	ft	ft	ft	
ft ²	+/- 2,200 ft ²	ft ²	ft ²	
ft ³	ft ³	ft ³	ft ³	
Briefly describe work practices to be employed. Attach additional pages if needed.				

asbestos@des.nh.gov

Phone (603) 271-1373; Fax (603) 271-7053
PO Box 95, Concord, NH 03302-0095

V. PROPERTY OWNER INFORMATION			
Owners Name			
Owners Mailing Address	Town/City	State	ZIP Code
Owner Contact			
Contact's Phone	Email (Optional)		

VI. ABATEMENT CONTRACTOR INFORMATION			
Company Name			
Company Mailing Address	Town/City	State	ZIP Code
Company Contact	Phone Email (Optional)		

VII. DEMOLITION CONTRACTOR INFORMATION			
Company Name			
Company Mailing Address	Town/City	State	ZIP Code
Company Contact	Phone Email (Optional)		

VIII. ACM WASTE TRANSPORTER				
Transporter Name	Mailing Address	Town/City	State	ZIP Code
Transporter Contact Name	Phone Number			

IX. FINAL WASTE DISPOSAL FACILITY				
Facility Name	Street Address	Town/City	State	ZIP Code
Phone Number				

X. I Certify That the Above Information Is Correct	
Signature	Print Name
Title	Date

Asbestos Definitions and Classifications

ACM	(Asbestos Containing Material) – Asbestos product containing more than 1% asbestos. ACM must be disposed of as hazardous material. Note: Federal OSHA controls materials containing any amount of asbestos.
ACBM	(Asbestos Containing Building Material) – AHERA term for material containing more than 1% asbestos in or on interior structural members or other structural components. Includes covered walkways, porticos and exterior HVAC TSI.
PACM	(Presumed Asbestos Containing Material) OSHA considers all TSI and surfacing materials installed prior to 1980 to be ACM unless proven otherwise.
FRIABLE	Asbestos Containing Material that can be crumbled pulverized or reduced to powder by hand pressure when dry.

Categories of Asbestos Used BY EPA AHERA and OSHA

TSI	(Thermal System Insulation) - “Thermal system insulation (TSI)” means ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain. “Thermal system insulation ACM” is thermal system insulation which contains more than 1% asbestos.
SURFACING (usually mixed on site at time of application)	“Surfacing material” means material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes). “Surfacing ACM” means surfacing material which contains more than 1% asbestos. NOTE: OSHA does not classify skim coat, taping mud, floor tile mastic, stucco, leveling compound, and hard wall plasters or wall texturing (including textured paint) as surfacing.
MISC.	All other ACM, including taping mud, floor tile mastic, stucco, leveling compound, and hard wall plasters or wall texturing as surfacing.

NESHAPS Categories for Asbestos

Category I	Cat I Non-friable Asbestos Containing Material (ACM) refers to asbestos containing packing, gaskets, resilient floor covering, Galbestos, and asphalt roofing products containing more than 1% asbestos.
Category II	Cat II Non-friable Asbestos-Containing Material (ACM) is any material that is not Cat I that contains greater than 1% asbestos.
RACM	“Regulated Asbestos-Containing Material.” – Friable Asbestos containing material (ACM) or a Category I non-friable ACM that has become friable OR a Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading OR Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.