

ADDENDUM NO. 2

TOWN OF SPENCER – LAKE STREET SCHOOL REMOVAL PROJECT

To: Prospective Bidders and Others
From: William J. Cundiff, P.E. Superintendent, Spencer Office of Utilities & Facilities
Date: July 14, 2023
Re: ADDENDUM NO. 2 – LAKE STREET SCHOOL REMOVAL PROJECT

The following contract amendments are hereby incorporated into the above referenced Contract Bid Documents dated June 8, 2023, including Addendum No. 1, dated June 21, 2023.

All bidders should acknowledge it in Paragraph B on the Bid Form (Document 00 31 00, FORM FOR GENERAL BID). Failure to do so could result in the rejection of your bid.

This Addendum consists of three (3) pages plus an attachment consisting of revised Document 00 01 10, TABLE OF CONTENTS; revised Document 00 23 00, EXISTING CONDITIONS; revised Document 00 31 00, BID FORM; and new issued Section 01 022, UNIT PRICES; and an updated report for Appendix A [one hundred twenty one (121) pages plus cover page].

BID DUE DATE

Updated General Bid Date: **July 20, 2023, at 2:00 P.M. – No Change.**

GENERAL INFORMATION

1. **Existing drawings available from the Town of Spencer:** Below are links to all available existing drawings that the Town has in their records for informational purposes only.

- 1997 – Lake Street School & Maple Street School Building Plans See: <http://tinyurl.com/1997-LakeStSchoolPlans>
- 1977 – Lake Street School Addition Plans See: <http://tinyurl.com/1977-LakeStSchoolAddition>
- 1956 – Lake Street School Site Plan See: <http://tinyurl.com/1956-LakeStSchoolSitePlan>

2. **Additional clarification on utilities:**

The link referenced in Addendum No. 1 for the requirements of road opening associated with the gas and sewer line capping can be found at the following link:

- <https://www.spencerma.gov/highway-department/pages/road-opening-driveway-trench-street-occupancy-permits>

As per Addendum No. 1, electrical service shall be coordinated by the Contractor with the local service provider and the water line will be interrupted with a temporary meter by the Town; Refer to Addendum No. 1 for additional information.

3. **Unit Price Section:** Refer to attached unit price section which is added to the Project. Refer to the revised Report [Appendix A - HAZARDOUS MATERIALS SURVEY REPORT] included as part of this Addendum.
4. **Hazardous Materials Survey and Quantities:** refer to attached updated Hazardous Materials Survey Report as revised and re-issued by Partners 14 July 2023 included as part of this Addendum. Refer to the revised Report [Appendix A - HAZARDOUS MATERIALS SURVEY REPORT].

PROJECT MANUAL

INTRODUCTORY INFORMATION

Document 00 01 10 - TABLE OF CONTENTS

1. Document 00 01 10, TABLE OF CONTENTS (pages 00 01 10-1 through 3) is revised. A copy of this revised Document, marked "Revised July 14, 2023 (Addendum No. 2)", is attached to and made part of this Addendum.

PROCUREMENT REQUIREMENTS

Document 00 23 00 - EXISTING CONDITIONS

1. Document 00 23 00, EXISTING CONDITIONS (pages 00 23 00-1 through 3) is revised. A copy of this revised Document, marked "Revised July 14, 2023 (Addendum No. 2)", is attached to and made part of this Addendum. Additional information has been added to this Document which references existing drawings available from the Town of Spencer via the indicated links.

Document 00 31 00 - FORM FOR GENERAL BID

1. Document 00 31 00 - FORM FOR GENERAL BID (pages 00 31 00-1 through 7) is revised. A copy of this revised Document, marked "Revised July 14, 2023 (Addendum No. 2)", is attached to and made part of this Addendum. Additional information has been added to include Unit Price Schedule for asbestos abatement work to correlate to Appendix A Report. Bidders shall submit bid of this revised FORM FOR GENERAL BID.

SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS

Section 01 22 00 - UNIT PRICES

1. Section 01 22 00, UNIT PRICES (pages 01 22 00-1 through 4) is issued. A copy of this newly issued Section, marked "Issued July 14, 2023 (Addendum No. 2)", is attached to and made part of this Addendum. This Section is included to correlate with the requested unit prices included in the BID FORM.

APPENDICES

Appendix A – HAZARDOUS MATERIALS SURVEY REPORT

1. Appendix A – HAZARDOUS MATERIALS SURVEY REPORT has been updated. Refer to revised Report (121 pages plus cover sheet, Revised July 14, 2023) attached to and made part of this Addendum. Additional information has been incorporated into this report based on additional work conducted in June 2023.

Prepared by:

William Cundiff, P.E.
Superintendent
Town of Spencer
Utilities and Facilities Office
wcundiff@spencerma.gov

DOCUMENT 00 01 10

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Document 00 01 05	Consultant Pages	00 01 05-1 through 2	06/08/23
Document 00 01 10	Table of Contents	00 01 10-1 through 3	06/08/23
Document 00 01 15	List of Drawings	00 01 15-1	06/08/23
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<u>PROCUREMENT REQUIREMENTS</u>			
Document 00 02 00	Invitation to Bid	00 02 00-1 through 6	06/08/23
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<u>APPENDICES</u>			
Appendix A HAZARDOUS MATERIALS SURVEY REPORT (prepared by Partner Assessment Corporation dba Endpoint, LLC) [Revised Report included as part of Addendum No. 2, dated July 14, 2023]	(121 pages + cover)	06/08/23	07/14/23

END OF TABLE OF CONTENTS

DOCUMENT 00 23 00

EXISTING CONDITIONS

PART 1 - GENERAL

1.00 RELATED DOCUMENTS

- A. The PROCUREMENT AND CONTRACTING REQUIREMENTS, and applicable parts of DIVISION 01 - GENERAL REQUIREMENTS, as listed in the Table of Contents, shall be included in and made a part of this Section.

1.01 INFORMATION NOT GUARANTEED

- A. Information on the Drawings and in the Project Manual relating to existing conditions of building and structures is from the best sources presently available. Such information is furnished only for the information and convenience of the Contractor, and the accuracy or completeness of this information is not guaranteed.

1.02 EXISTING CONDITIONS

- A. Coordinate and comply with requirements regarding use of the site, buildings, access, dumpster locations, utilities, and related facilities, as agreed to between the Owner and the Contractor.
- B. Information on existing conditions, such as existing building dimensions, existing building construction and similar information, which is bound with the Contract Documents or otherwise made available to the Contractor was obtained by the Owner for use by the Architect in the design of the Project.
 - 1. Accuracy and Completeness: The Owner and Architect do not warrant or contend that this information is complete or accurate. The Contractor may use this information at his sole risk and judgment.
 - 2. Concealed Conditions: No claim for extra cost or extension of time may be made because of the use of this information by the Contractor, except as provided in the Conditions of the Contract regarding *Concealed Conditions*. The Contractor may obtain additional information on existing conditions at his sole expense, if prior approval is obtained from the Owner.
- C. Contractor's Responsibilities:
 - 1. The Contractor shall become thoroughly familiar with the existing information and shall carefully examine the existing record information prior to construction including attachment, cutting, and drilling to avoid accidental damage to existing conditions including utilities and to avoid cutting structure not specifically indicated to be cut.
 - 2. The Contractor shall examine existing building and structure to verify existing conditions including building and elevations, dimensions, and locations and conditions affecting proposed renovations and improvements.

1.03 ASBESTOS-CONTAINING MATERIALS AND OTHER HAZARDOUS MATERIALS

- A. The Owner has taken steps to identify asbestos and hazardous materials from the work area of this contract. This was done to notify all parties and to comply with EPA NESHAP inspection and notification requirement. Abatement of asbestos-containing materials and other hazardous materials that may be disturbed is part of the planned work. Documentation of the abatement will be provided to interested parties including the Architect and General Contractor.
- B. Asbestos-Containing Materials (ACM) Survey: The Owner engaged a Hazardous Materials Consultant (Partner Assessment Corporation dba Endpoint, LLC) under separate contract to prepare an Asbestos Survey report of existing building.
1. Refer to Appendix A – HAZARDOUS MATERIALS SURVEY REPORT, **dated June 8, 2023 and Revised July 14, 2023. A copy of the revised Report dated Revised July 14, 2023 is included as part of Addendum No. 2.**
- C. Asbestos Remediation: The Owner engaged an Environmental Consultant, (Partner Assessment Corporation dba Endpoint, LLC) under separate contract to prepare documentation for ACM Abatement/Removal and for Lead-Based Paint Coated Building Materials.
1. Refer to Specifications Section 02 08 00, HAZARDOUS MATERIAL ABATEMENT SPECIFICATION ASBESTOS/UNIVERSAL WASTE.
- D. Under this Contract, the staff of the General Contractor and its Subcontractors will be required to comply with the OSHA Asbestos Standard, Section 1926.1101(k)(9)(vi).
1. This standard requires workers who may come into contact with but not disturb asbestos (Class IV work) to have attended a 2-hour asbestos awareness course.
 2. During the course of the project, some additional asbestos containing materials may require abatement. For example, if hidden asbestos is found inside cavities or if the path for routing building utilities is altered, more abatement may be necessary. In these cases, all parties including Contractors and Architect shall immediately notify the Owner of the location of known or suspect asbestos-containing materials or other hazardous materials so that abatement can take place without delay to schedule or harm to occupants and workers.

1.04 LAKE STREET SCHOOL – EXISTING BUILDING AND SITE PLANS

- A. Existing drawings available from the Town of Spencer: Below are links to all available existing drawings for Lake Street School and Lake Street School site that the Town has in their records. This information is provided for informational purposes only.
- 1997 – Lake Street School & Maple Street School Building Plans See: <http://tinyurl.com/1997-LakeStSchoolPlans>
 - 1977 – Lake Street School Addition Plans See: <http://tinyurl.com/1977-LakeStSchoolAddition>
 - 1956 – Lake Street School Site Plan See: <http://tinyurl.com/1956-LakeStSchoolSitePlan>

PART 2 - PRODUCTS

Not Used.

PART 3 – EXECUTION

Not Used.

END OF DOCUMENT

DOCUMENT 00 31 00
FORM FOR GENERAL BID

Bid of _____ (hereinafter called "Bidder")*

a corporation, organized and existing under the laws of the State of _____

a partnership

a joint venture

an individual doing business as _____

To the **TOWN OF SPENCER, MASSACHUSETTS** (hereinafter called "Owner").

A. The undersigned Bidder, in compliance with your invitation for bids for the Project known as

TOWN OF SPENCER – LAKE STREET SCHOOL REMOVAL PROJECT
17 Lake Street
Spencer, Massachusetts 01562

having examined the plans and specifications and related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the contract documents and the plans and specifications within the time set forth below, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents, of which this bid is a part.

The Bidder hereby agrees to commence work on or before the date to be specified in written "Notice to Proceed" of the Owner, and to fully complete the project within one hundred twenty (120) consecutive calendar days thereafter.

The Bidder further agrees to pay as liquidated damages the sum of Five Hundred Dollars (\$500.00) for each consecutive calendar day thereafter that the work is not complete as provided in the Contract.

B. ADDENDA: This Bid includes Addenda numbered _____

C. CONTRACT PRICE: The proposed Contract Price is _____

_____ Dollars (\$ _____).

* Specify corporation, partnership or individual as applicable.

- D. ALTERNATES: [Not Applicable].
- E. SUBDIVISION OF CONTRACT PRICE: [Not Applicable].
- F. SUB-BIDS: [Not Applicable].
- G. SCHEDULE OF UNIT PRICES: ~~[Not Applicable]~~. **Should certain additional work be required, or should the quantities of certain classes of work be increased or decreased from those required by the Contract Documents, by authorization of the Owner, the below unit prices shall, at the option of the Owner, be the basis of payment to the Contractor or credit to the Owner, for such increase or decrease in the work. The Unit Prices shall represent the exact net amount per unit to be paid the Contractor (in the case of additions or increases) or to be refunded the Owner (in the case of decreases). No additional adjustment will be allowed for overhead, profit, insurance, or other direct or indirect expenses of the Contractor or Subcontractors.**

<u>Description</u>	<u>Quantity in Base Bid</u>	<u>Unit Prices (Add or Deduct)</u>	
1. Unit Price No. 1 – Floor Tile, 9 in. x 9 in., including Mastic, per square foot	4,660 sq. ft.	\$ _____ Add	\$ _____ Deduct
2. Unit Price No. 2 – Floor Tile, 12 in. x 12 in., including Mastic, per square foot	20,900 sq. ft.	\$ _____ Add	\$ _____ Deduct
3. Unit Price No. 3 – Black Slate Tile, 9 in. x 9 in., including Tan Carpet Mastic and Black Mastic, per square foot	300 sq. ft.	\$ _____ Add	\$ _____ Deduct
4. Unit Price No. 4 – Black Faux Marble Tile, 9 in. x 9 in., including Black Mastic, per square foot	250 sq. ft.	\$ _____ Add	\$ _____ Deduct
5. Unit Price No. 5 – Bathroom Floor Tile, including Mortar Setting Bed, and Grout, per square foot	1,500 sq. ft.	\$ _____ Add	\$ _____ Deduct
6. Unit Price No. 6 – Tan Rubberized Floor Tread, including Black Mastic, per square foot	100 sq. ft.	\$ _____ Add	\$ _____ Deduct
7. Unit Price No. 7 – Tan and White White Cove Base, 6 in. with Brown Mastic and Tan Mastic, per linear foot	330 lin. ft.	\$ _____ Add	\$ _____ Deduct

<u>Description</u>	<u>Quantity in Base Bid</u>	<u>Unit Prices (Add or Deduct)</u>	
8. Unit Price No. 8 – Black Cove Base, 4 in. with Brown Mastic, per linear foot	300 lin. ft.	\$ _____ Add	\$ _____ Deduct
9. Unit Price No. 9 – Yellow Carpet Mastic with Residual Black Mastic, per square foot	250 sq. ft.	\$ _____ Add	\$ _____ Deduct
10. Unit Price No. 10 – Popcorn Texture Ceiling, per square foot	16,000 sq. ft.	\$ _____ Add	\$ _____ Deduct
11. Unit Price No. 11 – Black Weatherization Coating, per square foot	12,500 sq. ft.	\$ _____ Add	\$ _____ Deduct

H. COMMENCEMENT OF WORK AND DATES FOR SUBSTANTIAL AND FINAL COMPLETION:

1. Commencement of Work: The Bidder hereby agrees to commence work under this Contract on or before a date to be specified in written "Notice to Proceed" issued by the Owner, and to thereafter diligently and continuously carry on the Work.
2. Substantial Completion Date: The undersigned agrees to substantially complete the Work within 105 consecutive calendar days from receipt of Notice to Proceed.
3. Final Completion Date: The undersigned agrees to a final completion of the Contract Work within 120 consecutive calendar days from receipt of Notice to Proceed.

I. LIQUIDATED DAMAGES:

1. Liquidated Damages shall be Five Hundred Dollars (\$500.00) per day per requirements of Document 00 80 00, SUPPLEMENTARY CONDITIONS.

J. EXECUTION OF CONTRACT AND BONDS:

1. The undersigned agrees that, if he is selected as General Contractor, he will within five (5) days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the Awarding Authority, execute a Contract in accordance with the terms of this Bid and furnish a Performance Bond and also a Labor and Materials or Payment Bond, each of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the Awarding Authority and each in the sum of the Contract Price, the premiums for which are to be paid by the General Contractor and are included in the Contract Price.

K. BIDDER'S CERTIFICATIONS:

1. The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that he will comply fully with all laws and regulations applicable to awards made subject to MGL Section forty-four A.
2. The undersigned further certifies that all employees to be employed at the work site have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least ten (10) hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to award of contracts subject to MGL Section 44F.
3. The undersigned bidder hereby certifies, under the pains and penalties of perjury, that the foregoing bid is based upon the payment to laborers to be employed on the project of wages in an amount no less than the applicable prevailing wage rates established for the project by the Massachusetts Department of Labor and Workforce Development, Division of Occupational Safety. The undersigned bidder agrees to indemnify the Awarding Authority for, from and against any loss, expense, damages, actions or claims, including any expense incurred in connection with any delay or stoppage of the project work, arising out of or as a result of (1) the failure of the said bid to be based upon the payment of the said applicable prevailing wage rates or (2) the failure of the bidder, if selected as the contractor, to pay laborers employed on the project the said applicable prevailing wage rates.
4. The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the Commonwealth of Massachusetts General Laws or any rule or regulations promulgated thereunder.
5. The undersigned further certifies that he has reviewed the requirements of the Contract Documents regarding site safety, OSHA Standards, specified safety provisions included in the Project Manual.
6. The undersigned further certifies that he has reviewed the requirements of the Contract Documents regarding site safety and will as part of the requirements of this Contract after award of Contract submit to Owner and Architect an acceptable OSHA-approved Safety Plan for this Contract.
7. Pursuant to M.G.L. CH. 62C, Sec 49A, I certify under the penalties of perjury that I have filed all state tax returns and paid all State Taxes required under law.
8. The Bidder understands that all bids for this project are subject to the applicable bidding laws of the Commonwealth of Massachusetts, including General Laws Chapter 149 and Chapter 30, Section 39M, as amended.
9. The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.
10. The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids.

- 11. Bid security is attached in the sum of five percent (5%) of the total bid in accordance with the conditions of Document 00 10 00, INSTRUCTIONS TO BIDDERS. The bid security may become the property of the Owner in the event the contract and bond are not executed within the time set forth above.
- 12. The undersigned offers the following information as evidence of his qualifications to perform the work as bid upon according to all the requirements of the plans and specifications.

- a. Have been in business under present name for _____ years.
- b. The names and addresses of all persons interested in the bid (if made by a partnership or corporation) as principals, are as follows:

(attach supplementary list if necessary)

- c. The bidder is requested to state below what work of a similar character to that included in the proposed contract he has done, and give references that will enable the Owner to judge his experience, skill and business standing (add supplementary page if necessary).

Completion Date	Project Name	Contract Amount	Design Engineer	Reference Name	Telephone No.
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- 1). _____
- 2). _____
- 3). _____
- 4). _____
- 5). _____
- 6). _____

- d. Bank reference _____
(Name)

(Bank)

(Address)

(Telephone No.)

- L. Pursuant to M.G.L. CH. 62C, Sec. 49A, I certify hereby in writing, under penalties of perjury, that the within named Bidder/Contractor has complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting of child support.
- M. The undersigned Bidder hereby certifies under penalties of perjury, as follows: (1) that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.
- N. The undersigned certifies under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.
- O. The undersigned bidder hereby certifies, under pains and penalties of perjury, that the foregoing bid is based upon the payment to laborers to be employed on the project of wages in an amount no less than the applicable prevailing wage rates established for the project by the Massachusetts Department of Labor and Workforce Development. The undersigned bidder agrees to indemnify the awarding authority for, from and against any loss, expense, damages, actions or claims, including any expense incurred in connection with any delay or stoppage of the project work arising out of or as a result of (1) the failure of the said bid to be based upon the payment of the said applicable prevailing wage rates or (2) the failure of the bidder, if selected as the contractor, to pay laborers employed on the project the said applicable prevailing wage rates.

Respectfully submitted:

By: _____
(Signature)

Date: _____

(Type Name of Bidder)

(Title)

(Business Address)

(City and State)

(Telephone Number)

END OF DOCUMENT

SECTION 01 22 00

UNIT PRICES

PART 1 - GENERAL

1.00 RELATED DOCUMENTS

- A. The PROCUREMENT AND CONTRACTING REQUIREMENTS, and applicable parts of DIVISION 01 - GENERAL REQUIREMENTS, as listed in the Table of Contents, shall be included in and made a part of this Section.

1.01 SUMMARY

- A. This Section covers those items for which indefinite quantities can be expected and, therefore, pre-agreed prices per unit of work are established as means to determine adjustments to the Contract Price after actual quantities are determined.

1.02 RELATED REQUIREMENTS

- A. Refer to Document 00 51 00, AGREEMENT for limitations.
- B. Examine Contract Documents for requirements that affect work of this Section. Other Specification Sections that directly relate to work of this Section include, but are not limited to:
 - 1. Document 00 31 00, FORM FOR GENERAL BID.
 - 2. Section 02 28 20, ASBESTOS REMEDIATION.

1.03 ADDITIONAL REQUIREMENTS

- A. Should additional items of work to those listed herein occur, with a need for adjustments to the contract price, the supplemental unit prices for such categories of work shall be as stated herein.
 - 1. The Owner may choose not to approve any or all unit prices prior to Award of the Contract if it deems the Unit Price unreasonable. In this case, the change order process described in the General Conditions, and other Sections, will be used for Work described in the Unit Price Schedule, when any change of the base contract scope is required.
- B. Stated unit prices shall cover all costs, and the prices given shall represent the exact amount per unit to be paid the Contractor (in the case of additions or increases) or to be refunded the Owner (in the case of decreases) or not charged in the Contractor's Application for Payment. No additional adjustment will be allowed for overhead, profit, insurance, compensation insurance or other direct or indirect expenses of Contractor or Subcontractors. Except as otherwise provided in the Contract, there shall be no adjustment for inflation or other indirect cause in unit prices.

- C. No allowance will be made for any increased expenses, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor resulting either directly or indirectly from the adjustment of work scope throughout the use of unit prices, or from elimination or complete omission of items, or from unbalanced allocation among the contract items of overhead expense on the part of the Contractor and subsequent loss of reimbursement therefore, or from any other cause.
- D. Prior to commencing removal of materials or placement of materials or other work set forth in the schedule of unit prices as unit price items, the Contractor shall notify the Architect and Contractor in sufficient time to permit proper measurements to be taken on behalf of the Owner. Only quantities which have been approved in writing by the Architect will be considered in the determination of adjustment to the Contract Sum on the unit price basis.
- E. Performance of work which is not required under the Contract Documents or which is not authorized by change order or other directive of the Architect, whether or not such work items are set forth hereunder as a unit price item, shall not be considered cause for any extra payment on account of the Contract. The Contractor will be held fully responsible for such unauthorized work, including the performance of all corrective measures required.
- F. Refer to individual Specification Sections for further description of construction activities requiring the establishment of unit prices.

1.04 QUANTITIES AND COST ADJUSTMENTS

- A. Refer to individual Specification Sections for methods of measurement and payment for unit prices. As soon as the work involved in each unit cost item has been completed, submit documentation to establish the actual quantities provided. Submit to the Architect for review and issuance of Change Order.
- B. Change Order amount for each unit cost item will be based on actual quantities multiplied by the unit cost. This unit cost includes all mark-ups applicable taxes, overhead, and profit as described below.

1.05 UNIT PRICES

- A. Should certain additional work be required or should the quantities of certain classes of work be increased or decreased from those required by the Contract Documents, by authorization of the Owner, the below unit prices shall, at the option of the Owner, be the basis of payment to the Contractor or credit to the Owner, for such increase or decrease in the work. The Unit Prices shall represent the exact net amount per unit to be paid the Contractor (in the case of additions or increases) or to be refunded the Owner (in the case of decreases). No additional adjustment will be allowed for overhead, profit, insurance, or other direct or indirect expenses of the Contractor or Subcontractors.

<u>Description</u>	<u>Quantity in Base Bid</u>	<u>Unit Prices (Add or Deduct)</u>	
1. Unit Price No. 1 – Floor Tile, 9 in. x 9 in., including Mastic, per square foot	4,660 sq. ft.	\$ _____ Add	\$ _____ Deduct

<u>Description</u>	<u>Quantity in Base Bid</u>	<u>Unit Prices (Add or Deduct)</u>	
2. Unit Price No. 2 – Floor Tile, 12 in. x 12 in., including Mastic, per square foot	20,900 sq. ft.	\$ _____ Add	\$ _____ Deduct
3. Unit Price No. 3 – Black Slate Tile, 9 in. x 9 in., including Tan Carpet Mastic and Black Mastic, per square foot	300 sq. ft.	\$ _____ Add	\$ _____ Deduct
4. Unit Price No. 4 – Black Faux Marble Tile, 9 in. x 9 in., including Black Mastic, per square foot	250 sq. ft.	\$ _____ Add	\$ _____ Deduct
5. Unit Price No. 5 – Bathroom Floor Tile, including Mortar Setting Bed, and Grout, per square foot	1,500 sq. ft.	\$ _____ Add	\$ _____ Deduct
6. Unit Price No. 6 – Tan Rubberized Floor Tread, including Black Mastic, per square foot	100 sq. ft.	\$ _____ Add	\$ _____ Deduct
7. Unit Price No. 7 – Tan and White White Cove Base, 6 in. with Brown Mastic and Tan Mastic, per linear foot	330 lin. ft.	\$ _____ Add	\$ _____ Deduct
8. Unit Price No. 8 – Black Cove Base, 4 in. with Brown Mastic, per linear foot	300 lin. ft.	\$ _____ Add	\$ _____ Deduct
9. Unit Price No. 9 – Yellow Carpet Mastic with Residual Black Mastic, per square foot	250 sq. ft.	\$ _____ Add	\$ _____ Deduct
10. Unit Price No. 10 – Popcorn Texture Ceiling, per square foot	16,000 sq. ft.	\$ _____ Add	\$ _____ Deduct
11. Unit Price No. 11 – Black Weatherization Coating, per square foot	12,500 sq. ft.	\$ _____ Add	\$ _____ Deduct

1. The unit prices as requested herein shall include their pro-rata share of all cost for overhead, profit, bond, labor, materials and equipment costs. Any unit price proposal that contains a unit price that is unduly high or low may be rejected as unbalanced, and thereby affect the total cost proposal of this contract. The Unit Prices shall represent the exact net amount per unit to be paid the Contractor (in the case of additions) or to be refunded the Owner (in the case of decreases).
- C. The above unit prices shall include all labor, materials, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for. Changes shall be processed in accordance with the provisions of the Contract governing Changes in the Work.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

PARTNER



HAZARDOUS MATERIALS SURVEY REPORT

FORMER LAKE STREET SCHOOL
17 LAKE STREET
SPENCER, MA 01562

June 8, 2023
Revised: July 14, 2023
Partner Project No. 22445977



Prepared for:

CONTEXT STUDIOS, LLC.
3 Lanes End
Framingham, MA 01702

June 8, 2023
Revised: July 5, 2023

Denis Ingham
Context Studios, LLC.
3 Lanes End
Framingham, MA 01702

Subject: Hazardous Materials Survey Report
Former Lake Street School
17 Lake Street
Spencer, MA 01562
Partner Project No. 22445977

Dear Mr. Ingham,

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Hazardous Materials Survey* of the abovementioned address (the "subject property"). This survey was performed in general conformance with the scope and limitations as detailed in our fee proposal.

This survey included a site reconnaissance as well as sampling and analysis. An assessment was conducted, conclusions stated, and recommendations outlined, as necessary.

We appreciate the opportunity to provide environmental services to Context Studios, LLC. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (860) 422-0803.

Sincerely,

Partner Engineering and Science, Inc.



Ray Lavery
Sr. Project Manager

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APPENDICES

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1.0 INTRODUCTION

1.1. Property Description

Address:	17 Lake Street, Spencer, MA 01562
Nature of Use:	Vacant Elementary/Middle School
Number of Buildings:	1 (One) – 2 Sections (Built 1956, 1977)
Number of Floors:	2 (Two)
Building Square Footage (SF):	44,700 SF
Surveyed By:	Jackie Barr, Asbestos Inspector (AI900989) Tristan Stetson, Asbestos Inspector (AI901053)
Assessment Date/Time:	February 24 th & 27 th , 2023 June 26 th , 2023 July 7 th , 2023

1.2. Purpose and Scope

The purpose of this hazardous materials survey (survey) was to sample and analyze suspected asbestos-containing materials (ACM), suspected polychlorinated biphenyls (PCBs), and suspected lead-based paint (LBP) which could present an exposure risk during potential renovation activities in the following buildings:

- Original Lake Street School
- Newer Addition added in 1977.

Partner also conducted a visual inspection to review and identify current and/or past evidence of hydraulic lifts, mercury-containing equipment, fluorescent lights and ballasts, PCB- and chlorofluorocarbons (CFCs)-containing equipment, and other regulated materials that may be present in the buildings. The suspect materials sampled during the survey were limited to accessible areas within the interior and exterior of the building.

It should be noted that PCBs were not identified in the building materials at the property.

1.3. Methodology

ASBESTOS

Suspect ACMs were sampled according to the guidelines set forth in 40 CFR Part 763, and later analyzed using the Polarized Light Microscopy (PLM) method in accordance with the EPA reference method 600/R-93/116 for Determination of Asbestos in Bulk Building Materials.

The United States Environmental Protection Agency (USEPA) as set forth in 40 CFR 763, defines a homogeneous area as "an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture." The regulation requires that a minimum number of representative samples be collected from each homogeneous area. If asbestos is

identified in any samples from a homogeneous area, the entire homogeneous area is considered to contain asbestos.

Classification

ACM is typically classified as surfacing, thermal systems insulation, or miscellaneous, as defined below:

Surfacing – Material that is sprayed-on, troweled-on or otherwise applied to surfaces. Examples include acoustical plaster on ceilings, fireproofing on structural members, or similar applications for acoustical, fireproofing, and other purposes.

Thermal Systems Insulation – Materials applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain.

Miscellaneous – All other material including flooring, mastics, caulking, etc.

Evaluation of Condition

An assessment of the condition of ACM can be useful in deciding how to manage those materials. The ACM most likely to release asbestos fibers are those which are in a friable state. The definition of friable is any material, when dry, that is capable of being crumbled, pulverized or reduced to powder by hand pressure (40 CFR 763). Non-friable sources of asbestos are materials containing cement or asphaltic binder that may become friable and release fibers if the sources are exposed to actions such as abrasion, drilling, cutting, fracturing or hammering. Non-friable sources of asbestos do not typically pose a significant exposure risk if they remain in good condition and are not disturbed. During renovation activities or when subject to abrasive action, non-friable sources may become friable and thus may pose an exposure risk.

EPA protocols were used in the evaluation of the condition of observed materials as listed below:

- Good condition = 1% or less damage for both distributed and localized damage.
- Damaged = >1% to 10% damage if distributed or >1% to 25% damage if localized.
- Significantly Damaged= >10% damage if distributed or >25% damage if localized.

Homogenous Areas

The US EPA defines a homogeneous area (HA) as *"an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture"* (40 CFR 763). If asbestos is identified in any samples from a homogeneous area, the entire homogeneous area is considered to contain asbestos. The number of samples required per HA to determine if that HA is a non-ACM is outlined in 40 CFR §763.86 *Sampling*.

NESHAP Categorization

If a sampled material is confirmed to be asbestos-containing or is assumed to be ACM by the accredited inspector, that material will be categorized according to whether its disturbance is regulated. The Asbestos NESHAP (40 CFR 61, Subpart M) defines confirmed or suspect ACMs in three (3) categories Regulated Asbestos-Containing Material (RACM), Category I and Category II non-friable ACM.

- RACM - Friable ACM; Category I non-friable ACM that has become friable; Category I ACM that will be or has been subjected to sanding, grinding, cutting or abrading; or Category II non-friable 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 operations regulated by the Asbestos NESHAP regulation.
- Category I Non-Friable - ACM packings, gaskets, resilient floor covering and asphalt roofing.
- Category II Non-Friable - Any other non-friable ACM material that is Category I Non-Friable that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure (example transite).

The aforementioned testing and analytical constraints can affect the findings and recommendations of this survey. Specifically, no assurance is given regarding the asbestos content of the samples beyond these parameters. Further investigation is not recommended unless the client can determine it is cost-effective to do so.

The PLM method is the most commonly used method to analyze building materials for the presence of asbestos. This method utilizes the optical properties of minerals to identify the selected constituent. The use of this method enables identification of the type and the percentage of asbestos in a given sample. The detection limit of the PLM method for asbestos identification is typically one percent (1%) asbestos.

POLYCHLORINATED BIPHENYLS (PCBS) IN BUILDING MATERIALS

PCBs ≥ 50 parts per million (ppm) in building materials such as caulk, plaster, and sealants are regulated as *PCB bulk product waste* under the Federal regulations contained in 40 CFR Part 761.62. PCBs bulk product waste is not an approved use under 40 CFR Part 761 and must be removed. In certain circumstances, PCB bulk product waste (and contaminated substrates) can be managed in place but only by specific approval by EPA. Any such management in place requires EPA's site-specific approval. Building materials such as caulk that contain PCBs < 50 ppm are not regulated by the Federal regulations and are known as *excluded PCB bulk product wastes* (i.e. unregulated or excluded from Federal regulation).

2012 EPA Re-Interpretation Guidance

In 2012, EPA re-interpreted 40 CFR Part 761 as it concerns the disposal of PCBs in substrates. Before the reinterpretation, PCB contaminated substrates were regulated as PCB remediation waste (at a RCRA chemical waste landfill at higher cost), while the source material itself was regulated as bulk product waste (at lower cost). The logic was that PCBs had leached (or spilled) into adjacent materials are thus PCB remediation wastes as defined by 40 CFR Part 761.3. Recognizing that the regulations paradoxically required the disposal of lower-level PCB wastes in a more stringent

manner, EPA re-interpreted the regulation to follow common sense logic, and permit the disposal of lower-level PCB wastes in the same manner as PCB bulk product waste.

After the reinterpretation, contaminated substrates (attached materials such as masonry) from the leaching of PCB bulk product waste (i.e., source material containing PCBs ≥ 50 ppm) are regulated at concentrations > 1 ppm as PCB bulk product waste under 40 CFR Part 761.62 if the substrate is attached at the time designated for disposal. However, if the bulk product waste and substrate have separated at the time designated for disposal, the contaminated substrate is still regulated > 1 ppm as PCB remediation waste under 40 CFR Part 761.61 at higher cost. The reinterpretation made it easier and less costly to dispose of PCB bulk product waste in the context of demolition.

LEAD-BASED PAINT

A lead-based paint inspection is a surface-by-surface investigation to determine the presence of lead-based paint and the provision of a report explaining the results of the investigation. In general, there are many other building materials which can contain lead in the average building. When conducting construction or demolition activities which disturb lead in any amount or create an exposure to workers, the employer is required to provide worker protection and conduct exposure assessments. Employers should consult Federal OSHA Regulations at 29 CFR 1926.62, "Lead in Construction" standards for complete requirements prior to construction or demolition activities.

Notification must be given to all other contractors at the work site prior to the start of activities that may create a lead hazard. Characterization and disposal of lead-containing waste materials (LCWMs) must comply with federal, state and local authorities.

Contractors must maintain current licenses as required by applicable state or local jurisdictions for the removal, transport, disposal of LCWMs, or other regulated lead-based paint activities.

UNIVERSAL WASTE

The Environmental Protection Agency (EPA) regulates the management of hazardous waste through the Resource Conservation and Recovery Act (RCRA) Subtitle C (40 CFR Part 260) and Standards for Universal Waste Management (40 CFR Part 273), respectively. The RCRA hazardous waste program regulates commercial businesses and government facilities that generate, transport, treat, store, or dispose of hazardous waste.

A visual survey was conducted to evaluate the following hazardous materials in terms of presence, number, and configuration. An inventory was compiled for the various materials encountered.

- Mercury light ballasts, fluorescent lights, mercury light switches, and thermostat bulbs.
- Radioactive sources such as tritium-containing signage.
- PCB-containing equipment including elevator hoists, switching equipment and panels, electrical transformers, hydraulic lifts.
- CFC-containing equipment such as HVAC pumps and compressors.

2.0 HAZARDOUS MATERIALS SURVEY

2.1 Visual Inspection

During the course of the property visit, Jackie Barr and Tristan Stetson, performed a review of accessible areas of the subject building for the presence of hazardous materials. The purpose of this assessment is for renovation purposes. Additional suspect hazardous materials could be present in inaccessible locations.

Partner did not attempt to disassemble mechanical equipment, open pipe chases, or assess materials within wall voids. Regardless of the thoroughness of a survey, the possibility exists that some areas containing hazardous materials such as ACM and/or LBP were not identified, inaccessible, or different from those materials at specific locations.

The original structure is a brick exterior veneer on steel frame, with white metal ribbon windows with a flat roof. The original structure included twenty-one independent spaces on the first floor converted into classrooms, a library and library storage area, an art room, a nurse's office, a principles office, a main office area, a garage, a mechanical room, a boiler room, two restrooms, an auxiliary room, a multipurpose room with a stage, and a kitchen area with an office, restroom, and food storage area. The second floor of the original construction included twenty independent spaces converted into eleven classrooms, two special education rooms with independent restrooms, an electrical room, a roof access room, two general storage rooms, and two restrooms.

The original structure was constructed using a various of wall material types including brick and mortar, ceramic cinderblock wall tiles, drywall and joint compound walls, cinderblock walls, various 9"x9" floor tiles, various 12"x12" floor tiles, ceramic floor tiles, rubberized stair treads, various 4" & 6" cove bases, sound board walls and ceilings, popcorn ceiling texture, suspended ceiling tiles, various thermal system insulations, and miscellaneous window glazing, caulking, and residual mastics. This section has an EPO rubberized flat roof.

The addition was constructed in 1977. The construction was relatively consistent with the construction present in the original structure. The addition includes twenty-two independent spaces converted into eleven classrooms, a library addition with two bathrooms, a teachers lounge, and two independent restrooms. This section was constructed various wall materials including brick and mortar, as well as drywall and joint compound features, various 12"x12" floor tiles, rubberized floor treads, ceramic floor tiles, multiple suspended ceiling types, wave ceiling texture, with various residual sealants, glue dobs, and two sink undercoating types. It was also discovered that the

ASBESTOS

Suspect asbestos-containing materials observed at the time of the inspection were sampled and analyzed for asbestos content. The survey also established whether any of the substrates sampled could be considered friable and/or significantly damaged or capable of immediate worker exposure.

POLYCHLORINATED BIPHENYLS (PCBs) IN BUILDING MATERIALS

Suspect PCB materials observed at the time of the inspection were sampled and analyzed for PCB content using EPA Method 8082A and the Soxhlet extraction procedure (EPA Method 3540C). Samples of paint and caulking were collected for PCB analyses.

LEAD-BASED PAINT

An X-ray Fluorescence (XRF) analyzer was used to take representative samples of painted or coated surfaces for each different testing combination in the areas inspected. A testing combination is a unique combination of room equivalent, building component type, and substrate. During the Inspection, XRF testing was performed on at least one location per testing combination, except for interior walls, where four readings were taken (or one on each wall). The XRF testing was conducted using a handheld lead paint analyzer.

UNIVERSAL WASTE

A visual inspection was conducted to review and identify current and/or past evidence of hydraulic lifts, mercury-containing equipment, fluorescent lights and ballasts, PCB- and CFC-containing equipment, and any other regulated materials that may be present in the building. Further confirmation involving disassembly and/or testing could be required to confirm the existence of hazardous materials.

2.2 Survey Results

ASBESTOS

The entire property was accessed to evaluate the presence of presumed ACM. During the inspection performed on February 24th and 27th, 2023, a total of one hundred and fifty-seven (157) layered bulk samples of presumed ACM were collected for analysis. An additional twenty-nine (29) samples were collected during the June 26th, 2023, inspection. Two (2) more samples were collected during the July 7th, 2023, sampling.

The samples were assigned individual sample numbers, sealed in plastic bags, and transported under proper chain-of-custody documentation to Optimum Analytical and Consulting, LLC. Optimum Analytical and Consulting, LLC is an American Industrial Hygiene Association (AIHA)-accredited laboratory that participates in the National Volunteer Laboratory Accreditation Program (NVLAP) quality assurance/quality control program. Refer to Appendix A for analytical data.

Table 1: ACM Sampling Results

Sample No.	Description	Location	Condition	Asbestos Content
March 3, 2023, Sampling Event				
1A	9"x9" Brown Speckled Tile w/ Black Mastic	Nurse's Office	Good - Intact	5% Chrysotile
1B	9"x9" Brown Speckled Tile w/ Black Mastic	Nurse's Office	Good - Intact	5% Chrysotile
2A	6" Cove Base w/ Brown Mastic	Nurse's Office	Good - Intact	NAD
2B	6" Cove Base w/ Brown Mastic	Nurse's Office	Good - Intact	NAD
3A	Drywall/Joint Compound	Nurse's Office	Good - Intact	NAD
3B	Drywall/Joint Compound	Art Room	Good - Intact	NAD
3C	Drywall/Joint Compound	Classroom 5	Good - Intact	NAD
4A	Bathroom Floor Tiling, Mortar and Grout	Nurses Restroom	Good - Intact	3% Chrysotile
4B	Bathroom Floor Tiling, Mortar and Grout	Women's 1 st Floor Restroom	Good - Intact	3% Chrysotile
5A	Tan Ceramic Cinderblock Wall Tiling and Grout	Hallway 1	Good - Intact	NAD
5B	Tan Ceramic Cinderblock Wall Tiling and Grout	Library	Good - Intact	NAD
6A	6" Tan Cove Base w/ Brown Mastic	Principles Office	Good - Intact	2% Chrysotile
6B	6" Tan Cove Base w/ Brown Mastic	Main Office Area	Good - Intact	***
7A	9"x9" Black Slate Tile, Tan Carpet Mastic, w/ Black Mastic	Principle Office	Good - Intact	5% Chrysotile
7B	9"x9" Black Slate Tile, Tan Carpet Mastic, w/ Black Mastic	Principle Office	Good - Intact	5% Chrysotile
8A	9"x9" Dark Gray Tile w/ Black Mastic	Hallway 1	Good - Intact	5% Chrysotile
8B	9"x9" Dark Gray Tile w/ Black Mastic	Classroom C	Good - Intact	5% Chrysotile
9A	Cinderblock and Mortar	Janitor's Closet	Good - Intact	NAD
9B	Cinderblock and Mortar	Janitor's Closet	Good - Intact	NAD
10A	Interior Brick and Mortar	Library 1	Good - Intact	NAD
10B	Interior Brick and Mortar	Library 1	Good - Intact	NAD

Sample No.	Description	Location	Condition	Asbestos Content
11A	White Window Glaze	Library 1	Damaged	2% Chrysotile
11B	White Window Glaze	Library 1	Damaged	2% Chrysotile
12A	4" Blue Cove Base w/ Beige Mastic	Library 1	Good - Intact	NAD
12B	4" Blue Cove Base w/ Beige Mastic	Library 1	Good - Intact	NAD
13A	Blue Rubberized Stair Treads w/ White Mastic	Library 1	Good - Intact	NAD
13B	Blue Rubberized Stair Treads w/ White Mastic	Library 1	Good - Intact	NAD
14A	9"x9" Red Floor Tile w/ Black Mastic	Art Room	Good - Intact	5% Chrysotile
14B	9"x9" Red Floor Tile w/ Black Mastic	Art Room	Good - Intact	5% Chrysotile
15A	12"x12" Red Floor Tile, Black Residual Mastic w/ Brown Mastic	Art Room	Good - Intact	NAD
15B	12"x12" Red Floor Tile, Black Residual Mastic w/ Brown Mastic	Art Room	Good - Intact	NAD
16A	6" White Cove Base w/ Tan Mastic	Art Room	Good - Intact	2% Chrysotile
16B	6" White Cove Base w/ Tan Mastic	Classroom 4	Good - Intact	2% Chrysotile
17A	White Window Caulking	Art Room	Good - Intact	NAD
17B	White Window Caulking	Classroom 4	Good - Intact	NAD
18A	Sound Board w/ Brown Glue Dobs	Hallway 1 Closet	Good - Intact	2% Chrysotile
18B	Sound Board w/ Brown Glue Dobs	Hallway 1 Closet	Good - Intact	2% Chrysotile
19A	9"x9" Black Faux Marble Floor w/ Black Mastic	Front Entryway	Good - Intact	3% Chrysotile
19B	9"x9" Black Faux Marble Floor w/ Black Mastic	Front Entryway	Good - Intact	3% Chrysotile
20A	4" Black Cove Base w/ Brown Mastic	Front Entryway	Good - Intact	2% Chrysotile
20B	4" Black Cove Base w/ Brown Mastic	Front Entryway	Good - Intact	2% Chrysotile
21A	9"x9" Green Floor Tile w/ Black Mastic	Multipurpose Room	Good - Intact	5% Chrysotile
21B	9"x9" Green Floor Tile w/ Black Mastic	Multipurpose Room	Good - Intact	2% Chrysotile

Sample No.	Description	Location	Condition	Asbestos Content
22A	12"x12" Green Floor Tile, Black Residual Mastic w/ Black Mastic	Multipurpose Room	Good - Intact	NAD
22B	12"x12" Green Floor Tile, Black Residual Mastic w/ Black Mastic	Multipurpose Room	Good - Intact	NAD
23A	Green Ceramic Cinderblock Wall Tiling and Grout	Multipurpose Room	Good - Intact	NAD
23B	Green Ceramic Cinderblock Wall Tiling and Grout	Multipurpose Room	Good - Intact	NAD
24A	12"x12" Tan/Brown Floor Tile w/ White Streaks and Dark Brown Mastic	Kitchen	Good - Intact	NAD
24B	12"x12" Tan/Brown Floor Tile w/ White Streaks and Dark Brown Mastic	Kitchen	Good - Intact	1% Chrysotile
25A	12"x12" Black Floor Tile w/ Black Mastic	Kitchen	Good - Intact	2% Chrysotile
25B	12"x12" Black Floor Tile w/ Black Mastic	Kitchen	Good - Intact	2% Chrysotile
26A	12"x12" White Floor Tile w/ Gray, Red, and Black Mastic	Kitchen	Good - Intact	2% Chrysotile
26B	12"x12" White Floor Tile w/ Gray, Red, and Black Mastic	Kitchen	Good - Intact	2% Chrysotile
27A	12"x12" Yellow/Beige Floor Tile w/ Gray, Red, and Black Mastic	Kitchen	Good - Intact	2% Chrysotile
27B	12"x12" Yellow/Beige Floor Tile w/ Gray, Red, and Black Mastic	Kitchen	Good - Intact	2% Chrysotile
28A	4" Gray Cove Base w/ Cream Mastic	Kitchen Bathroom	Good - Intact	NAD
28B	4" Gray Cove Base w/ Cream Mastic	Kitchen Bathroom	Good - Intact	NAD
29A	12"x12" Light Yellow Floor Tile w/ Black Mastic	Kitchen Office	Good - Intact	3% Chrysotile
29B	12"x12" Light Yellow Floor Tile w/ Black Mastic	Kitchen Walk-In Freezer	Good - Intact	3% Chrysotile
30A	9"x9" Sandy Floor Tile w/ Black Mastic	Boiler Room	Good - Intact	5% Chrysotile
30B	9"x9" Sandy Floor Tile w/ Black Mastic	Boiler Room	Good - Intact	5% Chrysotile
31A	9"x9" Dark Brown Tile w/ Black Mastic	Boiler Room	Good - Intact	3% Chrysotile
31B	9"x9" Dark Brown Tile w/ Black Mastic	Boiler Room	Good - Intact	3% Chrysotile

Sample No.	Description	Location	Condition	Asbestos Content
32A	9"x9" Burnt Brown w/ White and Black Streaks and White Mastic	Elevator Area	Good - Intact	5% Chrysotile
32B	9"x9" Burnt Brown w/ White and Black Streaks and White Mastic	Elevator Area	Good - Intact	5% Chrysotile
33A	9"x9" Stripy Tan w/ Brown Streaks and Light-Yellow Mastic	Elevator Area	Good - Intact	5% Chrysotile
33B	9"x9" Stripy Tan w/ Brown Streaks and Light-Yellow Mastic	Elevator Area	Good - Intact	5% Chrysotile
34A	Miscellaneous Cream Residual Wall Mastic	Boiler Room	Good - Intact	NAD
34B	Miscellaneous Cream Residual Wall Mastic	Boiler Room	Good - Intact	NAD
35A	Speckled Ceiling Tile	Elevator Area	Good - Intact	NAD
35B	Speckled Ceiling Tile	Elevator Area	Good - Intact	NAD
36A	12"x12" Light Blue Speckled Floor Tile w/	Classroom 4	Good - Intact	NAD
36B	12"x12" Light Blue Speckled Floor Tile w/	Classroom 5	Good - Intact	NAD
37A	12"x12" Blue/Gray Floor Tile w/	Hallway 2	Good - Intact	NAD
37B	12"x12" Blue/Gray Floor Tile w/	Hallway 2	Good - Intact	NAD
38A	Blue Ceramic Floor Tile w/ Grout, and Mortar	Boy's Upstairs Restroom	Good - Intact	NAD
38B	Blue Ceramic Floor Tile w/ Grout, and Mortar	Boy's Upstairs Restroom	Good - Intact	NAD
39A	Light Blue Ceramic Floor Tile w/ Yellow Mastic, Grout, and Mortar (Repair)	Boy's Upstairs Restroom	Good - Intact	NAD
39B	Light Blue Ceramic Floor Tile w/ Yellow Mastic, Grout, and Mortar (Repair)	Boy's Upstairs Restroom	Good - Intact	NAD
40A	Pink Ceramic Patterned Floor Tile, Grout, and Mortar	Girl's Upstairs Restroom	Good - Intact	NAD
40B	Pink Ceramic Patterned Floor Tile, Grout, and Mortar	Girl's Upstairs Restroom	Good - Intact	NAD
41A	9"x9" Brown/Gray Floor Tile w/ Black Mastic	Classroom 6	Good - Intact	5% Chrysotile

Sample No.	Description	Location	Condition	Asbestos Content
41B	9"x9" Brown/Gray Floor Tile w/ Black Mastic	SPED 1	Good - Intact	5% Chrysotile
42A	9"x9" Light Brown Floor Tile w/ Brown Specks, and Black Mastic	Classroom 7	Good - Intact	5% Chrysotile
42B	9"x9" Light Brown Floor Tile w/ Brown Specks, and Black Mastic	Classroom 7	Good - Intact	5% Chrysotile
43A	Tan Rubberized Floor Tread w/ Black Mastic	Entryway to 1977 Addition	Good - Intact	5% Chrysotile
43B	Tan Rubberized Floor Tread w/ Black Mastic	Entryway to 1977 Addition	Good - Intact	5% Chrysotile
44A	Tan Rubberized Floor Tread w/ Tan Mastic	Entryway to 1977 Addition	Good - Intact	NAD
44B	Tan Rubberized Floor Tread w/ Tan Mastic	Entryway to 1977 Addition	Good - Intact	NAD
45A	12"x12" Tan/Blush Floor Tile w/ Streaks, and Tan Mastic	Hallway 4	Good - Intact	3% Chrysotile
45B	12"x12" Tan/Blush Floor Tile w/ Streaks, and Tan Mastic	Teacher's Lounge	Good - Intact	3% Chrysotile
46A	6" Blush Cove Base w/ Dark Brown Mastic	Hallway 4	Good - Intact	NAD
46B	6" Blush Cove Base w/ Dark Brown Mastic	Hallway 4	Good - Intact	NAD
47A	Interior Brick and Mortar	Entryway to 1977 Addition	Good - Intact	NAD
47B	Interior Brick and Mortar	Entryway to 1977 Addition	Good - Intact	NAD
48A	2"x2" Red Ceramic Tile, Mortar, and Yellow Mastic	Janitor's Closet	Good - Intact	NAD
48B	2"x2" Red Ceramic Tile, Mortar, and Yellow Mastic	Janitor's Closet	Good - Intact	NAD
49A	2"x2" Blue Ceramic Tile, Mortar, and Yellow Mastic	Boy's Bathroom (Addition)	Good - Intact	NAD
49B	2"x2" Blue Ceramic Tile, Mortar, and Yellow Mastic	Boy's Bathroom (Addition)	Good - Intact	NAD
50A	12"x12" White Floor Tile w/ Gray Specks and Yellow Mastic	Hallway 4	Good - Intact	3% Chrysotile
50B	12"x12" White Floor Tile w/ Gray Specks and Yellow Mastic	Library 2	Good - Intact	2% Chrysotile
51A	4" Tan Cove Base w/ Black Mastic	Teacher's Lounge	Good - Intact	NAD
51B	4" Tan Cove Base w/ Black Mastic	Teacher's Lounge	Good - Intact	NAD

Sample No.	Description	Location	Condition	Asbestos Content
52A	Pink/White Sink Undercoating	Teacher's Lounge	Good - Intact	8% Chrysotile
52B	Pink/White Sink Undercoating	Library 2	Good - Intact	8% Chrysotile
53A	Black Sink Undercoating	Library 2	Good - Intact	5% Chrysotile
53B	Black Sink Undercoating	Library 2	Good - Intact	5% Chrysotile
54A	Wormy Pattered 2'x2' Suspended Ceiling Tile (Replacement Tiles)	Library 2	Good - Intact	NAD
54B	Wormy Pattered 2'x2' Suspended Ceiling Tile (Replacement Tiles)	Library 2	Good - Intact	NAD
55A	Speckle Pattered 2'x2' Suspended Ceiling Tile	Library 2	Good - Intact	NAD
55B	Speckle Pattered 2'x2' Suspended Ceiling Tile	Library 2	Good - Intact	NAD
56A	Red Duct Sealant	Library 2	Good - Intact	NAD
56B	Red Duct Sealant	Library 2	Good - Intact	NAD
57A	Yellow Carpet Mastic w/ Residual Black Mastic	Library 2	Good - Intact	2% Chrysotile
57B	Yellow Carpet Mastic w/ Residual Black Mastic	Library 2	Good - Intact	2% Chrysotile
58A	Wave Ceiling Texture	Library 2	Good - Intact	NAD
58B	Wave Ceiling Texture	Library 2	Good - Intact	NAD
58C	Wave Ceiling Texture	Library 2	Good - Intact	NAD
59A	Brown Chalkboard Glue Dobs (1977)	Classroom 21	Good - Intact	2% Chrysotile
59B	Brown Chalkboard Glue Dobs (1977)	Classroom 23	Good - Intact	2% Chrysotile
60A	Black Window Caulking	Classroom 21	Good - Intact	NAD
60B	Black Window Caulking	Classroom 22	Good - Intact	NAD
61A	Popcorn Ceiling Texture	Hallway 3	Damaged	5% Chrysotile
61B	Popcorn Ceiling Texture	Hallway 3	Damaged	5% Chrysotile
61C	Popcorn Ceiling Texture	Hallway 2	Damaged	5% Chrysotile
61D	Popcorn Ceiling Texture	Hallway 2	Damaged	5% Chrysotile

Sample No.	Description	Location	Condition	Asbestos Content
61E	Popcorn Ceiling Texture	Front Entry	Damaged	5% Chrysotile
61F	Popcorn Ceiling Texture	Hallway 1	Damaged	5% Chrysotile
61G	Popcorn Ceiling Texture	Hallway 1	Damaged	5% Chrysotile
62A	Boiler/Tank Jacket TSI	Boiler Room	Good - Intact	65% Chrysotile
62B	Boiler/Tank Jacket TSI	Boiler Room	Good - Intact	65% Chrysotile
62C	Boiler/Tank Jacket TSI	Boiler Room	Good - Intact	65% Chrysotile
63A	Chalky White Pipe TSI and Jacket	Boiler Room	Good - Intact	20% Amosite 15% Crocidolite
63B	Chalky White Pipe TSI and Jacket	Boiler Room	Good - Intact	20% Amosite 15% Crocidolite
63C	Chalky White Pipe TSI and Jacket	Boiler Room	Good - Intact	20% Amosite 15% Crocidolite
64A	Red Gasket	Boiler Room	Good - Intact	8% Chrysotile
64B	Red Gasket	Boiler Room	Good - Intact	8% Chrysotile
65A	Chalky White Pipe TSI Elbows	Boiler Room	Good - Intact	75% Chrysotile
65B	Chalky White Pipe TSI Elbows	Boiler Room	Good - Intact	75% Chrysotile
65C	Chalky White Pipe TSI Elbows	Boiler Room	Good - Intact	75% Chrysotile
66A	Newer Fiberglass TSI	Boiler Room	Good - Intact	NAD
66B	Newer Fiberglass TSI	Boiler Room	Good - Intact	NAD
66C	Newer Fiberglass TSI	Boiler Room	Good - Intact	NAD
67A	Original Construction EPO Roof Core	Near Chimney	Good - Intact	NAD
67B	Original Construction EPO Roof Core	Near Roofing Catch	Good - Intact	NAD
68A	White Penetration Pipe Sealant (2" Pipes)	1977 Addition Roof (Over Library)	Good - Intact	8% Chrysotile
68B	White Penetration Pipe Sealant (2" Pipes)	1977 Addition Roof (Over Hallway 5)	Good - Intact	8% Chrysotile
69A	Miscellaneous Black Caulking	Chimney	Good - Intact	NAD
69B	Miscellaneous Black Caulking	4" Penetration Pipe	Good - Intact	NAD

Sample No.	Description	Location	Condition	Asbestos Content
70A	White Rubberized EPO Roofing Core	1977 Addition Roof (Over Library)	Good - Intact	NAD
70B	White Rubberized EPO Roofing Core	1977 Addition Roof (Over Hallway 5)	Good - Intact	NAD
71A	Exterior Brick and Mortar	Original Entry	Good - Intact	NAD
71B	Exterior Brick and Mortar	Original Entry	Good - Intact	NAD
72A	Exterior White Caulking (Old)	Outside Art Room	Good - Intact	NAD
72B	Exterior White Caulking (Old)	Outside Library	Good - Intact	NAD
73A	Exterior White Caulking (New)	Outside Library	Good - Intact	NAD
73B	Exterior White Caulking (New)	Outside Library	Good - Intact	NAD

Sample No.	Description	Location	Condition	Asbestos Content
June 26, 2023, Sampling Event				
74A	Window Glazing, White	Classroom 9 Window Exterior (1956 Construction)	Good - Intact	NAD
74B	Window Glazing, White	Eastern Main Entrance (1956 Construction)	Good - Intact	NAD
75A	Rough Coat, Grey	Northern Main Entrance (1977 Addition)	Good - Intact	NAD*
	Textured Coat Plaster, White	Northern Main Entrance (1977 Addition)	Good - Intact	NAD*
75B	Rough Coat, Grey	Southern Back Entrance (1977 Addition)	Good - Intact	NAD*
	Textured Coat Plaster, White	Southern Back Entrance (1977 Addition)	Good - Intact	NAD*
76A	Rough Coat, Grey	Adjacent to Northern Main Entrance (1956 Construction)	Good - Intact	NAD*
	Textured Coat Plaster, White	Adjacent to Northern Main Entrance (1956 Construction)	Good - Intact	2% Chrysotile
76B	Plaster Roofing Panel, Gray/Tan	Adjacent to Western Courtyard Entrance (1956 Construction)	Good - Intact	NAD
76C	Plaster Roofing Panel, Gray/Tan	Library Exit (1956 Construction)	Good - Intact	NAD
77A	Tar on Black Window Frame (New), Black	Adjacent to Library 2 (1977 Addition)	Good - Intact	NAD
77B	Tar on Black Window Frame (New), Black	Western Courtyard Wall	Good - Intact	NAD
78A	Expansion Joint Caulking (New), Gray	Adjacent to Northern Main Entrance (1977 Addition)	Good - Intact	2% Chrysotile
78B	Expansion Joint Caulking (New), Gray	Western Outside Wall (1977 Addition)	Good - Intact	***
79A	Window To Door Glazing, Gray	Western Side Exit (1977 Addition)	Good - Intact	5% Chrysotile
79B	Window To Door Glazing, Gray	Western Side Exit (1977 Addition)	Good - Intact	***
80A	Metal Grate Sealant, Gray/Tan	Eastern Courtyard Wall	Good - Intact	3% Chrysotile
80B	Metal Grate Sealant, Gray/Tan	Eastern Courtyard Wall	Good - Intact	***

Sample No.	Description	Location	Condition	Asbestos Content
81A	Paper Underlayment, Gray	Stage Multi-Purpose	Good - Intact	90% Chrysotile
81B	Paper Underlayment, Gray	Stage Multi-Purpose	Good - Intact	***
82A	Countertop Laminate, White/Brown	Art Room	Good - Intact	NAD
82B	Countertop Laminate, White/Brown	Classroom 10	Good - Intact	NAD
83A	Tackboard Adhesive, Brown	Classroom 1	Good - Intact	NAD
83B	Tackboard Adhesive, Brown	Classroom 2	Good - Intact	NAD
84A	Chalk Board Glue Dob, Brown (1956)	Classroom 1	Good - Intact	NAD
84B	Chalk Board Glue Dob, Brown (1956)	Classroom 2	Good - Intact	NAD
85A	Glazing Visibility Window, Black	2 nd Floor Hallway	Good - Intact	NAD
85B	Glazing Visibility Window, Black	1 st Floor Entryway	Good - Intact	NAD
85-A	Bulk Material, White	Classroom 7 & 8 Joining Wall	Good - Intact	NAD
85-B	Bulk Material, White	Classroom 7 & 8 Joining Wall	Good - Intact	NAD
86A	Fibrous Ceiling Panel, Tan/White	Hallway 4	Good - Intact	NAD
86B	Fibrous Ceiling Panel, Tan/White	Hallway 4	Good - Intact	NAD
July 7th, 2023, Sampling Event				
87A	Black Exterior Weatherization Coating	Exterior	Good – Intact	8% Chrysotile
87B	Black Exterior Weatherization Coating	Exterior	Good – Intact	8% Chrysotile

NAD* - No Asbestos Detected/ Material must be considered an ACM based on analysis results of other samples in homogenous group;

Bold – Asbestos Containing Material

***** - Positive Stop**

Asbestos-containing material is defined as any material containing one percent or greater ($\geq 1\%$) asbestos as determined using PLM (MA DEP).

Documentation of the laboratory results should be retained as a reference for future renovation/ demolition activities.

POLYCHLORINATED BIPHENYLS (PCBs) IN BUILDING MATERIALS

A total of five (5) bulk samples of potential PCB containing building materials were collected for analysis. The samples were assigned individual sample numbers, sealed in mason jars, and transported under proper chain-of-custody documentation to New England Testing Laboratory, Inc. New England Testing Laboratory, Inc. is an American Industrial Hygiene Association (AIHA)-accredited laboratory that participates in the National Volunteer Laboratory Accreditation Program (NVLAP) quality assurance/quality control program. Refer to Appendix A for analytical data.

Table 2: PCB Sampling Results

Sample No.	Location	Description	Total PCB Content (ppm)
1	Interior Art Room Windows	White Window Caulking	ND
2	1977 Addition Roofing System (2" Penetration Pipes)	White Roof Caulking	ND
3	Chimney	Black Roof Caulking	ND
4	Exterior Art Room Windows	White Window Caulking (Original)	ND
5	Exterior Library Windows	White Window Caulking (Newer)	ND

ND - Non-Detect

LEAD-BASED PAINT

On February 27th, 2023, Jackie Barr performed a review of accessible areas of the subject building for the presence of suspect LBP. The painted/coated surfaces containing suspect LBP were analyzed and the data was recorded using a LPA1-2730 X-ray Fluorescence (XRF) analyzer.

The XRF uses a Cobalt 57 (Co) isotope radioactive source to 'excite' the atomic structure of painted surfaces. Once 'excited', lead (Pb) atoms emit unique X-ray fluorescence radiation energy. The radiation detector within the XRF then translates these X-rays into a quantitative measure of lead concentration. If present, the XRF will determine the amount of lead in paint with a 95% confidence level. The lead concentrations are reported in milligrams per square centimeter (mg/cm²). Each XRF has a Performance Characteristic Sheet (PCS), which is included as Appendix A.

Fifteen (15) measurements, as well as calibration measurements, were taken at locations representative of painted or coated surfaces for each different testing combination in the areas inspected. A testing combination is a unique combination of room equivalent, building component type, and substrate.

In order to obtain a reading, the XRF analyzer is placed with the face of the instrument flush against the surface to be tested. It is then held in place for the duration of the sample, approximately 4 to 16 seconds, or until the measurement has reached the acceptable range of accuracy.

XRF analysis yields the total lead content of a painted surface, thereby not distinguishing between individual concentrations of painted layers. The XRF was calibrated with a National Institute of

Standards and Testing (NIST) calibration surface prior to and after analysis of painted surfaces according the requirements outlined in the XRF PCS.

During the Inspection, XRF testing was performed on at least one location per testing combination, except for interior walls, where four readings were taken (or one on each wall). The XRF testing was conducted using a handheld lead paint analyzer.

Partner has determined that LBP was detected at the subject property at or above 1.0 mg/cm². The following table is a summary of the readings obtained using the XRF.

Table 3: Lead XRF Sampling Results

Location	Description	Results (mg/cm²)
1977 Addition	Green Paint - Support Columns & Door Frames	0.00
1977 Addition	Teal Paint - Hallway & Classroom Walls	0.00
1977 Addition	White Paint - Classroom Walls	0.00
1977 Addition	Beige Paint - Classroom Radiators	0.00
1977 Addition	Blue Paint - Library 2 Walls	0.00
1977 Addition	Yellow Paint - Restroom Walls	0.00
1956 Construction	Blue Paint - Classroom Walls	0.02
1977 Addition	Dark Brown Paint - Door Frames	0.00
1956 Construction	Blush Paint - Women's Restroom Radiator & Windows	1.08
1956 Construction	Teal Paint - Classroom 1 Walls	0.01
1956 Construction	Yellow & Red Paint – Classroom 2 Walls	0.04
1956 Construction	Blue & Green Paint – Classroom 2 Walls	0.02
1956 Construction	Black Paint – Boiler Room Walls	0.15
1956 Construction	Purple Paint – Nurse's Office	0.13
1956 Construction	Yellow Paint – Exterior Window Frames	1.72

Bold – LBP Material

UNIVERSAL WASTE

The following universal wastes were observed at the site:

Table 4: Universal Hazardous Waste

Type of Material	Location	Quantity	Container
4 Ft Fluorescent Lights (mercury)	1956 Construction (First Floor)	259	<i>Bulbs</i>
4 Ft Fluorescent Light Ballasts (PCBs)	1956 Construction (First Floor)	132	<i>Ballasts</i>
Circular Fluorescent Lights (mercury)	1956 Construction (First Floor)	2	<i>Bulbs</i>
Circular Fluorescent Ballasts (PCBs)	1956 Construction (First Floor)	2	<i>Ballasts</i>
4 Ft Fluorescent Lights (mercury)	1956 Construction (Second Floor)	480	<i>Bulbs</i>
4 Ft Fluorescent Light Ballasts (PCBs)	1956 Construction (Second Floor)	240	<i>Ballasts</i>
Circular Fluorescent Lights (mercury)	1956 Construction (Second Floor)	5	<i>Bulbs</i>
Circular Fluorescent Ballasts (PCBs)	1956 Construction (Second Floor)	5	<i>Ballasts</i>
4 Ft Fluorescent Lights (mercury)	1977 Addition	572	<i>Bulbs</i>
4 Ft Fluorescent Light Ballasts (PCBs)	1977 Addition	278	<i>Ballasts</i>
Circular Fluorescent Lights (mercury)	1977 Addition	4	<i>Bulbs</i>
Circular Fluorescent Ballasts (PCBs)	1977 Addition	4	<i>Ballasts</i>
Emergency Signs (radioactive source)	1956 Construction (First Floor)	5	<i>N/A</i>
Emergency Signs (radioactive source)	1956 Construction (Second Floor)	5	<i>N/A</i>
Emergency Signs (radioactive source)	1977 Addition	4	<i>N/A</i>

Type of Material	Location	Quantity	Container
Mercury Switches	1956 Construction (First Floor)	3	<i>Thermostat</i>
Mercury Switches	1956 Construction (Second Floor)	1	<i>Thermostat</i>
Mercury Switches	1977 Addition	0	<i>Thermostat</i>
Pole-mounted Electrical Transformer (480 V) (PCBs)	Exterior	1	<i>Transformer</i>
Hydraulic Elevators (PCBs)	Elevator Area – 1956 Construction	1	N/A

3.0 CONCLUSION

ASBESTOS

The following ACM were confirmed to contain asbestos:

Table 5: ACM Analytical Results

Homogenous Area	Description	Location	Asbestos Content	Quantities
1	9"x9" Brown Speckled Tile w/ Black Mastic	Nurse's Office	5% Chrysotile (Tile)	600 SF
4	Bathroom Floor Tiling, Mortar and Grout	Nurse's Restroom	3% Chrysotile (Tile)	1,500 SF
6	6" Tan Cove Base w/ Brown Mastic	Principles Office	2% Chrysotile (Covebase Adhesive)	80 SF
7	9"x9" Black Slate Tile, Tan Carpet Mastic, w/ Black Mastic	Principle Office	5% Chrysotile (Floor Tile)	300 SF
8	9"x9" Dark Gray Tile w/ Black Mastic	Hallway 1	5% Chrysotile (Floor Tile)	900 SF
11	White Window Glaze	Library 1	2% Chrysotile	4,500 LF
14	9"x9" Red Floor Tile w/ Black Mastic	Art Room	5% Chrysotile (Floor Tile)	650 SF
16	6" White Cove Base w/ Tan Mastic	Art Room, Classroom 4	2% Chrysotile (Mastic)	250 LF
18	Sound Board w/ Brown Glue Dobs	Hallway 1 Closet	2% Chrysotile	125 SF
19	9"x9" Black Faux Marble Floor w/ Black Mastic	Front Entryway	3% Chrysotile (Floor Tile)	250 SF
20	4" Black Cove Base w/ Brown Mastic	Front Entryway	2% Chrysotile (Mastic)	300 LF
21	9"x9" Green Floor Tile w/ Black Mastic	Multipurpose Room	5% Chrysotile (Floor Tile and Mastic)	1050 SF
24	12"x12" Tan/Brown Floor Tile w/ White Streaks and Dark Brown Mastic	Kitchen	1% Chrysotile (Mastic)	50 SF
25	12"x12" Black Floor Tile w/ Black Mastic	Kitchen	2% Chrysotile (Floor Tile and Mastic)	50 SF
26	12"x12" White Floor Tile w/ Gray, Red, and Black Mastic	Kitchen Bathroom	2% Chrysotile (Floor Tile)	125 SF

Homogenous Area	Description	Location	Asbestos Content	Quantities
27	12"x12" Yellow/Beige Floor Tile w/ Gray, Red, and Black Mastic	Kitchen Bathroom	2% <i>Chrysotile (Floor Tile)</i>	125 SF
29	12"x12" Light Yellow Floor Tile w/ Black Mastic	Kitchen Walk-In Freezer/ Security	3% <i>Chrysotile (Floor Tile)</i>	550 SF
30	9"x9" Sandy Floor Tile w/ Black Mastic	Boiler Room	5% <i>Chrysotile (Floor Tile)</i>	20 SF
31	Brown 9"x9" Floor Tile	Boiler Room	3% <i>Chrysotile</i>	50 SF
32	9"x9" Burnt Brown w/ White and Black Streaks and White Mastic	Elevator Area	5% <i>Chrysotile (Floor Tile)</i>	20 SF
33	9"x9" Stripy Tan w/ Brown Streaks and Light-Yellow Mastic	Elevator Area	5% <i>Chrysotile (Floor Tile)</i>	20 SF
41	9"x9" Brown/Gray Floor Tile w/ Black Mastic	Classroom 6	5% <i>Chrysotile (Floor Tile)</i>	800 SF
42	9"x9" Light Brown Floor Tile w/ Brown Specks, and Black Mastic	Classroom 7	5% <i>Chrysotile (Floor Tile)</i>	550 SF
43	Tan Rubberized Floor Tread w/ Black Mastic	Entryway to 1977 Addition	5% <i>Chrysotile (Floor Tile Mastic)</i>	100 SF
45	12"x12" Tan/Blush Floor Tile w/ Streaks, and Tan Mastic	Throughout 1977 Addition	3% <i>Chrysotile (Floor Tile)</i>	10,000 SF
50	12"x12" White Floor Tile w/ Gray Specks and Yellow Mastic	Throughout 1977 Addition	3% <i>Chrysotile (Floor Tile and Mastic)</i>	10,000 SF
52	Pink/White Sink Undercoating	Teacher's Lounge, Library 2	8% <i>Chrysotile</i>	3 Sinks (6 SF)
53	Black Sink Undercoating	Classrooms of 1977, Library 2	5% <i>Chrysotile</i>	10 Sinks (20 SF)
57	Yellow Carpet Mastic w/ Residual Black Mastic	Library 2	2% <i>Chrysotile</i>	250 SF
59	Brown Chalkboard Glue Dobs	Classrooms of 1977	2% <i>Chrysotile</i>	2,000 SF
61	Popcorn Ceiling Texture	Hallways of 1956	5% <i>Chrysotile</i>	16,000 SF

Homogenous Area	Description	Location	Asbestos Content	Quantities
62	Boiler/Tank Jacket TSI	Boiler Room	65% <i>Chrysotile</i>	2 Boilers, 1 Tank (900 SF)
63	Chalky White Pipe TSI and Jacket	Boiler Room	20% <i>Amosite</i> 15% <i>Crocidolite</i>	3,500 LF
64	Red Gasket	Boiler Room	8% <i>Chrysotile</i>	100 Gaskets
65	Chalky White Pipe TSI Elbows	Boiler Room	75% <i>Chrysotile</i>	500 Elbows
68	White Penetration Pipe Sealant (2" Pipes)	1977 Addition Roof (Over Library)	8% <i>Chrysotile</i>	800 SF
76	White Texture Coat Plaster	1956 Construction (Overhang)	2% <i>Chrysotile</i>	2,400 SF
78	Gray Expansion Joint Caulking	Exterior of 1977 Addition	2% <i>Chrysotile</i>	500 LF
79	Gray Window to Door Glazing	Western Side Exit	5% <i>Chrysotile</i>	50 LF
80	Gray/Tan Metal Grate Sealant	Exterior of 1977 Addition	3% <i>Chrysotile</i>	2,250 LF
81	Gray Paper Underlayment (Under wood flooring)	Stage within Multi-Purpose Space	90% <i>Chrysotile</i>	1,125 SF
87	Black Weatherization Coating	Exterior of 1977 Addition	8% <i>Chrysotile</i>	12,500 SF

The roof(s) appeared to be in good overall condition and was sampled as a part of the survey. Roofing drainage systems should be cleaned, as standing water was observed pooling near roof drains and at other locations on the roof.

The EPA recommends that all ACM be removed by a certified asbestos contractor prior to any renovation or demolition activities that may impact the material. In the absence of planned renovation/demolition activities, the EPA recommends that ACMs be managed in-place whenever asbestos is identified in a building. Any damaged asbestos materials should be removed, repaired, encapsulated, or enclosed. Asbestos materials that are not damaged may be managed in place in accordance with a written Operations and Maintenance Program.

Federal, state, and local laws require building owners and/or their representatives, prior to any demolition and/or renovation operations which may disturb any asbestos-containing materials in their buildings, to meet the following requirements:

- Notifications,
- Removal techniques (such as wetting) for asbestos-containing materials,

- Clean-up procedures,
- Waste storage and disposal requirements.

The potential exists for additional suspect ACM to be exposed during demolition and/or renovation activities. Such materials should be sampled and analyzed for asbestos content prior to any renovation and/or demolition activities that could impact these materials.

POLYCHLORINATED BIPHENYLS (PCBs) IN BUILDING MATERIALS

PCB containing paint was found at the subject building at concentrations both above and below 50 Parts per million.

PCBs ≥ 50 ppm in building materials such as caulk, plaster, and sealants are regulated as *PCB bulk product waste* under the Federal regulations contained in 40 CFR Part 761.62. PCBs bulk product waste is not an approved use under 40 CFR Part 761 and must be removed. In certain circumstances, PCB bulk product waste (and contaminated substrates) can be managed in place but only by specific approval by EPA. Any such management in place requires EPA's site-specific approval. Building materials, such as caulk, that contain PCBs < 50 ppm are not regulated by the Federal regulations and are known as *excluded PCB bulk product wastes* (i.e. unregulated or excluded from Federal regulation).

Samples collected were found to contain PCBs ≥ 50 parts per million, and therefore are identified as PCB bulk waste.

The visually identified hazardous materials should be confirmed where necessary, and properly removed and segregated prior to renovation/demolition activities. Proper packaging and disposal should be conducted in compliance with federal, state, and local regulations.

LEAD-BASED PAINT

LBP was identified at the subject building. Some of the samples also contained detectable concentrations of lead below the threshold for LBP.

Work activities impacting LBP pose a potential exposure risk for workers and/or building occupants. Workers trained in proper safety and respiratory techniques should perform renovation activities that may impact the LBP described in this report. All construction work where an employee may be occupationally exposed to lead must comply with OSHA requirements set forth in 29 CFR 1926.62. This regulation requires initial employee exposure monitoring to evaluate worker exposure during work that disturbs lead-containing materials (lead present in detectable levels).

Partner suggests that engineering controls, respiratory protection and personal protective equipment be employed at the start of a project that could disturb LBP. Lead-safe work practices should also be implemented under direction of an EPA-certified lead renovator.

Waste items generated during an abatement or demolition project should be properly sampled and profiled to determine the final disposition of the waste.

The potential exists for additional suspect lead-containing materials to be exposed during demolition and/or renovation activities. Such materials should be sampled and analyzed for lead content prior to any renovation and/or demolition activities that could impact these materials.

UNIVERSAL WASTE

The visually identified universal waste should be confirmed where necessary, and properly removed and segregated prior to renovation/demolition activities. Proper packaging and disposal should be conducted in compliance with federal, state, and local regulations. Certain restrictions regarding packaging methods (lab packs), transportation (hazardous material certification & manifesting) and disposal (landfill regulations) of hazardous materials could apply.

4.0 LIMITATIONS

Partner subcontracted with EMLab P&K to perform the asbestos analysis and Pace Analytical for Polychlorinated Biphenyls (PCBs) analysis. No warranties expressed or implied, are made by Partner or its subcontractor EMLab P&K and Pace Analytical, or their employees as to the use of any information, apparatus, product, or process disclosed in this report. Every reasonable effort has been made to assure correctness. If an asbestos and/or lead abatement contractor or other demolition/construction contractor is employed, such contractor should bring any discrepancies found in this report as it relates to current site conditions or newly discovered site conditions to the immediate attention of Partner.

This report should not be used solely for asbestos abatement bidding purposes. Any quantities of ACM listed are estimates only and not meant to be used to solicit abatement quotations. These quantities should be confirmed by abatement contractors prior to submitting bids for abatement.

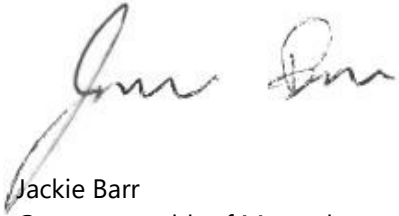
State-of-the-art practices have been employed to perform this hazardous materials survey. The scope of this evaluation was severely limited to areas which were considered reasonably accessible (i.e., less than 15 feet from the floor), or within range of a visual inspection through reasonable means. No demolition or product research was performed in attempts to reveal material compositions. The services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles/practices. These services are designed to provide an analytical tool to assist the client. Partner and its subcontractor EMLab P&K and Pace Analytical and their employees/representatives bear no responsibility for the actual condition of the structure or safety of this site pertaining to asbestos and/or lead contamination regardless of the actions taken by the survey team or the client.

5.0 SIGNATURES OF PROFESSIONALS

Partner has performed a hazardous materials survey on the property at 17 Lake Street , Spencer, Massachusetts in general conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

Prepared By:

Partner Engineering and Science, Inc.



Jackie Barr
Commonwealth of Massachusetts Inspector
License Number: AI900989



Tristan Stetson
Commonwealth of Massachusetts Inspector
License Number: AI901053



Ray Lavery
Senior Reviewer

APPENDIX A: LABORATORY ANALYSIS & CHAIN OF CUSTODY



Katie Snyder
Partner Engineering & Science
25 Buttrick Road, Unit D2
Londonderry NH 03053

Project Reference: 22445977
Laboratory Batch #: 2346200
Date Samples Received: 03/03/2023
Date Samples Analyzed: 03/16/2023
Date of Final Report: 03/20/2023

SAMPLE IDENTIFICATION:

One Hundred Fifty Seven (157) samples from 17 Lake St., Spencer, MA 01562 project were submitted by Tristan Stetson on 03/03/2023

This bulk sample(s) was delivered to Optimum Analytical Consulting, LLC (Optimum) located in Salem, New Hampshire for asbestos content determination.

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter (<0.25µm) may not be detected by the PLM method. Floor tile and other resinous bound materials may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additionally, there is currently no approved EPA analytical method to reliably confirm vermiculite as non-asbestos containing. Additional analytical methods may be required. Optimum Analytical recommends using Transmission Electron Microscopy (TEM) or other approved methods for a more definitive analysis.

Optimum will retain all samples for a minimum of three months. Further analysis or return of samples must be requested within this three month period to guarantee their availability. This report may not be reproduced except in full, without the written approval of Optimum Analytical and Consulting, LLC.

The client/laboratory shall not use the NVLAP and AIHA Logo or this test report in a way that constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Point Count = .25%, 1000 Point Count = 0.1%; Present or Absent are observations made during a qualitative analysis.

This report is considered preliminary until signed by both the Laboratory Analyst and Laboratory Director or Supervisor. If you have any questions regarding this report, please do not hesitate to contact us.

Jamie L. Noel
Laboratory Director



OPTIMUM

Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering & Science
ADDRESS: 25 Buttrick Road, Unit D2
CITY / STATE / ZIP: Londonderry NH 03053
CONTACT: Katie Snyder
DESCRIPTION: PLM Analysis
LOCATION: 17 Lake St., Spencer, MA 01562

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2346200
PROJECT #: 22445977
DATE COLLECTED:
COLLECTED BY: Tristan Stetson
DATE RECEIVED: 03/03/2023
ANALYSIS DATE: 03/16/2023
REPORT DATE: 03/20/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-001 1A	Nurse Area Tile & Mastic					
	LAYER 1 9x9 Tile, Brown	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-002 1B	Nurse Area Tile & Mastic					
	LAYER 1 9x9 Tile, Brown Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-003 2A	Nurse Area Cove Base & Mastic					
	LAYER 1 6" Covebase, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 6" Covebase Mastic, Brown	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-004 2B	Nurse Area Cove Base & Mastic					
	LAYER 1 6" Covebase, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 6" Covebase Mastic, Brown	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-005 3A	Nurse Area Drywall & Joint Compound					
	LAYER 1 Rough Coat Plaster, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
	LAYER 2 Smooth Coat, White	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-006 3B	Art Room					
	LAYER 1 Rough Coat Plaster, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
	LAYER 2 Smooth Coat, White	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-007 3C	Classroom 5			
	LAYER 1 Rough Coat Plaster, Gray	LAYER 1 100%	None Detected	Cellulose Fiber 3% Binder/Filler 97%
	LAYER 2 Smooth Coat, White	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-008 4A	Nurse Bathroom Floor			
	LAYER 1 Floor Tile, Brown	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Floor Tile Mortar, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Floor Tile Grout, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 4 Resinous Material on Back of Tile, White	LAYER 4 100%	Chrysotile 3%	Cellulose Fiber 1% Binder/Filler 96%
2346200-009 4B	Womens1st Floor Bathroom			
	LAYER 1 Floor Tile, Brown	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Floor Tile Mortar, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Floor Tile Grout, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 4 Resinous Material on Back of Tile, White/Gray Note: Positive Stop	LAYER 4 100%		
2346200-010 5A	Bathroom Wall Hallway 1			
	LAYER 1 Tile, Beige	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Tile grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-011 5B	Library			
	LAYER 1 Tile, Beige	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Tile grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-012 6A	Principle Office			
	LAYER 1 Covebase, Tan	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Covebase Adhesive, Tan/Brown	LAYER 2 100%	Chrysotile 2%	Cellulose Fiber 1% Binder/Filler 97%
2346200-013 6B	Front Office			
	LAYER 1 Covebase, Tan	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Covebase Adhesive, Tan/Brown Note: Positive Stop	LAYER 2 100%		
2346200-014 7A	Principle Office			
	LAYER 1 Carpet Mastic, Tan	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 9x9 Tile, Black	LAYER 2 100%	Chrysotile 5%	Cellulose Fiber 1% Binder/Filler 94%
	LAYER 3 9x9 Tile Mastic, Black	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-015 7B	Principle Office			
	LAYER 1 Carpet Mastic, Tan	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 9x9 Tile, Black Note: Positive Stop	LAYER 2 100%		
	LAYER 3 9x9 Tile Mastic, Black	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-016 8A	Hallway 1			
	LAYER 1 9"x9" Tile, Dark Gray	LAYER 1 100%	Chrysotile 5%	Cellulose Fiber 1% Binder/Filler 94%
	LAYER 2 9"x9" Tile Mastic, Black	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-017 8B	Classroom C					
	LAYER 1 9"x9" Tile, Dark Gray Note: Positive Stop	LAYER 1 100%				
	LAYER 2 9"x9" Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-018 9A	Janitors Closet					
	LAYER 1 Cinder Block, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mortar, Gray	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-019 9B	Janitors Closet					
	LAYER 1 Cinder Block, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mortar, Gray	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-020 10A	Library					
	LAYER 1 Int. Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mortar, Gray	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-021 10B	Library					
	LAYER 1 Int. Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mortar, Gray	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-022 11A	Library Window Caulking, Gray/Beige	LAYER 1 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-023 11B	Library Window Caulking, Gray/Beige Note: Positive Stop	LAYER 1 100%				



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-024 12A	Library					
	LAYER 1 4" Covebase, Blue	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 4" Covebase Mastic, Beige	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-025 12B	Library					
	LAYER 1 4" Covebase, Blue	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 4" Covebase Mastic, Beige	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-026 13A	Library Entry Stairs					
	LAYER 1 Stair Treads, Blue	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mastic, Beige	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-027 13B	Library Entry Stairs					
	LAYER 1 Stair Treads, Blue	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mastic, Beige	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-028 14A	Art Room					
	LAYER 1 9"x9" Floor Tile, Red	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 9"x9" Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-029 14B	Kitchen					
	LAYER 1 9"x9" Floor Tile, Red Note: Positive Stop	LAYER 1 100%				
	LAYER 2 9"x9" Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-030 15A	Art Room					
	LAYER 1 12"x12" Floor Tile, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 12"x12" Floor Tile Mastic, Black/Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	Art Room					
2346200-031 15B	LAYER 1 12"x12" Floor Tile, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 12"x12" Floor Tile Mastic, Black/Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-032 16A	Art Room					
	LAYER 1 6" Covebase, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Adhesive, Tan/Brown	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-033 16B	Classroom 4					
	LAYER 1 6" Covebase, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Adhesive, Tan/Brown Note: Positive Stop	LAYER 2 100%				
2346200-034 17A	Art Room					
	Window Caulking, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-035 17B	Classroom 4					
	Window Caulking, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-036 18A	Front Hallway Closet					
	LAYER 1 Sound Board, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Glue Dobs, Brown	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-037 18B	Front Hallway Closet					
	LAYER 1 Sound Board, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Glue Dobs, Brown Note: Positive Stop	LAYER 2 100%				
2346200-038 19A	Front Entryway/Breezeway					
	LAYER 1 9"x9" Floor Tile, Black	LAYER 1 100%	Chrysotile	3%	Cellulose Fiber Binder/Filler	1% 96%
	LAYER 2 9"x9" Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-039 19B	Front Entryway/Breezeway					
	LAYER 1 9"x9" Floor Tile, Black Note: Positive Stop	LAYER 1 100%				
	LAYER 2 9"x9" Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-040 20A	Front Entryway/Breezeway					
	LAYER 1 4" Cove Base, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 4" Cove Base Adhesive, Brown	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-041 20B	Front Entryway					
	LAYER 1 4" Cove Base, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 4" Cove Base Adhesive, Brown	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-042 21A	Gym					
	LAYER 1 9"x9" Floor Tile, Green	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 9"x9" Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-043 21B	Gym LAYER 1 9"x9" Floor Tile, Green Note: Positive Stop	LAYER 1 100%		
	LAYER 2 9"x9" Floor Tile Mastic, Black	LAYER 2 100%	Chrysotile 2%	Cellulose Fiber 1% Binder/Filler 97%
2346200-044 22A	Gym LAYER 1 12"x12" Floor Tile, Green	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12"x12" Floor Tile Mastic, Black/Tan	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-045 22B	Gym LAYER 1 12"x12" Floor Tile, Green	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12"x12" Floor Tile Mastic, Black/Tan	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-046 23A	Gym LAYER 1 Wall Tile, Green/Beige	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Wall Tile Grout, White	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-047 23B	Gym LAYER 1 Wall Tile, Green/Beige	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Wall Tile Grout, White	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-048 24A	Kitchen LAYER 1 12x12 Floor Tile, Tan	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12x12 Floor Tile Mastic, Tan/Black	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



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2346200-049 24B	Kitchen LAYER 1 12x12 Floor Tile, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 12x12 Floor Tile Mastic, Tan/Black	LAYER 2 100%	Chrysotile	1%	Cellulose Fiber Binder/Filler	1% 98%
2346200-050 25A	Kitchen LAYER 1 12x12 Floor Tile, Black	LAYER 1 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
	LAYER 2 12x12 Floor Tile Mastic, Black	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-051 25B	Kitchen LAYER 1 12x12 Floor Tile, Black Note: Positive Stop	LAYER 1 100%				
	LAYER 2 12x12 Floor Tile Mastic, Black Note: Positive Stop	LAYER 2 100%				
2346200-052 26A	Kitchen LAYER 1 12x12 Floor Tile, Tan	LAYER 1 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
	LAYER 2 12x12 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	2% 98%
2346200-053 26B	Kitchen LAYER 1 12x12 Floor Tile, Tan Note: Positive Stop	LAYER 1 100%				
	LAYER 2 12x12 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	2% 98%
2346200-054 27A	Kitchen LAYER 1 12x12 Floor Tile, Tan	LAYER 1 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
	LAYER 2 12x12 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	2% 98%



OPTIMUM

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CLIENT: Partner Engineering & Science
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CITY / STATE / ZIP: Londonderry NH 03053
CONTACT: Katie Snyder
DESCRIPTION: PLM Analysis
LOCATION: 17 Lake St., Spencer, MA 01562

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2346200
PROJECT #: 22445977
DATE COLLECTED:
COLLECTED BY: Tristan Stetson
DATE RECEIVED: 03/03/2023
ANALYSIS DATE: 03/16/2023
REPORT DATE: 03/20/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-055 27B	Bathroom LAYER 1 12x12 Floor Tile, Tan Note: Positive Stop	LAYER 1 100%				
	LAYER 2 12x12 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	2% 98%
2346200-056 28A	Kitchen LAYER 1 Covebase, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Covebase Adhesive, Beige	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-057 28B	Bathroom LAYER 1 Covebase, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Covebase Adhesive, Beige	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-058 29A	Kitchen Walk-In Freezer Area LAYER 1 12"x12" Floor Tile, Brown	LAYER 1 100%	Chrysotile	3%	Cellulose Fiber Binder/Filler	1% 96%
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-059 29B	Kitchen Walk-In Freezer Area LAYER 1 12"x12" Floor Tile, Brown Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-060 30A	Boiler Room LAYER 1 9"x9" Floor Tile, Brown	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-061 30B	Boiler Room LAYER 1 9"x9" Floor Tile, Brown Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-062 31A	Boiler Room LAYER 1 9"x9" Floor Tile, Brown	LAYER 1 100%	Chrysotile	3%	Cellulose Fiber Binder/Filler	1% 96%
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-063 31B	Boiler Room LAYER 1 9"x9" Floor Tile, Brown Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-064 32A	Lift Area LAYER 1 9"x9" Floor Tile, Brown	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Leveler, Gray	LAYER 3 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-065 32B	Lift Area LAYER 1 9"x9" Floor Tile, Brown Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Leveler, Gray	LAYER 3 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-066 33A	Lift Area LAYER 1 9x9 Tile, Gray	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Leveler, Gray	LAYER 3 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-067 33B	Lift Area LAYER 1 9x9 Tile, Gray Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Leveler, Gray	LAYER 3 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-068 34A	Boiler Room Residual Wall Mastic, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-069 34B	Boiler Room Residual Wall Mastic, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-070 35A	Lift Area Ceiling Tile, Gray/White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 15% 20%
2346200-071 35B	Lift Area Ceiling Tile, Gray/White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 15% 20%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-072 36A	Classroom 4			
	LAYER 1 12x12 Floor Tile, Light Blue	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12x12 Floor Tile Mastic, Tan	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 12x12 Floor Tile Leveler, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-073 36B	Classroom 5			
	LAYER 1 12x12 Floor Tile, Light Blue	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12x12 Floor Tile Mastic, Tan	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 12x12 Floor Tile Leveler, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-074 37A	Hallway 2			
	LAYER 1 12x12 Floor Tile, Blue/Gray	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12x12 Floor Tile Mastic, Tan	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 12x12 Floor Tile Leveler, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-075 37B	Hallway 2			
	LAYER 1 12x12 Floor Tile, Blue/Gray	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 12x12 Floor Tile Mastic, Tan	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 12x12 Floor Tile Leveler, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-075 37B	LAYER 4 12x12 Floor Tile Mastic, Black	LAYER 4 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

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2346200-076 38A	Boys Upstairs Bathroom			
	LAYER 1 Ceramic Tile, Blue	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Ceramic Tile Grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	<hr/>			
2346200-077 38B	Boys Upstairs Bathroom			
	LAYER 1 Ceramic Tile, Blue	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Ceramic Tile Grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	<hr/>			
2346200-078 39A	Boys Upstairs Bathroom			
	LAYER 1 Ceramic Tile, Blue	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Ceramic Tile Grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Ceramic Tile Adhesive, Tan	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
<hr/>				
2346200-079 39B	Boys Upstairs Bathroom			
	LAYER 1 Ceramic Tile, Blue	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Ceramic Tile Grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Ceramic Tile Adhesive, Tan	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
<hr/>				
2346200-080 40A	Girls Upstairs Bathroom			
	LAYER 1 Ceramic Tile, Beige	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Ceramic Tile Grout, Gray	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Ceramic Tile Mortar, Gray	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-081 40B	Girls Upstairs Bathroom					
	LAYER 1 Ceramic Tile, Beige	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Ceramic Tile Grout, Gray	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Ceramic Tile Mortar, Gray	LAYER 3 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-082 41A	Classroom 6					
	LAYER 1 9x9 Floor Tile, Gray	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 9x9 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-083 41B	Sped 1					
	LAYER 1 9x9 Floor Tile, Gray Note: Positive Stop	LAYER 1 100%				
	LAYER 2 9x9 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-084 42A	Classroom 7					
	LAYER 1 9x9 Floor Tile, Brown	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	1% 94%
	LAYER 2 9x9 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-085 42B	Classroom 7					
	LAYER 1 9x9 Floor Tile, Brown Note: Positive Stop	LAYER 1 100%				
	LAYER 2 9x9 Floor Tile Mastic, Black	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-086 43A	Entryway To 1977 Addition					
	LAYER 1 Floor Tread, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mastic, Brown/Black	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-087 43B	Entryway To 1977 Addition					
	LAYER 1 Floor Tread, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mastic, Brown/Black Note: Positive Stop	LAYER 2 100%				
2346200-088 44A	Entryway To 1977 Addition					
	LAYER 1 Floor Tread, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-089 44B	Entryway To 1977 Addition					
	LAYER 1 Floor Tread, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-090 45A	Hallway 4					
	LAYER 1 12x12 Floor Tile, Tan	LAYER 1 100%	Chrysotile	3%	Cellulose Fiber Binder/Filler	1% 96%
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-091 45B	Teachers Lounge					
	LAYER 1 12x12 Floor Tile, Tan Note: Positive Stop	LAYER 1 100%				
	LAYER 2 Mastic, Tan	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-092 46A	Hallway 4					
	LAYER 1 6" Covebase, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 6" Covebase Adhesive, Brown	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



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2346200-093 46B	Hallway 4			
	LAYER 1 6" Covebase, Gray	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 6" Covebase Adhesive, Brown	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-094 47A	Entry To Addition			
	LAYER 1 Brick, Red	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Brick Mortar, Red	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-095 47B	Entry To Addition			
	LAYER 1 Brick, Red	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Brick Mortar, Red	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-096 48A	Janitors Closet			
	LAYER 1 2"x2" Ceramic Tile, Red	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 2"x2" Ceramic Tile Mortar, Red	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Mastic, Yellow	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-097 48B	Janitors Closet			
	LAYER 1 2"x2" Ceramic Tile, Red	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 2"x2" Ceramic Tile Mortar, Red	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Mastic, Yellow	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



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2346200-098 49A	Boys Bathroom (Addition)					
	LAYER 1	LAYER 1	None Detected		Cellulose Fiber	1%
	2"x2" Ceramic Tile, blu'	100%			Binder/Filler	99%
	LAYER 2	LAYER 2	None Detected		Cellulose Fiber	1%
	2"x2" Ceramic Tile Mortar, Gray	100%			Binder/Filler	99%
2346200-099 49B	Boys Bathroom (Addition)					
	LAYER 1	LAYER 1	None Detected		Cellulose Fiber	1%
	2"x2" Ceramic Tile, blu'	100%			Binder/Filler	99%
	LAYER 2	LAYER 2	None Detected		Cellulose Fiber	1%
	2"x2" Ceramic Tile Mortar, Gray	100%			Binder/Filler	99%
2346200-100 50A	Hallway 4					
	LAYER 1	LAYER 1	Chrysotile	3%	Cellulose Fiber	1%
	12x12 Floor Tile, White	100%			Binder/Filler	96%
	LAYER 2	LAYER 2	None Detected		Cellulose Fiber	1%
	Mastic, Tan	100%			Binder/Filler	99%
2346200-101 50B	Library (Addition)					
	LAYER 1	LAYER 1				
	12x12 Floor Tile, White Note: Positive Stop	100%				
2346200-102 51A	LAYER 2	LAYER 2	Chrysotile	2%	Cellulose Fiber	1%
	Mastic, Black	100%			Binder/Filler	97%
2346200-102 51A	Teachers Lounge					
	LAYER 1	LAYER 1	None Detected		Cellulose Fiber	1%
	4" Covebase, Tan	100%			Binder/Filler	99%
2346200-102 51A	LAYER 2	LAYER 2	None Detected		Cellulose Fiber	1%
	Adhesive, Brown	100%			Binder/Filler	99%



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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-103 51B	Teachers Lounge					
	LAYER 1 4" Covebase, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Adhesive, Brown	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	2346200-104 52A	Teachers Lounge Sink Undercoating, Pink	LAYER 1 100%	Chrysotile	8%	Cellulose Fiber Binder/Filler
2346200-105 52B	Library 2 (Addition) Sink Undercoating, Pink Note: Positive Stop+	LAYER 1 100%				
2346200-106 53A	Library 2 (Addition) Sink Undercoating, Black	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Binder/Filler	5% 90%
2346200-107 53B	Library 2 (Addition) Sink Undercoating, Black Note: Positive Stop	LAYER 1 100%				
2346200-108 54A	Library 2 (Addition) Ceiling Tile, Gray/White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 15% 20%
2346200-109 54B	Library 2 (Addition) Ceiling Tile, Gray/White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 15% 20%
2346200-110 55A	Library 2 (Addition) Ceiling Tile, Gray/White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 15% 20%



OPTIMUM

Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering & Science
ADDRESS: 25 Buttrick Road, Unit D2
CITY / STATE / ZIP: Londonderry NH 03053
CONTACT: Katie Snyder
DESCRIPTION: PLM Analysis
LOCATION: 17 Lake St., Spencer, MA 01562

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2346200
PROJECT #: 22445977
DATE COLLECTED:
COLLECTED BY: Tristan Stetson
DATE RECEIVED: 03/03/2023
ANALYSIS DATE: 03/16/2023
REPORT DATE: 03/20/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-111 55B	Library 2 (Addition) Ceiling Tile, Gray/White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 15% 20%
2346200-112 56A	Library 2 (Addition) Duct Sealant, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-113 56B	Library 2 (Addition) Duct Sealant, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-114 57A	Library 2 (Addition) Residual Mastic, Black	LAYER 1 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-115 57B	Library 2 (Addition) Residual Mastic, Black Note: Positive Stop	LAYER 1 100%				
2346200-116 58A	Library 2 (Addition) Wave Ceiling Texture, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-117 58B	Library 2 (Addition) Wave Ceiling Texture, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-118 58C	Library 2 (Addition) Wave Ceiling Texture, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-119 59A	Classroom 21 Chalkboard, Brown	LAYER 1	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2346200-120 59B	Classroom 23 Chalkboard, Brown Note: Positive Stop	LAYER 1				



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ORDER #: 2346200
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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-121 60A	Classroom 21 Window Caulking, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-122 60B	Classroom 22 Window Caulking, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2346200-123 61A	Hallway 3 Popcorn Ceiling Texture, White/Beige Note: Contains vermiculite.	LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Vermiculite Binder/Filler	3% 10% 82%
2346200-124 61B	Hallway 3 Popcorn Ceiling Texture, White/Beige Note: Positive Stop	LAYER 1 100%				
2346200-125 61C	Hallway 2 Popcorn Ceiling Texture, White/Beige Note: Positive Stop	LAYER 1 100%				
2346200-126 61D	Hallway 2 Popcorn Ceiling Texture, White/Beige Note: Positive Stop	LAYER 1 100%				
2346200-127 61E	Entryway/Breezeway 1st Floor Popcorn Ceiling Texture, White/Beige Note: Positive Stop	LAYER 1 100%				
2346200-128 61F	Hallway 1 Popcorn Ceiling Texture, White/Beige Note: Positive Stop	LAYER 1 100%				
2346200-129 61G	Hallway 1 Popcorn Ceiling Texture, White/Beige Note: Positive Stop	LAYER 1 100%				



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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2346200
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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2346200-130 62A	Boiler Boiler Jacket TSI, White	LAYER 1 100%	Chrysotile	65%	Cellulose Fiber Binder/Filler	10% 25%
2346200-131 62B	Boiler Boiler Jacket TSI, White Note: Positive Stop	LAYER 1 100%				
2346200-132 62C	Boiler Boiler Jacket TSI, White Note: Positive Stop	LAYER 1 100%				
2346200-133 63A	Boiler Room Pipe TSI, White	LAYER 1 100%	Amosite Crocidolite	20% 15%	Cellulose Fiber Binder/Filler	5% 60%
2346200-134 63B	Boiler Room Pipe TSI, White Note: Positive Stop	LAYER 1 100%				
2346200-135 63C	Boiler Room Pipe TSI, White Note: Positive Stop	LAYER 1 100%				
2346200-136 64A	Boiler Room Gasket, Red/Brown	LAYER 1 100%	Chrysotile	8%	Cellulose Fiber Binder/Filler	15% 77%
2346200-137 64B	Boiler Room Gasket, Red/Brown Note: Positive Stop	LAYER 1 100%				
2346200-138 65A	Boiler Room TSI Elbow, White	LAYER 1 100%	Chrysotile	75%	Cellulose Fiber Mineral Wool Binder/Filler	5% 10% 10%



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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2346200
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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-139 65B	Boiler Room TSI Elbow, White Note: Positive Stop	LAYER 1 100%		
2346200-140 65C	Boiler Room TSI Elbow, White Note: Positive Stop	LAYER 1 100%		
2346200-141 66A	Boiler Room Newer Fiberglass TSI, Yellow/White	LAYER 1 100%	None Detected	Cellulose Fiber 10% Fibrous Glass 89% Binder/Filler 1%
2346200-142 66B	Boiler Room Newer Fiberglass TSI, Yellow/White	LAYER 1 100%	None Detected	Cellulose Fiber 10% Fibrous Glass 89% Binder/Filler 1%
2346200-143 66C	Boiler Room Newer Fiberglass TSI, Yellow/White	LAYER 1 100%	None Detected	Cellulose Fiber 10% Fibrous Glass 89% Binder/Filler 1%
2346200-144 67A	Roof Near Chimney			
	LAYER 1 Foam Board, Yellow	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Fiber Board, Brown	LAYER 2 100%	None Detected	Cellulose Fiber 98% Binder/Filler 2%
	LAYER 3 Felt Paper, Black	LAYER 3 100%	None Detected	Cellulose Fiber 92% Binder/Filler 8%
	LAYER 4 Rubber Membrane, Black	LAYER 4 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 5 Fibrous Membrane, Gray/White	LAYER 5 100%	None Detected	Cellulose Fiber 2% Synthetic Fiber 35% Binder/Filler 63%



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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-145 67B	Roof Near Access			
	LAYER 1 Foam Board, Yellow	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Fiber Board, Brown	LAYER 2 100%	None Detected	Cellulose Fiber 98% Binder/Filler 2%
	LAYER 3 Felt Paper of Foam Board, Black	LAYER 3 100%	None Detected	Cellulose Fiber 5% Fibrous Glass 65% Binder/Filler 30%
	LAYER 4 Rubber Membrane, Green/Gray	LAYER 4 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 5 Tar, Black	LAYER 5 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 6 Felt Paper, Black	LAYER 6 100%	None Detected	Cellulose Fiber 92% Binder/Filler 8%
2346200-146 68A	Roof Addition Penetration Pipe Caulking, Gray	LAYER 1 100%	Chrysotile 8%	Cellulose Fiber 1% Binder/Filler 91%
2346200-147 68B	Roof Addition Penetration Pipe Caulking, Gray Note: Positive Stop	LAYER 1 100%		
2346200-148 69A	Chimney Caulking, Black	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-149 69B	Chimney Penetration Pipe Caulking, Black	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-150 70A	Roof Addition			
	LAYER 1 Foam Board, Yellow	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Membrane, White/Black	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Tar, Black	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 4 Felt Paper, Black	LAYER 4 100%	None Detected	Cellulose Fiber 92% Binder/Filler 8%



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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2346200-151 70B	Roof Addition			
	LAYER 1 Foam Board, Yellow	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Membrane, White/Black	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 3 Tar, Black	LAYER 3 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 4 Felt Paper, Black	LAYER 4 100%	None Detected	Cellulose Fiber 92% Binder/Filler 8%
2346200-152 71A	Front Entry			
	LAYER 1 Brick, Red	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Brick Mortar, Red	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-153 71B	Front Entry			
	LAYER 1 Brick, Red	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
	LAYER 2 Brick Mortar, Red	LAYER 2 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-154 72A	Front Entry Caulking Ext., White	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-155 72B	Front Entry Caulking Ext., White	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-156 73A	Front Entry Caulking Ext., White	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%
2346200-157 73B	Front Entry Caulking Ext., White	LAYER 1 100%	None Detected	Cellulose Fiber 1% Binder/Filler 99%



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CONTACT: Katie Snyder
DESCRIPTION: PLM Analysis
LOCATION: 17 Lake St., Spencer, MA 01562

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
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Analyst Signatory: 
 Jamie Noel



2346200

85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

CHAIN OF CUSTODY

Choose One:

If none selected it will be assumed Standard TAT

Analysis & TAT:	4-6 Hour	24 Hour	48 Hour	Standard (3-5)	*Standard (6-10)	Comments (please indicate other test-specific information here):
PLM (Material)			X			
Mold	N/A					
Lead	N/A					
Other: (TEM, PCB, etc.)	N/A					
Sampler: TRISTAN STETSON JACKIE BARR DATE SAMPLED:		Email: KSynder@partneresi.com tsetson@partneresi.com j.barr@partneresi.com			Positive Stop Analysis <input checked="" type="radio"/> Yes <input type="radio"/> No	
Project Manager: KATIE SYNDER		Sample Location: 17 LAKE ST. SPENCER, MA 01562			Phone Number: 22445977	
Project Information: PRE-DEMO ASBESTOS					Company Name and Address: PARTNER ENGINEERING and SCIENCE 25 BUTTRICK RD. SUITE 2D LONDONDERRY, NH	
Sample Number	Description and Location					
1A	9x9 BROWN SPECKLE TILE & BLACK MASTIC NURSE AREA					
1B	↓ ↓					
2A	6" BLACK COVE BASE & BROWN MASTIC NURSE AREA					
2B	↓ ↓					
3A	DRYWALL and JOINT COMPOUND NURSE AREA					
3B	↓ ART ROOM					

The EPA Requires that layered samples be separated; Please indicate if a sample is to be analyzed as a composite. Optimum only uses data indicated on the CoC by the client when producing the final report. If information is missing or incorrect on the COC Please contact Optimum with the correct/missing information. If turnaround time is NOT indicated the samples will be assumed as 3 to 5 day turn around.

Relinquished by: Tristan Stetson Date 3/1/23 Time 3:30pm
Katie Synder 3/3/23 1:30

Received by: Katie Date 3/3/23 Time 1:00

2346200

3C	DRYWALL and JOINT COMPOUND CLASSROOM 5
4A	BATHROOM FLOOR TILING, MORTAR, GROUT (TAN) NURSE BATHROOM
4B	↓ WOMEN'S 1ST FL BATHROOM
5A	BATHROOM WALL TILING, GROUT (TAN) HALLWAY 1
5B	↓ LIBRARY
6A	6" TAN COVE BASE & BROWN MASTIC PRINCIPLE OFFICE
6B	↓ FRONT OFFICE
7A	TAN CARPET MASTIC, 9x9 BLACK TILE (SLATE) & BLACK MASTIC PRINCIPLE OFFICE
7B	↓ ↓
8A	DARK GRAY 9"x9" TILE & BLACK MASTIC HALLWAY 1
8B	↓ CLASSROOM C
9A	CINDERBLOCK & MORTAR JANITORS CLOSET
9B	↓ ↓
10A	INT. BRICK & MORTAR LIBRARY
10B	↓ ↓
11A	WHITE WINDOW CALLKING LIBRARY
11B	↓ ↓

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Relinquished by: [Signature] Date 3/3/23 Time 1:300

Received by: [Signature] Date 3/3/23 Time 1:00

2346200

12A	4" BIVE COVE BASE & BEIGEMASTIC LIBRARY
12B	↓ ↓
13A	BIVE STAIR TREADS & WHITEMASTIC LIBRARY ENTRY STAIRS
13B	↓ ↓
14A	Red 9"x9" FLOOR TILE & BLACKMASTIC ART ROOM
14B	↓ KITCHEN
15A	Red 12"x12" FLOORTILE W/ BROWN & BLACK RESIDUAL MASTIC MASTIC ART ROOM
15B	↓ ↓
16A	6" White Cove Base ART ROOM
16B	↓ CLASSROOM 4
17A	White WINDOW CAULKING ART ROOM
17B	↓ CLASSROOM 4
18A	SOUND BOARD & BROWN GIVE DOBS FRONT HALLWAY CLOSET
18B	↓ ↓
19A	9"x9" BLACK V. DARK FLOOR & BLACKMASTIC (FAUX MARBLE) FRONT ENTRYWAY/BREEZEWAY
19B	↓ ↓
20A	4" Black Cove base & BROWN MASTIC FRONT ENTRYWAY/BREEZEWAY

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Relinquished by: Kate Snyder Date 3/13/23 Time 1:30

Received by: A. Cole Date 3/13/23 Time 1:00



2346200

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Salem, NH 03079
603-458-5247

20B	4" BLACK COVE BASE & BLACK MASTIC FRONT ENTRYWAY
21A	9" x 9" GREEN FLOOR & BLACK MASTIC ↓ Gym
21B	↓
22A	12" x 12" GREEN FLOOR TILE & BROWN W/ BLACK RESIDUAL MASTIC ↓ Gym
22B	↓
23A	GREEN WALL TILING & GROUT ↓ Gym
23 23B	↓
24A	12 x 12 TAN/BROWN FLOOR TILE (WHITESTREAK) & D. BROWN MASTIC ↓ KITCHEN
24B	↓
25A	12 x 12 BLACK FLOOR TILE & BLACK MASTIC ↓ KITCHEN
25B	↓
26A	12 x 12 WHITE FLOOR TILE & GRAY, BLACK, RED MASTIC ↓ KITCHEN
26B	↓
27A	12 x 12 YELLOWISH/BELGE FLOOR TILE & GRAY, BLACK, RED MASTIC ↓ KITCHEN
27B	↓ BATHROOM
28A	12 x 12 4" GRAY COVE BASE & CREAM MASTIC ↓ KITCHEN
28B	↓ BATHROOM

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Relinquished by: K. Singh Date 3/3/23 Time 1:00

Received by: [Signature] Date 3/3/23 Time 1:00

2346000

85 Stiles Rd, Ste. 201
Salem, NH 03079
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29A	12x12 ^{LIGHT} YELLOW FLOOR TILE & BLACK MASTIC ↓	KITCHEN WALK-IN FREEZER AREA
29B	↓	↓
30A	9x9 ^{SANDY} WHITE FLOOR TILE & BLACK MASTIC ↓	BOILER ROOM
30B	↓	↓
31A	9x9 D. BROWN TILE & BLACK MASTIC ↓	BOILER ROOM
31B	↓	↓
32A	9x9 BURNT BROWN W/ WHITE + BLACK STREAKING & WHITE MASTIC ↓	DATA LIFT AREA
32B	↓	↓
33A	9x9 STRIPPY TAN W/ BROWN STREAKING & LIGHT YELLOW MASTIC ↓	LIFT AREA
33B	↓	↓
34A	CREAM/BROWN RESIDUAL WALL MASTIC ↓	BOILER ROOM
34B	↓	↓
35A	SPEAKLED CEILING TILE (CUSTOM SIZING) SPECKLED ↓	LIFT AREA
35B	↓	↓
36A	12x12 LIGHT BLUE SPEAKLED FLOOR TILE ↓	CLASSROOM 4 (FLOOR LEVELING COMPOUND)
36B	↓	CLASSROOMS
37A	12x12 Blue Gray FLOOR TILE & MASTIC (BLACK) ↓	HALLWAY 2
37B	↓	↓

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Relinquished by: [Signature] Date 3/3/23 Time 1300

Received by: [Signature] Date 3/3/23 Time 1:00



2346200

85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

38A	BWE ceramic pattern floor (OLD) Boys upstairs bathroom
38B	↓ ↓
39A	LIGHT BLUE ceramic pattern floor (New) Boys upstairs bathroom
39B	↓ ↓
40A	PINK ceramic pattern tile floor GIRLS upstairs bathroom
40B	↓ ↓
41A	4x9 BROWN/GRAY 2nd FLOOR TILE & BLACK MASTIC CLASSROOM 6
41B	↓ SPED 1
42A	4x9 LIGHT BROWN FLOOR TILE & BLACK MASTIC W/ BROWN SPECKS CLASSROOM 7
42B	↓ ↓
43A	TAN FLOOR TRED ENTRYWAY TO 1977 addition & BLACK MASTIC
43B	↓ ↓
44A	TAN FLOOR TRED & TAN MASTIC ENTRYWAY TO 1977 addition
44B	↓ ↓
45A	12x12 TAN/BLUSH STREAKS & TAN MASTIC FLOOR TILE HALLWAY 4
45B	↓ TEACHERS LOUNGE
46A	6" Blush Cove base & DARK BROWN MASTIC
46B	↓ HALLWAY 4 ↓

The EPA Requires that layered samples be separated; Please indicate if a sample is to be analyzed as a composite. Optimum only uses data indicated on the CoC by the client when producing the final report. If information is missing or incorrect on the CoC Please contact Optimum with the correct/missing information. If turnaround time is NOT indicated the samples will be assumed as 3 to 5 day turn around.

Relinquished by: Ka Singh Date 3/3/23 Time 1300

Received by: [Signature] Date 3/3/23 Time 1:00

2346200

85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

47A	BRICK & MORTAR ENTRY TO ADDITION
47B	↓ ↓
48A	FLOOR Red 2"x2" ceramic tile, mortar, yellow mastic JANITORS CLOSET
48B	↓ ↓
49A	FLOOR Blue 2"x2" ceramic tile, mortar, yellow mastic BOYS BATHROOM (Addition)
49B	↓ ↓
50A	12x12 White w/ Gray specks floortile & yellow mastic Hallway 4
50B	↓
51A	LIBRARY 2 (Addition) 4" Tan Covebase & Black mastic TEACHERS LOUNGE
51B	↓ ↓
52A	PINK/WHITE SINK undercoating TEACHERS LOUNGE
52B	↓
53A	LIBRARY 2 (Addition) BLACK SINK undercoating LIBRARY 2 (Addition)
53B	↓ ↓
54A	Wormy patterned ceiling tile (replacement) ^{2x2} (2x4) LIBRARY 2 (addition)
54B	↓ ↓
55A	Speckled pattern ceiling tile ^{2x2} (2x4) LIBRARY 2 (addition)
55B	↓ ↓

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Relinquished by: [Signature] Date: 3/3/23 Time: 1300

Received by: [Signature] Date: 3/3/23 Time: 1:00



2346200

85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

56A	Red Duct Sealant	LIBRARY 2 (ADDITION)
56B	↓	↓
57A	Residual blackmastic, yellow carpet mastic	LIBRARY 2 (ADDITION)
57B	↓	↓
58A	wave ceiling texture	LIBRARY 2 (ADDITION)
58B	↓	↓
58C	↓	↓
59A	BROWN CHALKBOARD glue dots	CLASSROOM 21
59B	↓	CLASSROOM 23
60A	Black window caulking	CLASSROOM 21
60B	↓	CLASSROOM 22
61A	POPCORN ceiling texture	HALLWAY 3
61B	↓	HALLWAY 3
61C	↓	HALLWAY 2
61D	↓	HALLWAY 2
61E	↓	ENTRYWAY, BREEZEWAY (1ST FL)
61F	↓	HALLWAY 1
61G	↓	HALLWAY 1

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Relinquished by: K. Singh Date 3/3/23 Time 1300

Received by: Ail Date 3/3/23 Time 1:00



2346200

85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

62A	BOILER JACKET TSI	
62B	↓	BOILER
62C	↓	↓
63A	PIPE TSI, chunky w/ JACKET (OLD PIPES)	BOILER ROOM
63B	↓	↓
63C	↓	↓
64A	Red Gasket	BOILER ROOM
64B	↓	↓
65A	White chunky TSI elbows	BOILER ROOM
65B	↓	↓
65C	↓	↓
66A	NEWER Fiberglass TSI	BOILER ROOM
66B	↓	↓
66C	↓	↓
67A	OLD ROOFING SECTION ROOF CORE	NEAR CHIMNEY
67B	↓	NEAR ROOF ACCESS
68A	White penetration pipe caulking (2" pipes)	ADDITION ROOF
68B	↓	↓

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Relinquished by [Signature] Date 3/3/23 Time 1:00

Received by: [Signature] Date 3/3/23 Time 1:00



2346200

85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

69A	BLACK CAULKING (MISC.)
	↓ CHIMNEY
69B	↓ 4" PENETRATION PIPE
70A	WHITE RUBBERIZED ROOFING COLE (ADDITION) ROOF ADDITION
70B	↓ ↓
71A	BRICK and MORTAR (EXT.)
	↓ ENTRY (FRONT)
71B	↓ ↓
72A	WHITE CAULKING EXT. (OLD)
72B	↓
73A	WHITE CAULKING EXT. (NEW)
73B	↓

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Relinquished by: Kate Snyder Date 3/3/23 Time 1:30

Received by: [Signature] Date 3/3/23 Time 1:00



Ray Lavery
Partner Engineering and Science
1090 Elm Street, Suite 100
Rocky Hill CT 06067

Project Reference: 22-445977
Laboratory Batch #: 2347631
Date Samples Received: 06/27/2023
Date Samples Analyzed: 07/03/2023
Date of Final Report: 07/03/2023

SAMPLE IDENTIFICATION:

Twenty Nine (29) samples from Lake Street School, 17 Lake Street project were submitted by Client on 06/27/2023

This bulk sample(s) was delivered to Optimum Analytical Consulting, LLC (Optimum) located in Salem, New Hampshire for asbestos content determination.

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter (<0.25µm) may not be detected by the PLM method. Floor tile and other resinous bound materials may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additionally, there is currently no approved EPA analytical method to reliably confirm vermiculite as non-asbestos containing. Additional analytical methods may be required. Optimum Analytical recommends using Transmission Electron Microscopy (TEM) or other approved methods for a more definitive analysis.

Optimum will retain all samples for a minimum of three months. Further analysis or return of samples must be requested within this three month period to guarantee their availability. This report may not be reproduced except in full, without the written approval of Optimum Analytical and Consulting, LLC.

The client/laboratory shall not use the NVLAP and AIHA Logo or this test report in a way that constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Point Count = .25%, 1000 Point Count = 0.1%; Present or Absent are observations made during a qualitative analysis.

This report is considered preliminary until signed by both the Laboratory Analyst and Laboratory Director or Supervisor. If you have any questions regarding this report, please do not hesitate to contact us.

Jamie L. Noel
Laboratory Director



BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering and Science
ADDRESS: 1090 Elm Street, Suite 100
CITY / STATE / ZIP: Rocky Hill CT 06067
CONTACT: Ray Lavery
DESCRIPTION: PLM Analysis
LOCATION: Lake Street School, 17 Lake Street

ORDER #: 2347631
PROJECT #: 22-445977
DATE COLLECTED: 06/26/2023
COLLECTED BY: Client
DATE RECEIVED: 06/27/2023
ANALYSIS DATE: 07/03/2023
REPORT DATE: 07/03/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2347631-001 74A	North Ext.(Street)					
	Window Glazing, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2347631-002 74B	South Ext. (Parking)					
	Window Glazing, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2347631-003 75A	North Ext.(Street)					
	LAYER 1	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	Rough Coat, Gray					
	LAYER 2	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2347631-004 75B	West Ext. (Exit New)					
	LAYER 1	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	Rough Coat, Gray					
	LAYER 2	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2347631-005 76A	North Ext.(Street)					
	LAYER 1	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	Plaster Roofing Panel, Gray/Tan					
	LAYER 2	LAYER 2 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
2347631-006 76B	Courtyard					
	Plaster Roofing Panel, Gray/Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2347631-007 76C	Library Ext.					
	Plaster Roofing Panel, Gray/Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2347631-008 77A	North Ext.					
	Tar on Black Window Frame (New), Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%



OPTIMUM

Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering and Science
ADDRESS: 1090 Elm Street, Suite 100
CITY / STATE / ZIP: Rocky Hill CT 06067
CONTACT: Ray Lavery
DESCRIPTION: PLM Analysis
LOCATION: Lake Street School, 17 Lake Street

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2347631
PROJECT #: 22-445977
DATE COLLECTED: 06/26/2023
COLLECTED BY: Client
DATE RECEIVED: 06/27/2023
ANALYSIS DATE: 07/03/2023
REPORT DATE: 07/03/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2347631-009 77B	Courtyard Tar on Black Window Frame (New), Black	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-010 78A	North Ext. Joint Caulking (New), Gray	LAYER 1 100%	Chrysotile 2%	Cellulose Fiber Binder/Filler 1% 97%
2347631-011 78B	West Ext. Joint Caulking (New), Gray Note: Positive Stop	LAYER 1 100%		
2347631-012 79A	West Ext. Window To Door Glazing, Gray	LAYER 1 100%	Chrysotile 5%	Cellulose Fiber Binder/Filler 1% 94%
2347631-013 79B	West Ext. Window To Door Glazing, Gray Note: Positive Stop	LAYER 1 100%		
2347631-014 80A	Courtyard Metal Grate Sealant, Gray/Tan	LAYER 1 100%	Chrysotile 3%	Cellulose Fiber Binder/Filler 1% 96%
2347631-015 80B	Courtyard Metal Grate Sealant, Gray/Tan Note: Positive Stop	LAYER 1 100%		
2347631-016 81A	Stage Multi-Purpose Paper Underlayment, Gray	LAYER 1 100%	Chrysotile 90%	Cellulose Fiber Binder/Filler 8% 2%
2347631-017 81B	Stage Multi-Purpose Paper Underlayment, Gray Note: Positive Stop	LAYER 1 100%		
2347631-018 82A	Art Room Countertop Laminate, White/Brown	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 80% 20%



OPTIMUM

Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering and Science
ADDRESS: 1090 Elm Street, Suite 100
CITY / STATE / ZIP: Rocky Hill CT 06067
CONTACT: Ray Lavery
DESCRIPTION: PLM Analysis
LOCATION: Lake Street School, 17 Lake Street

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2347631
PROJECT #: 22-445977
DATE COLLECTED: 06/26/2023
COLLECTED BY: Client
DATE RECEIVED: 06/27/2023
ANALYSIS DATE: 07/03/2023
REPORT DATE: 07/03/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2347631-019 82B	Art Room Countertop Laminate, White/Brown	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 80% 20%
2347631-020 83A	CR1 Tackboard Adhesive, Brown	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-021 83B	CR2 Tackboard Adhesive, Brown	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-022 84A	CR 1 Chalk Board DOB (Old), Brown	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-023 84B	CR 2 Chalk Board DOB (Old), Brown	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-024 85A	2nd Floor Hallway Glazing Visibility Window, Black	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-025 85B	1st Floor Entryway Glazing Visibility Window, Black	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 1% 99%
2347631-026 85-A	Bulk Material, White	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 10% 90%
2347631-027 85-B	Bulk Material, White	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 10% 90%
2347631-028 86A	2nd Floor (Addition) Fibrous Ceiling Panel, Tan/White	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler 98% 2%



OPTIMUM

Analytical and Consulting, LLC

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CLIENT: Partner Engineering and Science
ADDRESS: 1090 Elm Street, Suite 100
CITY / STATE / ZIP: Rocky Hill CT 06067
CONTACT: Ray Lavery
DESCRIPTION: PLM Analysis
LOCATION: Lake Street School, 17 Lake Street

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2347631
PROJECT #: 22-445977
DATE COLLECTED: 06/26/2023
COLLECTED BY: Client
DATE RECEIVED: 06/27/2023
ANALYSIS DATE: 07/03/2023
REPORT DATE: 07/03/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
2347631-029 86B	2nd Floor (Addition) Fibrous Ceiling Panel, Tan/White	LAYER 1 100%	None Detected	Cellulose Fiber 98% Binder/Filler 2%

Analyst Signatory: 
 Jamie Noel


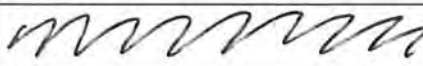



2347631

Project:	LAKE STREET SCHOOL	Project Number:	22-445977
Address:	17 LAKE STREET		
Inspector(s):	TRISTAN STETSON, RAY LAVERY	rlavery@partneresi.com tstetson@partneresi.com	
Date(s):	6/26/23	TAT:	24HRS
Sample ID	Sample Material	Location(s)	Quantity/Notes
74A	WHITE WINDOW GLAZING	NORTH EXT (STREET)	See map
74B	↓	SOUTH EXT (PARKING)	
75A	ROUGH COAT (GRAY), TEXTURED COAT PLASTER (WHITE)	NORTH EXT (STREET)	
75B	↓	WEST EXT (EXIT NEW)	
76A	TAN PLASTER ROOFING PANEL	NORTHEXT (STREET)	
76B	↓	COURTYARD	
76C	↓	LIBRARY EXT.	
77A	BLACK TAR ON BLACK WINDOW FRAME (NEW)	NORTH EXT	
77B	↓	LIBRARY COURTYARD	
78A	GRAY JOINT CAULKING (NEW)	WEST EXT. NORTH	
78B	↓	WEST EXT.	
79A	GRAY WINDOW TO DOOR GLAZING	WEST EXT.	

File 6/27/23 8:00

2347631

Project:	LAKE STREET SCHOOL	Project Number: 22-445977	
Address:	17 Lake street		
Inspector(s):	TS, RL		
Date(s):	6/26/23	TAT: 24HRS	
Sample ID	Sample Material	Location(s)	Quantity/Notes
79B	GRAY WINDOW TO DOOR glazing	WEST EXT.	
80A	GRAY METAL GRATE SEALANT	COURTYARD	
80B	↓	↓	
81A	PAPER UNDERLAYMENT	Stage, multipurpose	45x18 FT
81B	↓	↓	↓
82A	COUNTERTOP LAMINANT	ART ROOM	
82B	↓		
83A	TACK BOARD ADHESIVE (BROWN)	CP 1	
83B	↓	CP 2	
83C			
84A	BROWN CHALK BOARD DOB (OLD)	CP 1	
84B	↓	CP 2	

RL 6/27/23 8:00

2347631

Project:	LAKE STREET SCHOOL	Project Number: 22-445977	
Address:	17 LAKE STREET		
Inspector(s):	TRISTAN STETSON, RAY LAVERY		
Date(s):	6/26/23	TAT: 24 HRS	
Sample ID	Sample Material	Location(s)	Quantity/Notes
85A	Black glazing visibility window	2ND FL HALLWAY	6 DOORS
85B	Hallway 2ND FLOOR ↓	↓ 1ST FL ENTRYWAY	↓ 4 DOORS
86A	FIBEROUS ceiling panel	2ND FL (ADDITION)	
86B	↓		
85-A			
85-B			

10 total

6/27/23 8:00



Ray Lavery
Partner Engineering and Science
1090 Elm Street, Suite 100
Rocky Hill CT 06067

Project Reference: 22-445977
Laboratory Batch #: 2347802
Date Samples Received: 07/12/2023
Date Samples Analyzed: 07/12/2023
Date of Final Report: 07/12/2023

SAMPLE IDENTIFICATION:

Two (2) samples from 17 Lake St., Spencer, MA project were submitted by Tristan Stetson on 07/12/2023

This bulk sample(s) was delivered to Optimum Analytical Consulting, LLC (Optimum) located in Salem, New Hampshire for asbestos content determination.

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter (<0.25µm) may not be detected by the PLM method. Floor tile and other resinous bound materials may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additionally, there is currently no approved EPA analytical method to reliably confirm vermiculite as non-asbestos containing. Additional analytical methods may be required. Optimum Analytical recommends using Transmission Electron Microscopy (TEM) or other approved methods for a more definitive analysis.

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Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Point Count = .25%, 1000 Point Count = 0.1%; Present or Absent are observations made during a qualitative analysis.

This report is considered preliminary until signed by both the Laboratory Analyst and Laboratory Director or Supervisor. If you have any questions regarding this report, please do not hesitate to contact us.

Jamie L. Noel
Laboratory Director



OPTIMUM

Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering and Science
ADDRESS: 1090 Elm Street, Suite 100
CITY / STATE / ZIP: Rocky Hill CT 06067
CONTACT: Ray Lavery
DESCRIPTION: PLM Analysis
LOCATION: 17 Lake St., Spencer, MA

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2347802
PROJECT #: 22-445977
DATE COLLECTED: 07/07/2023
COLLECTED BY: Tristan Stetson
DATE RECEIVED: 07/12/2023
ANALYSIS DATE: 07/12/2023
REPORT DATE: 07/12/2023
ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2347802-001 87A	Ext. Weatherization Coating (1977), Black	LAYER 1 100%	Chrysotile	8%	Cellulose Fiber Binder/Filler	2% 90%
2347802-002 87B	Ext. Weatherization Coating (1977), Black	LAYER 1 100%	Chrysotile	8%	Cellulose Fiber Binder/Filler	2% 90%

**Analyst
Signatory:**

Jamie Noel



NVLAP Lab Code: 101433-0



OPTIMUM

Analytical and Consulting, LLC

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Partner Engineering and Science
ADDRESS: 1090 Elm Street, Suite 100
CITY / STATE / ZIP: Rocky Hill CT 06067
CONTACT: Ray Lavery
DESCRIPTION: PLM Analysis
LOCATION: 17 Lake St., Spencer, MA

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2347802
PROJECT #: 22-445977
DATE COLLECTED: 07/07/2023
COLLECTED BY: Tristan Stetson
DATE RECEIVED: 07/12/2023
ANALYSIS DATE: 07/12/2023
REPORT DATE: 07/12/2023
ANALYST: Jamie Noel



85 Stiles Rd, Ste. 201
Salem, NH 03079
603-458-5247

CHAIN OF CUSTODY

Please fill in all Highlighted Areas

Choose One:

2347802

Analysis & TAT:	4-6 Hour	24 Hour	48 Hour	Standard (3-5)	Comments (please indicate other test-specific information here)
PLM (Material)	ASAP				
Mold	N/A				
Lead	N/A				
Other: (TEM, PCB, etc.)	N/A				
Sampler: TRISTAN STETSON DATE SAMPLED: 7/12/23	Email: tstetson@partneresi.com rlavery@partneresi.com			COM Positive Stop Analysis	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Project Manager: RAY LAVERY	Sample Location: see below			Phone Number: 603 309 7024	
Project Information: 17 LAKE ST, SPENCER, MA 22-445977				Company Name and Address: PARTNER ENGINEERING 495 OLD CONNECTICUT PATH, FRAMINGHAM MA 01701	
Sample Number	Description and Location				
87A	BLACK EXT. WEATHERIZATION COATING (1977)				
87B	↓				

The EPA Requires that layered samples be separated; Please indicate if a sample is to be analyzed as a composite. Optimum only uses data indicated on the CoC by the client when producing the final report. If information is missing or incorrect on the CoC Please contact Optimum with the correct/missing information. If turnaround time is NOT indicated the samples will be assumed as 3 to 5 day turn around.

Relinquished by [Signature] Date 7/12/23 Time 9:30am Received by [Signature] Date 7/12/23 Time 10:11



New England Testing Laboratory, Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 3C06034
Client Project: 22-445977 - Lake St, Spencer, MA

Report Date: 09-March-2023

Prepared for:

Jackie Barr
Partner Engineering & Science Inc
490 Old Connecticut Path
Framingham, MA 01701

Richard Warila, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
rich.warila@newenglandtesting.com

Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 03/06/23. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 3C06034. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
3C06034-01	PCB-1	Solid (Misc)	02/27/2023	03/06/2023
3C06034-02	PCB-2	Solid (Misc)	02/27/2023	03/06/2023
3C06034-03	PCB-3	Solid (Misc)	02/27/2023	03/06/2023
3C06034-04	PCB-4	Solid (Misc)	02/27/2023	03/06/2023
3C06034-05	PCB-5	Solid (Misc)	02/27/2023	03/06/2023

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

PCB-1 (Lab Number: 3C06034-01)

Analysis

PCBs (Soxhlet)

Method

EPA 8082A

PCB-2 (Lab Number: 3C06034-02)

Analysis

PCBs (Soxhlet)

Method

EPA 8082A

PCB-3 (Lab Number: 3C06034-03)

Analysis

PCBs (Soxhlet)

Method

EPA 8082A

PCB-4 (Lab Number: 3C06034-04)

Analysis

PCBs (Soxhlet)

Method

EPA 8082A

PCB-5 (Lab Number: 3C06034-05)

Analysis

PCBs (Soxhlet)

Method

EPA 8082A

Method References

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

Results: Polychlorinated Biphenyls (PCBs)

Sample: PCB-1

Lab Number: 3C06034-01 (Non-soil solid, as received basis)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1221	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1232	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1242	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1248	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1254	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1260	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1262	ND		1130	ug/kg	03/07/23	03/09/23
Aroclor-1268	ND		1130	ug/kg	03/07/23	03/09/23
PCBs (Total)	ND		1130	ug/kg	03/07/23	03/09/23
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	99.1%		30-100		03/07/23	03/09/23
<i>Decachlorobiphenyl (DCBP)</i>	95.0%		30-105		03/07/23	03/09/23

Results: Polychlorinated Biphenyls (PCBs)

Sample: PCB-2

Lab Number: 3C06034-02 (Non-soil solid, as received basis)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1221	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1232	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1242	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1248	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1254	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1260	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1262	ND		3430	ug/kg	03/07/23	03/09/23
Aroclor-1268	ND		3430	ug/kg	03/07/23	03/09/23
PCBs (Total)	ND		3430	ug/kg	03/07/23	03/09/23
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	93.8%		30-100		03/07/23	03/09/23
<i>Decachlorobiphenyl (DCBP)</i>	88.5%		30-105		03/07/23	03/09/23

Results: Polychlorinated Biphenyls (PCBs)

Sample: PCB-3

Lab Number: 3C06034-03 (Non-soil solid, as received basis)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1221	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1232	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1242	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1248	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1254	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1260	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1262	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1268	ND		2930	ug/kg	03/07/23	03/09/23
PCBs (Total)	ND		2930	ug/kg	03/07/23	03/09/23
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	77.6%		30-100		03/07/23	03/09/23
<i>Decachlorobiphenyl (DCBP)</i>	84.0%		30-105		03/07/23	03/09/23

Results: Polychlorinated Biphenyls (PCBs)

Sample: PCB-4

Lab Number: 3C06034-04 (Non-soil solid, as received basis)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1221	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1232	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1242	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1248	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1254	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1260	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1262	ND		1140	ug/kg	03/07/23	03/09/23
Aroclor-1268	ND		1140	ug/kg	03/07/23	03/09/23
PCBs (Total)	ND		1140	ug/kg	03/07/23	03/09/23
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	99.8%		30-100		03/07/23	03/09/23
<i>Decachlorobiphenyl (DCBP)</i>	98.3%		30-105		03/07/23	03/09/23

Results: Polychlorinated Biphenyls (PCBs)

Sample: PCB-5

Lab Number: 3C06034-05 (Non-soil solid, as received basis)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1221	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1232	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1242	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1248	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1254	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1260	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1262	ND		2930	ug/kg	03/07/23	03/09/23
Aroclor-1268	ND		2930	ug/kg	03/07/23	03/09/23
PCBs (Total)	ND		2930	ug/kg	03/07/23	03/09/23
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	74.3%		30-100		03/07/23	03/09/23
<i>Decachlorobiphenyl (DCBP)</i>	96.8%		30-105		03/07/23	03/09/23

Notes and Definitions

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

Chain of Custody No.

Multiple COC's Yes No
1 of 1



3 C 0 6034 C

317 Elm Street Milford, NH 03055
(603) 673-5440/ Fax (603) 673-0366

A CUSTOMER INFORMATION **C SAMPLE INFORMATION**

CUSTOMER: _____
ADDRESS: 25 Buttrick Rd Suite 2D
CITY/STATE/ZIP: Concord NH
TELEPHONE: (603) 965-3810
REPORT TO: K Snyder @ partners.com
EMAIL TO: Jbarr @ partners.com ; TStetson @ partners.com

JOB NAME: Context Studios
JOB NUMBER: 22445977
LOCATION: Flake St Spencer MA
INVOICE EMAIL: AP @ partners.com
INVOICE TO: _____
P.O. NUMBER: _____

TURNAROUND TIME: (CIRCLE ONE):
10 DAY STANDARD RUSH (MUST BE PRE-APPROVED)
7 day 5 day 4 day 3 day 2 day 1 day Same Day
MCP YES GWI GW3
 NO GW2

STATION # D	SAMPLE IDENTIFICATION & LOCATION E	COLLECTED		SAMPLE TYPE		MATRIX SOLID (S) GROUND WATER (G) DRINKING WATER (D) WASTE WATER (W)	# OF CONTAINERS J	CONTAINER AND PRESERVATIVE K	ANALYSIS L
		DATE F	TIME G	GRAB H	COMP				
	PCB-1	2/27/23		X			1	X	PCB - Soxhlet
	PCB-2	2/27/23		X			1	X	PCB - Soxhlet
	PCB-3	2/27/23		X			1	X	PCB - Soxhlet
	PCB-4	2/27/23		X			1	X	PCB - Soxhlet
	PCB-5	2/27/23		X			1	X	PCB - Soxhlet
		DATE	TIME						
		DATE	TIME						
		DATE	TIME						

M CUSTODY SAMPLER: Jackie Barr DATE: _____ MILITARY TIME: _____
SIGNATURE: _____
RELINQUISHED: Kate Snyder DATE: 3/3/23 TIME: 12:35
RECEIVED: Shon Patten DATE: 3/3/23 TIME: 12:35
RELINQUISHED: Shon Patten DATE: 3/3/23 TIME: 14:55
RECEIVED FOR LAB: [Signature] DATE: 3/10/23 TIME: 12:33

SAMPLE CHECK LIST:
RECEIVED WITHIN HOLD TIME YES OR NO
RECEIVED IN GOOD CONDITION YES OR NO
TEMP BLANK 3 °C
SHIPPED OR HAND DELIVERED
SAMPLES WERE PROPERLY PRESERVED YES NO N/A
SAMPLES WERE FILTERED IN FIELD LAB N/A
IF NO EXPLAIN:

FIELD READING(S) & COMMENTS:

GROUP # _____

Chain of Custody No.

Multiple COC's Yes **No**
1 of 1



317 Elm Street Milford, NH 03055
(603) 673-5440/ Fax (603) 673-0366

A CUSTOMER INFORMATION **C SAMPLE INFORMATION**

CUSTOMER: _____
ADDRESS: 25 Buttrick Rd suite 2D
CITY/STATE/ZIP: Concord NH
TELEPHONE: (603) 965-3810
REPORT TO: Ksnnyder@partners.com
EMAIL TO: Jbarr@partners.com ; TStetson@partners.com

JOB NAME: Context Studios
JOB NUMBER: 22445977
LOCATION: Flake St Spencer MA
INVOICE EMAIL: AP@partners.com
INVOICE TO: _____
P.O. NUMBER: _____

TURNAROUND TIME: (CIRCLE ONE):
10 DAY STANDARD RUSH (MUST BE PRE-APPROVED)
7day 5 day 4 day 3 day 2 day 1 day Same Day
MCP YES GW1 GW3
 NO GW2

STATION # D	SAMPLE IDENTIFICATION & LOCATION E	COLLECTED		SAMPLE TYPE H	COMP	MATRIX SOLID (S) GROUND WATER (G) DRINKING WATER (D) WASTE WATER (W)	# OF CONTAINERS J	CONTAINER AND PRESERVATIVE K																ANALYSIS L	
		DATE F	TIME G																						
	PCB-1	2/27/23		X			1	X																	PCB-soxhlet
	PCB-2	2/27/23		X			1	X																	PCB - soxhlet
	PCB-3	2/27/23		X			1	X																	PCB - soxhlet
	PCB-4	2/27/23		X			1	X																	PCB - soxhlet
	PCB-5	2/27/23		X			1	X																	PCB - soxhlet
		DATE	TIME																						
		DATE	TIME																						
		DATE	TIME																						

CUSTODY SAMPLER: Jackie Barr
 SIGNATURE: Jackie Barr
 RELINQUISHED: Kate Snyder DATE: 3/3/23 TIME: 12:35
 RECEIVED: Shan Pelm DATE: 3/3/23 TIME: 12:35
 RELINQUISHED: Shan Pelm DATE: 3/3/23 TIME: 14:55
 RECEIVED FOR LAB: [Signature] DATE: 3/6/23 TIME: 10:33

SAMPLE CHECK LIST:
 RECEIVED WITHIN HOLD TIME YES OR NO
 RECEIVED IN GOOD CONDITION YES OR NO
 TEMP BLANK 3 °C
 SHIPPED OR HAND DELIVERED
 SAMPLES WERE PROPERLY PRESERVED YES NO N/A
 SAMPLES WERE FILTERED IN FIELD LAB N/A
 IF NO EXPLAIN:
 GROUP #

FIELD READING(S) & COMMENTS:
4 day flush per Evan

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc.

Project #: 22-445977

Project Location: Spencer, MA

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
3C06034

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A <input type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	MassDEP VPH (GC/PID/FID) CAM IV A <input type="checkbox"/>	8082 PCB CAM V A <input checked="" type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	MassDEP VPH (GC/MS) CAM IV C <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	MassDEP APH CAM IX A <input type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	MassDEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: 

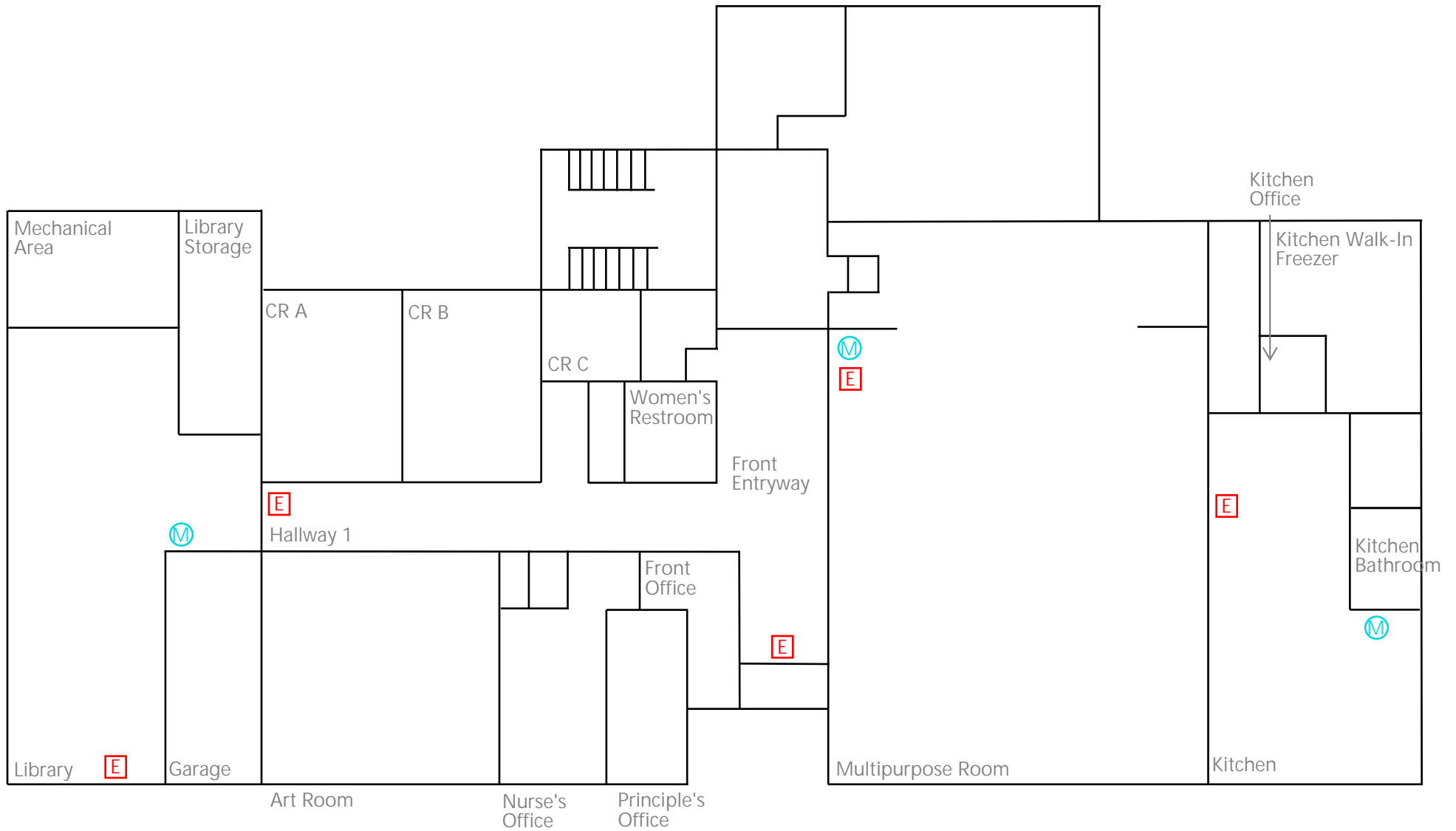
Position: Laboratory Director

Printed Name: Richard Warila

Date: 3/9/2023

APPENDIX B: SAMPLE LOCATION DIAGRAMS

22-445977 - Lake Street School Universal Hazardous Waste Survey
 Appendix B - Sample Location Diagram (1956 First-Floor)



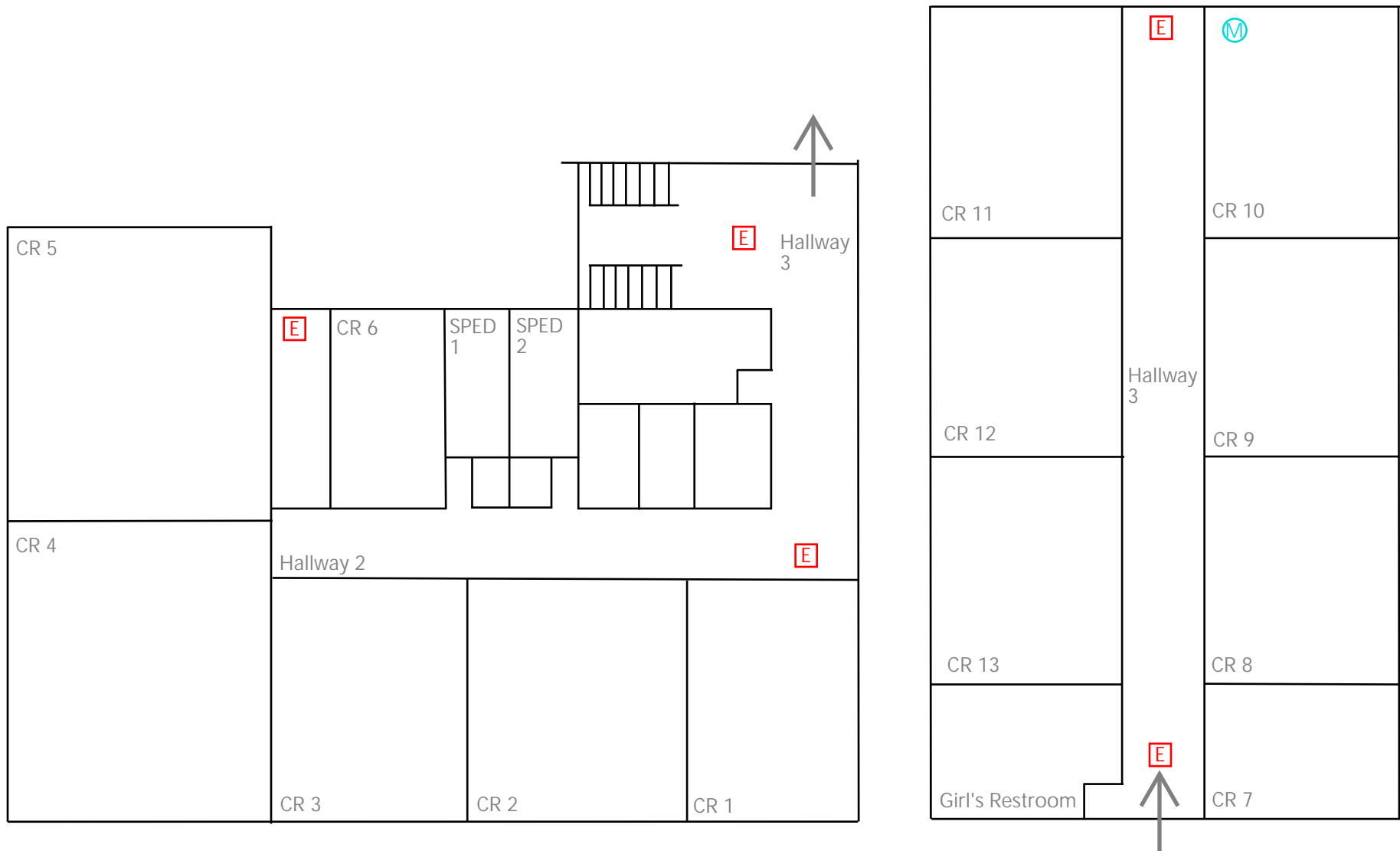
APPENDIX B: SAMPLE LOCATION DIAGRAM
 Project No. 22-445977

Key:

- Mercury Thermostat
- Exit Sign

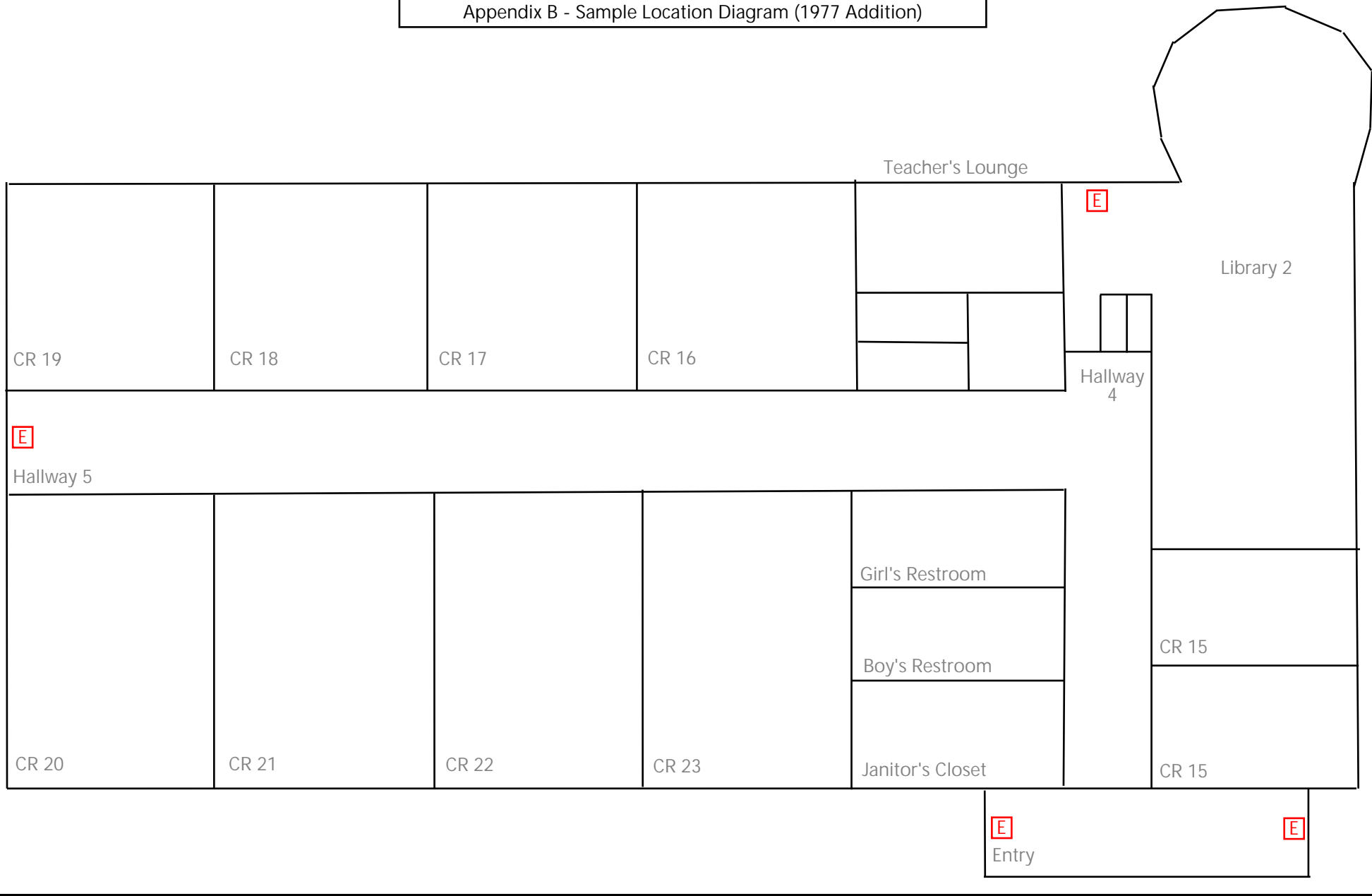


22-445977 - Lake Street School Universal Hazardous Waste Survey
 Appendix B - Sample Location Diagram (1956 Second-Floor)



Key:
 Mercury Thermostat
 Exit Sign

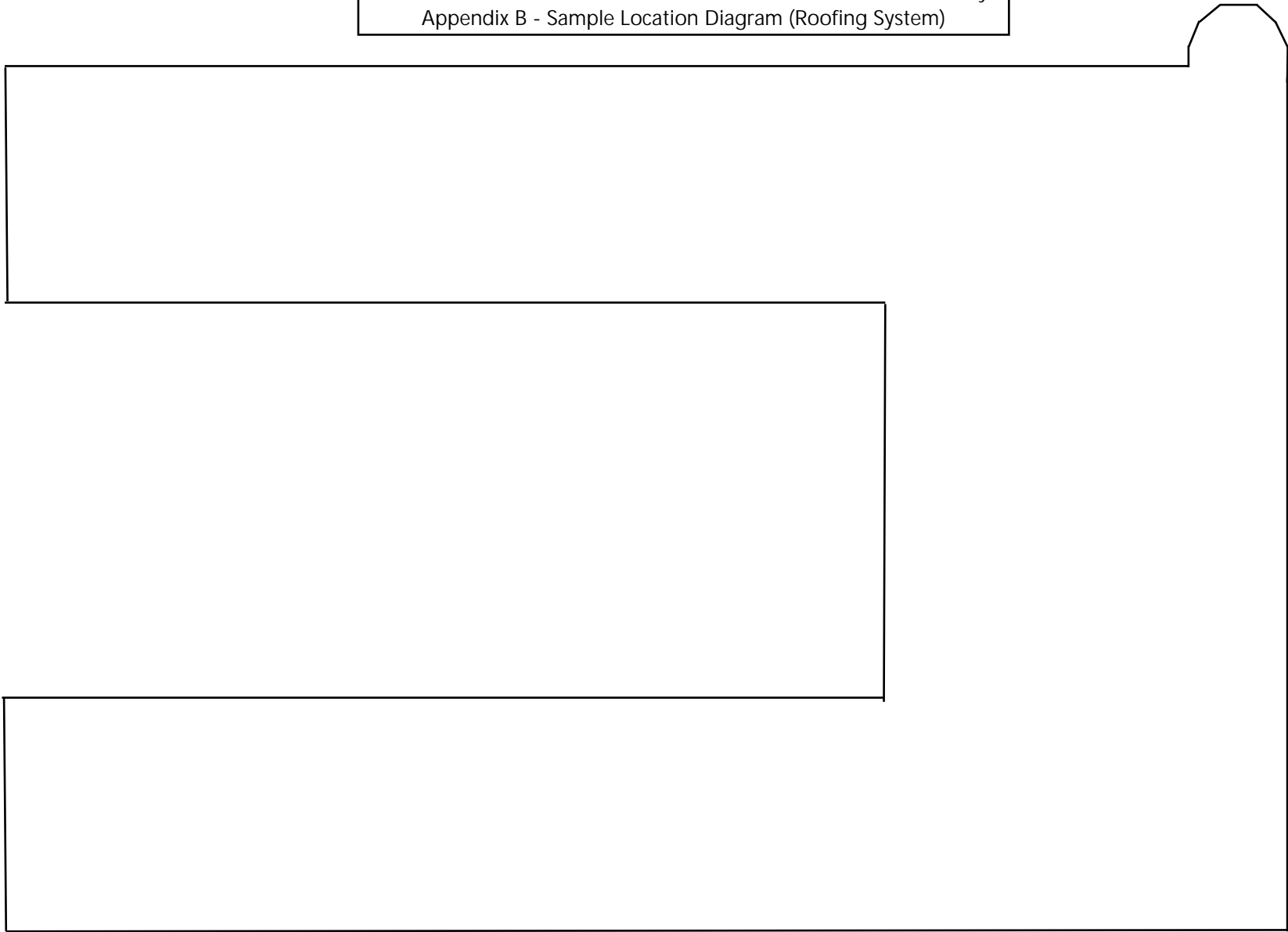
22-445977 - Lake Street School Universal Hazardous Waste Survey
 Appendix B - Sample Location Diagram (1977 Addition)



Key:
 Mercury Thermostat
 Exit Sign



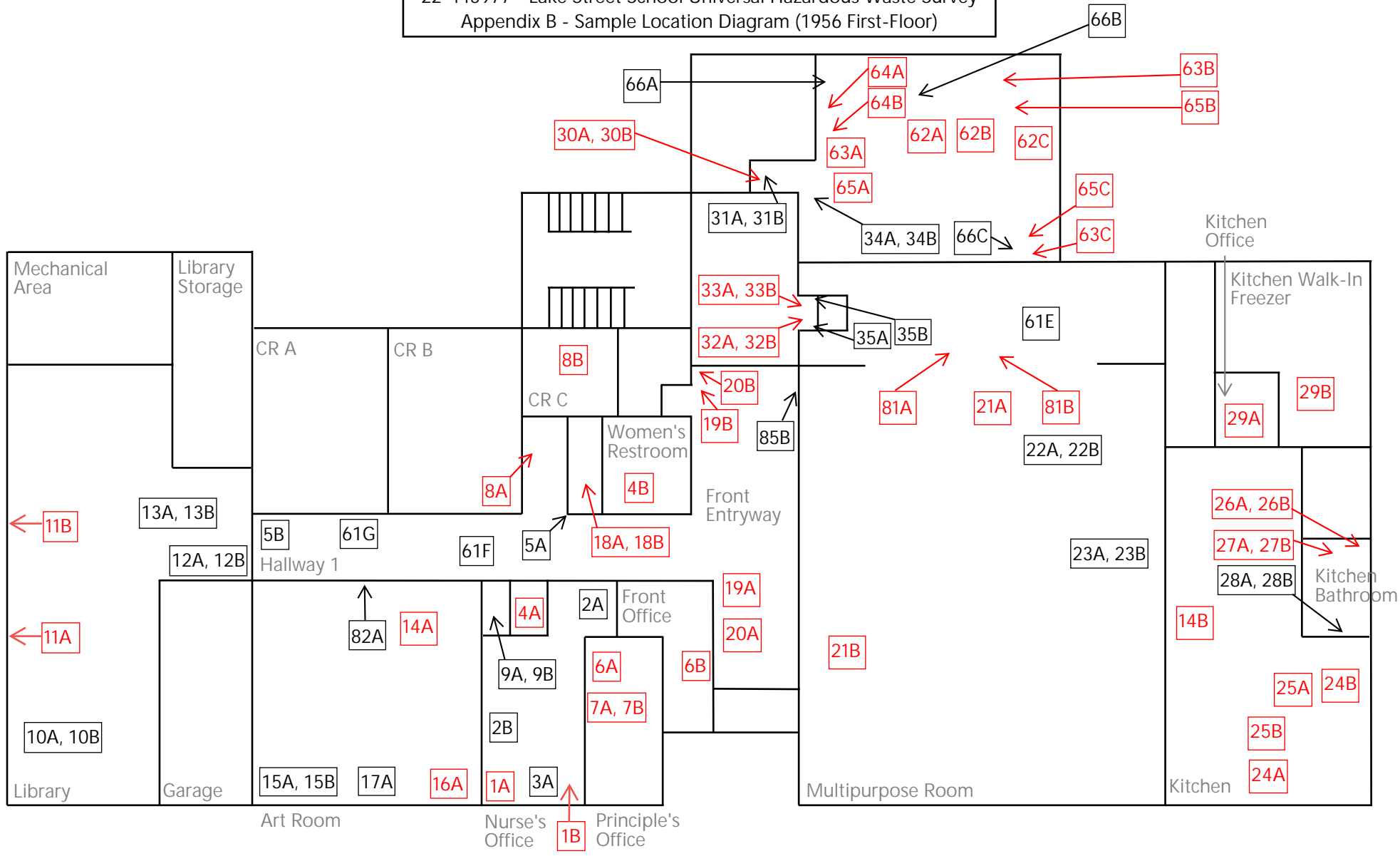
22-445977 - Lake Street School Universal Hazardous Waste Survey
Appendix B - Sample Location Diagram (Roofing System)



Key:

-  Mercury Thermostat
-  Exit Sign

22-445977 - Lake Street School Universal Hazardous Waste Survey
Appendix B - Sample Location Diagram (1956 First-Floor)



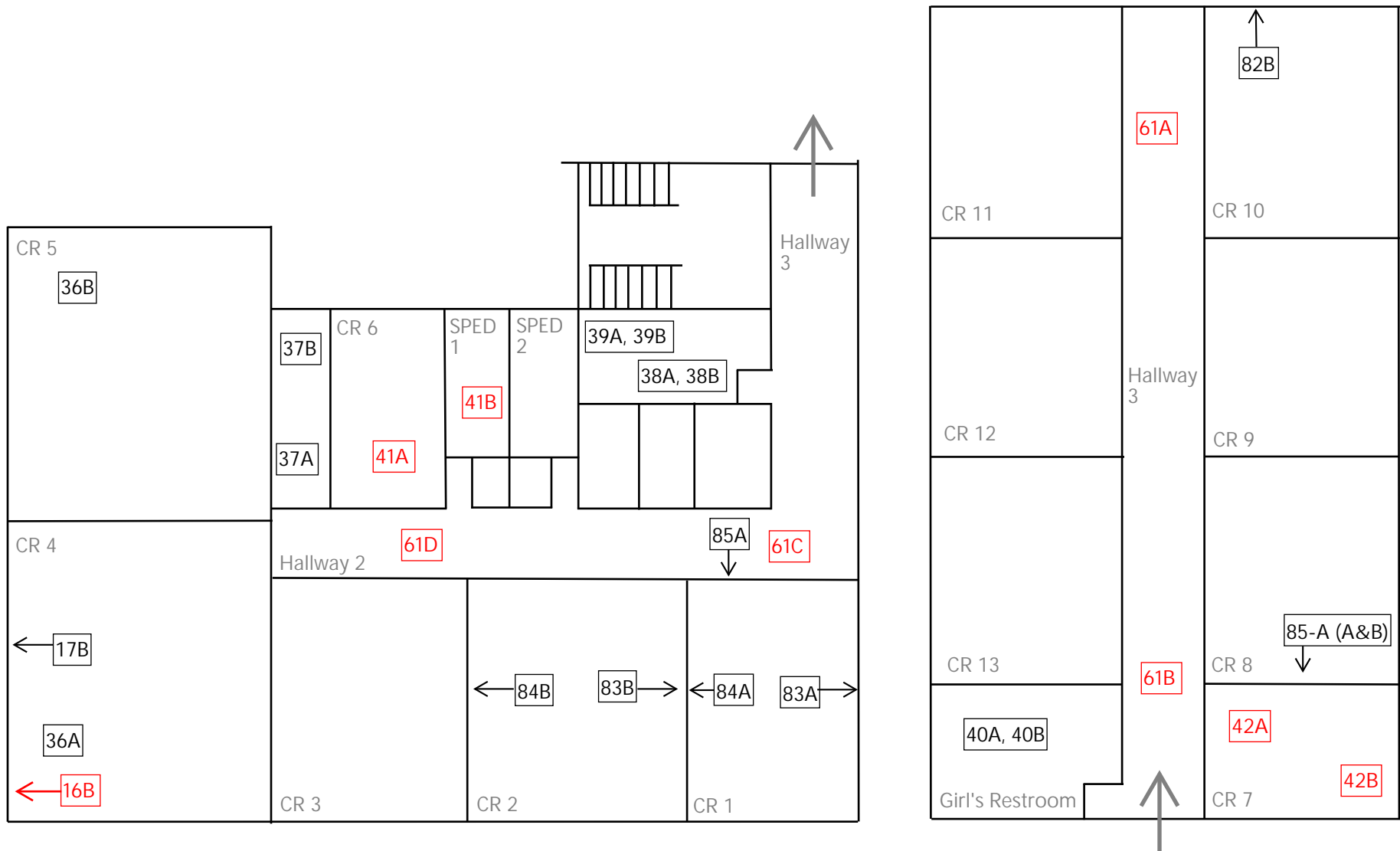
APPENDIX B: SAMPLE LOCATION DIAGRAM
Project No. 22-445977

Key:

- ← ACM (≥1% Asbestos)
- ← Trace ACM (<1%)
- ← NAD (No Asbestos Detected)



22-445977 - Lake Street School Universal Hazardous Waste Survey
 Appendix B - Sample Location Diagram (1956 Second-Floor)



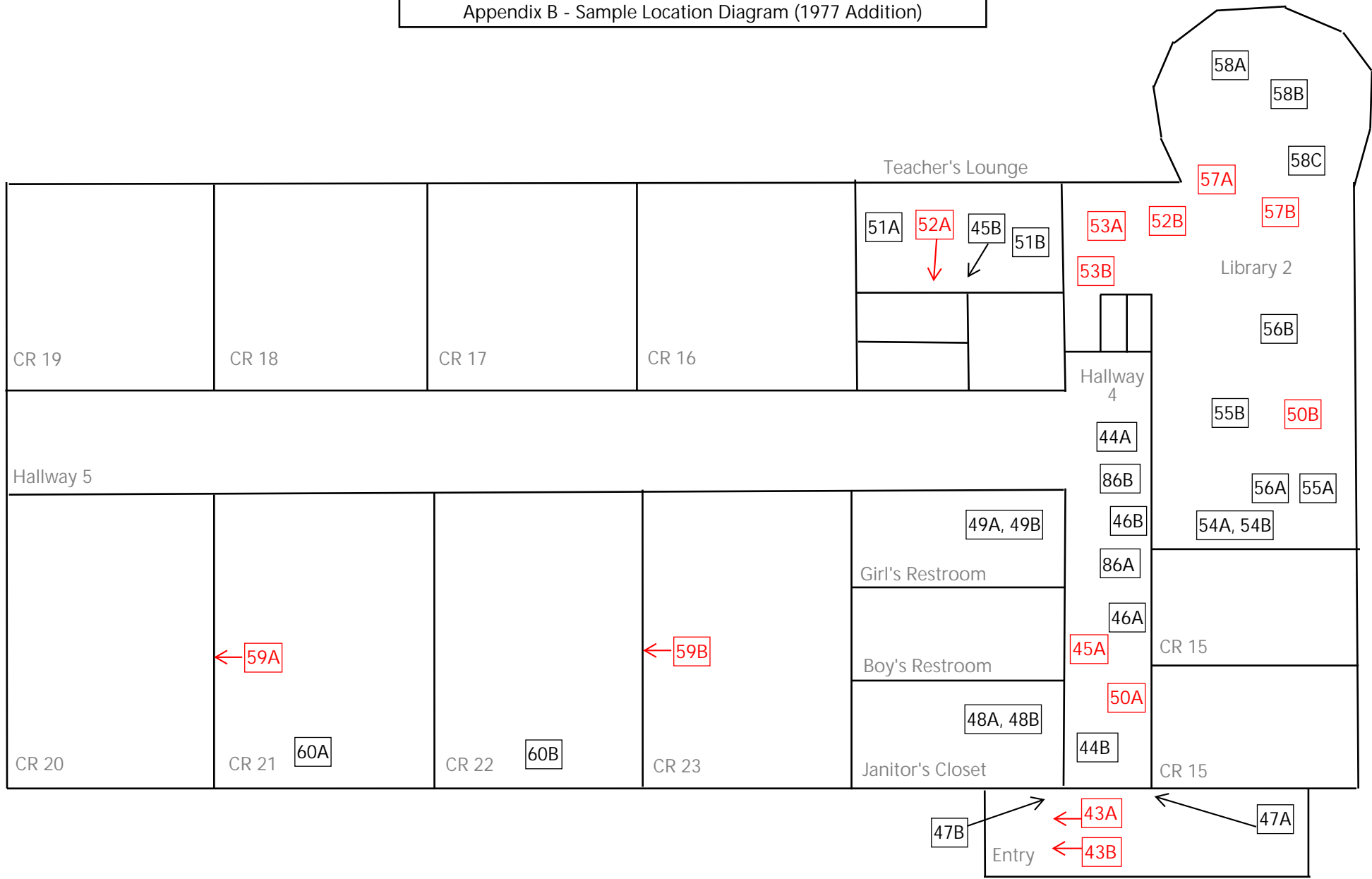
APPENDIX B: SAMPLE LOCATION DIAGRAM
 Project No. 22-445977

Key:

- ← ACM (≥1% Asbestos)
- ← Trace ACM (<1%)
- ← NAD (No Asbestos Detected)



22-445977 - Lake Street School Universal Hazardous Waste Survey
 Appendix B - Sample Location Diagram (1977 Addition)



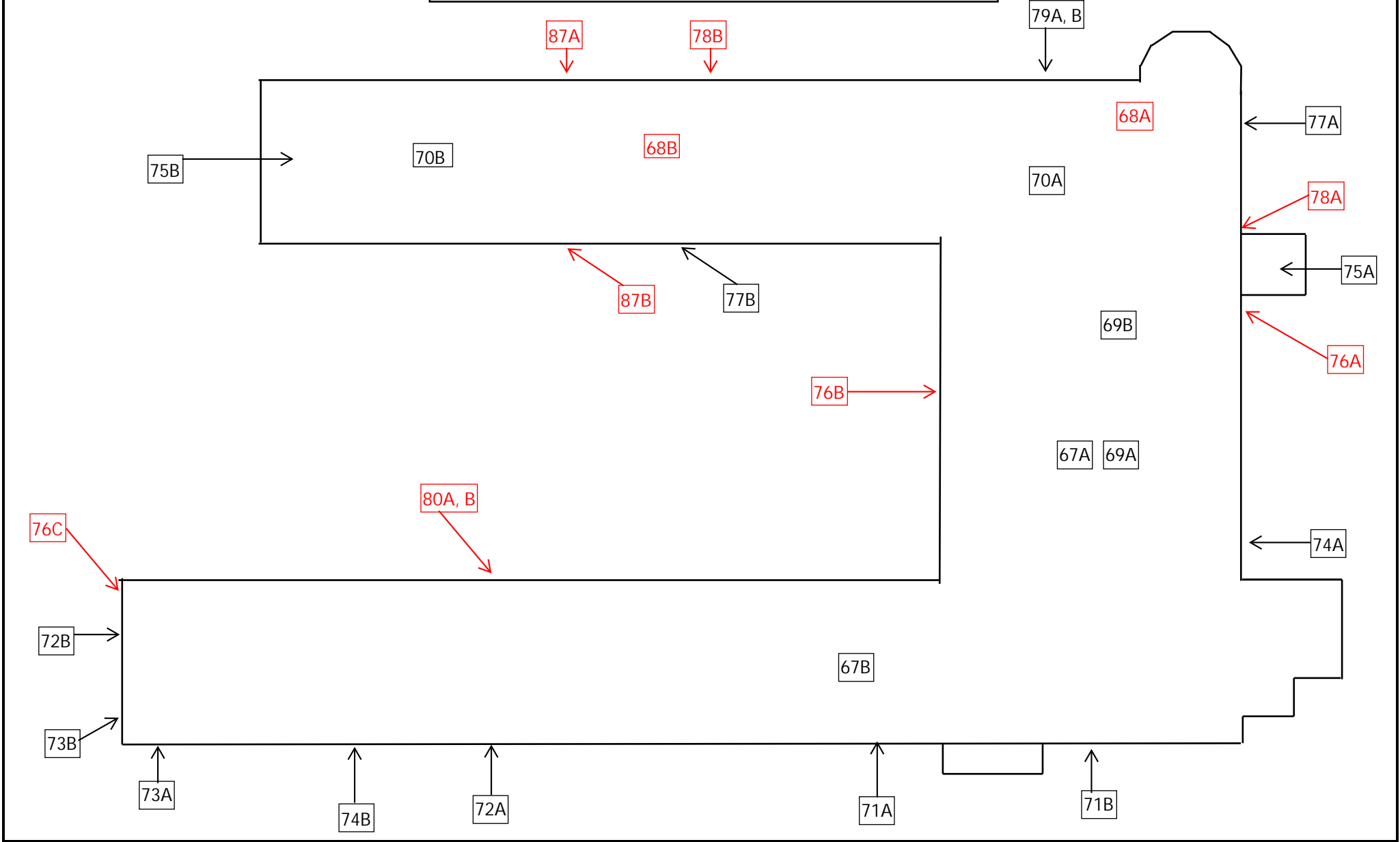
APPENDIX B: SAMPLE LOCATION DIAGRAM
Project No. 22-445977

Key:

- ← ACM (≥1% Asbestos)
- ← Trace ACM (<1%)
- ← NAD (No Asbestos Detected)



22-445977 - Lake Street School Universal Hazardous Waste Survey
Appendix B - Sample Location Diagram (Roofing System)



APPENDIX B: SAMPLE LOCATION DIAGRAM
Project No. 22-445977

Key:

- ← ACM (≥1% Asbestos)
- ← Trace ACM (<1%)
- ← NAD (No Asbestos Detected)



APPENDIX C: CERTIFICATIONS/LICENSES

Asbestos Inspector

JACQUELINE BARR

Eff. Date 10/12/22

Exp. Date 10/12/23

AI900989

Member of C.O.N.E.S.

BOSR

BOS

23





Asbestos Inspector

TRISTAN STETSON

Eff. Date 11/15/22

Exp. Date 11/15/23

AI901053

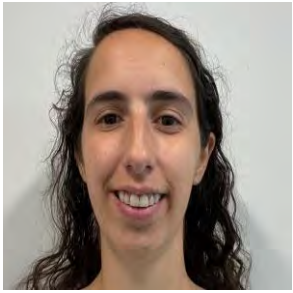
Member of C.O.N.E.S.

BOSR

BOSR

23





This is to certify that

Jacqueline Barr

24 Fairview Avenue, Natick, MA 01760
MA DLS Asbestos Inspector License# AI900989

*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 3, 2022

Course Dates

22-4304-106-273105

Certificate Number

August 03, 2022

Examination Date

August 03, 2023

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION



This is to certify that

Tristan A. Stetson

19 Westlund Ave., Keene, NH 03431
MA DLS Asbestos Inspector License# AI901053



*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

June 2, 2022

Course Dates

22-4300-106-275037

Certificate Number

June 02, 2022

Examination Date

June 02, 2023

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION

APPENDIX D: PHOTOGRAPHIC DOCUMENTATION



1. View of Lake Street School



2. View of 9x9 brown speckled tile



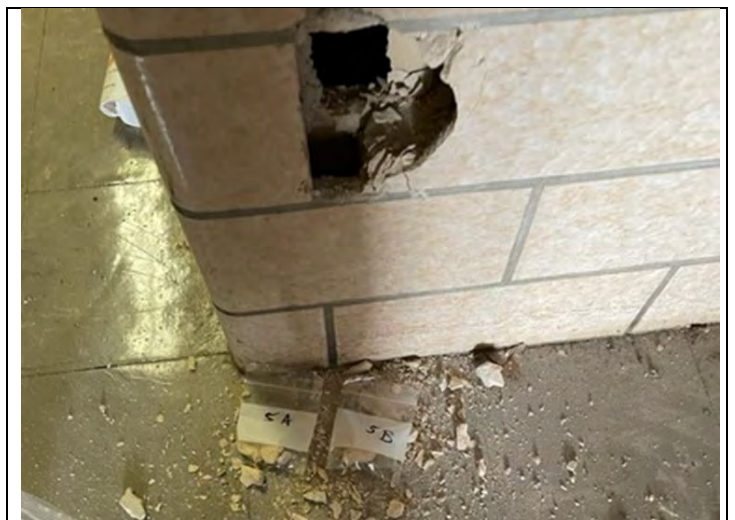
3. View of 6" black base board



4. View of dry wall



5. View of bathroom floor tiling, mortar, and grout



6. View of wall tiling and grout



7. View of 6" tan base board



8. View of tan carpet mastic



9. View of 9x9 dark gray



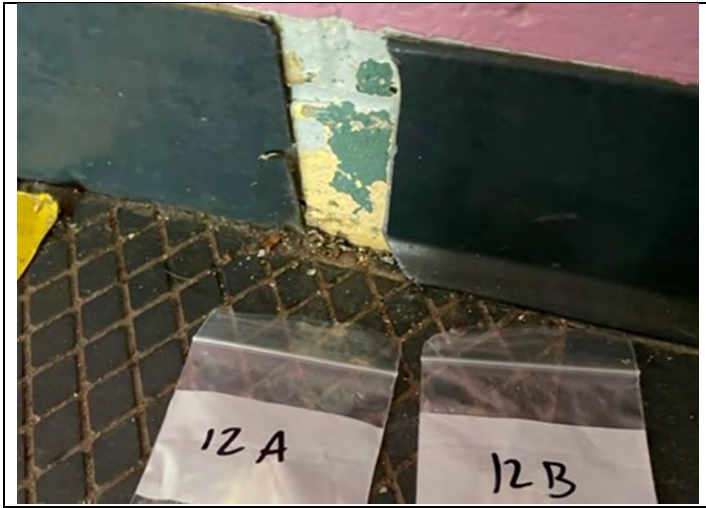
10. View of cinder block.



11. View of brick and mortar



12. View of window glaze



13. View of 4" blue base board



14. View of blue stair treads



15. View of 9x9 red tile



16. View of 12x12 red tile



17. View of 6" white base board



18. View of window caulking



19. View of sound board



20. View of 9x9 black dark tile



21. View of 4" black base board



22. View of 9x9 green tile



23. View of 12x12 green tile



24. View of green wall tiling and grout



25. View of 12x12 tan floor tile



26. View of 12x12 black floor tile



27. View of 12x12 white floor tile



28. View of 12x12 beige yellow floor tile



29. View of 4" gray base board



30. View of 12x12 yellow flooring tile



31. View of 9x9 white tile



32. View of 9x9 brown tile



33. View of 9x9 burnt brown tile



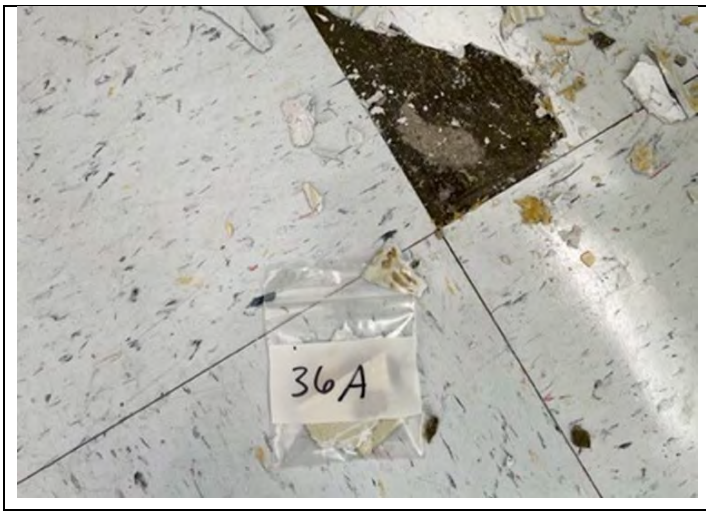
34. View of 9x9 stripy tan tile



35. View of cream wall mastic



36. View of speckled ceiling tile



37. View of 12x12 light blue speckled tile



38. View of 12x12 blue gray flooring tile



39. View of blue ceramic patterned flooring tiles



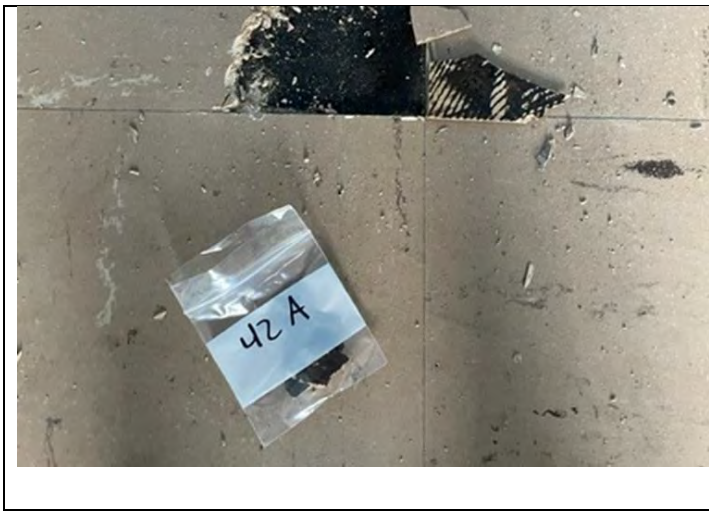
40. View of new light blue ceramic patterned flooring tiles



41. View of pink ceramic patterned flooring



42. View of 9x9 brown gray 2nd floor tile



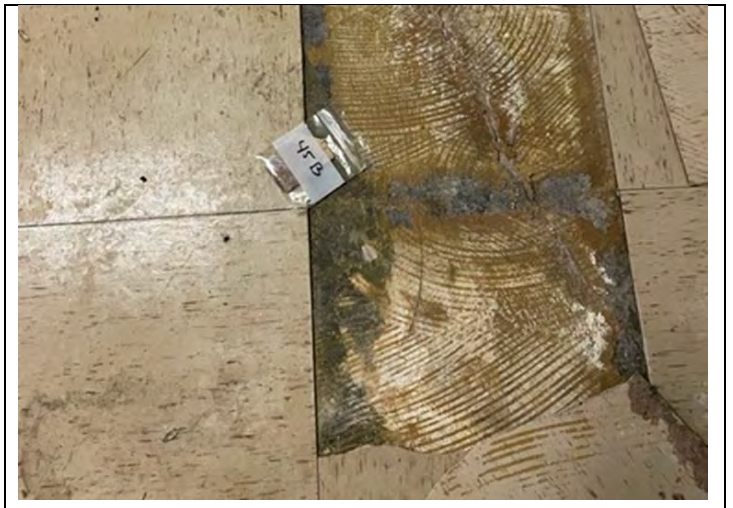
43. View of 9x9 light brown with brown speckled tile



44. View of tan floor tread and black mastic



45. View of tan floor tread and tan mastic



46. View of 12x12 blush lined flooring tile



47. View of blush base board



48. View of 1977 brick and mortar



49. View of 2x2 red ceramic tile



50. View of 2x2 blue ceramic tile



51. View of 12x12 white gray flecked flooring tile 1977



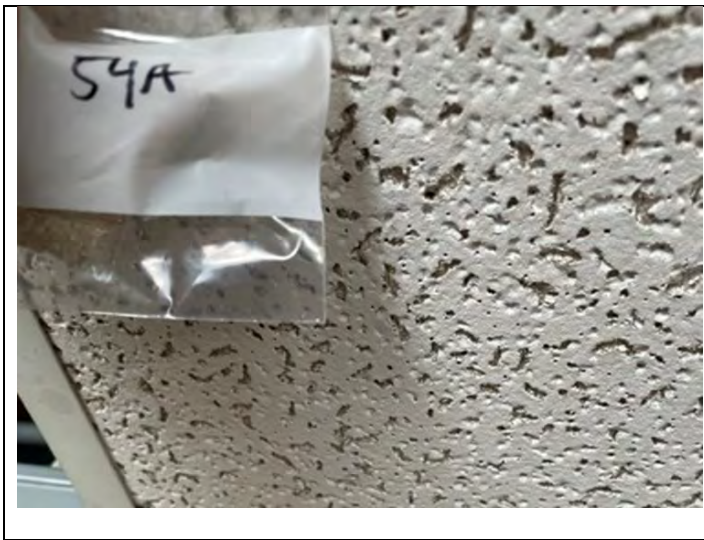
52. View of 4" tan base board 1977



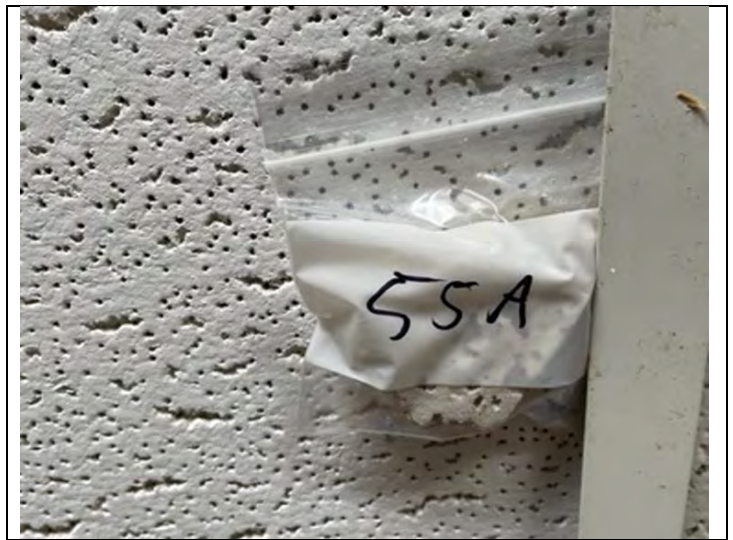
53. View of pink under sink coat



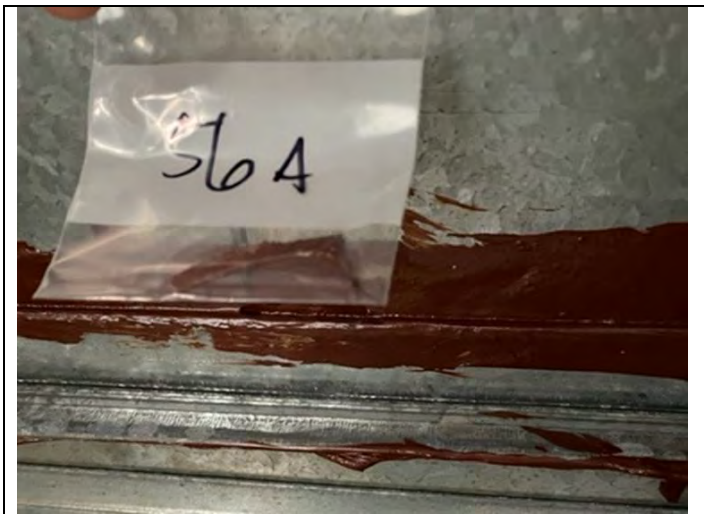
54. View of black under sink coat



55. View of wormy ceiling tile



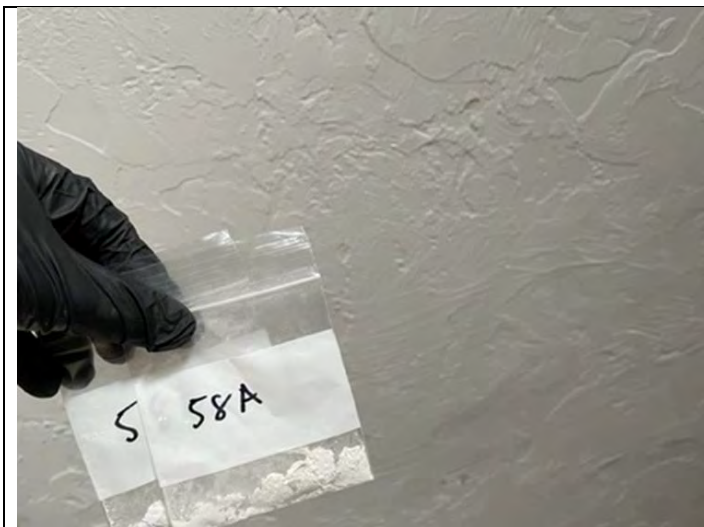
56. View of speckled ceiling tile



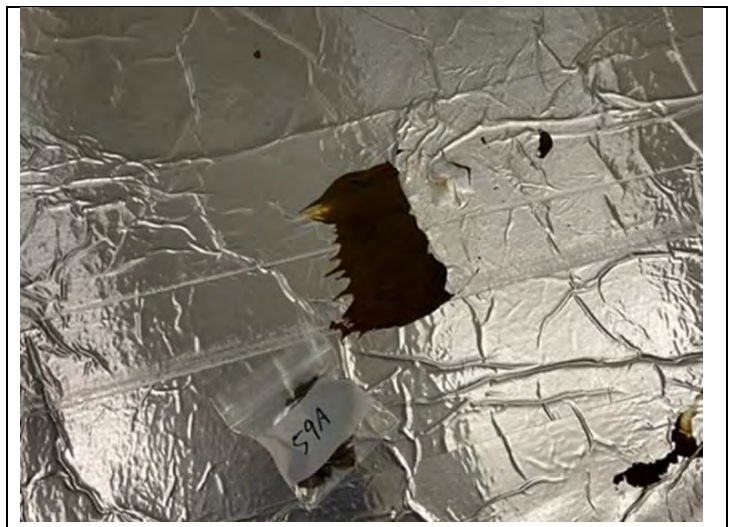
57. View of red duct sealant



58. View of carpet mastic 1977



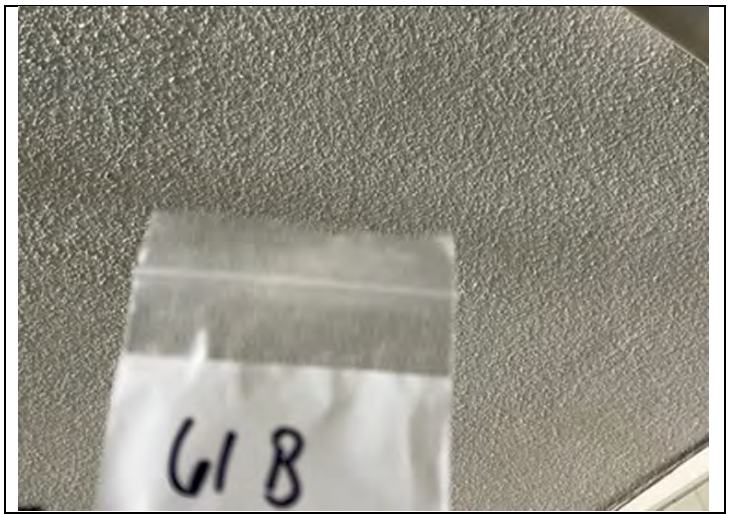
59. View of textured ceiling



60. View of brown chalk board mastic



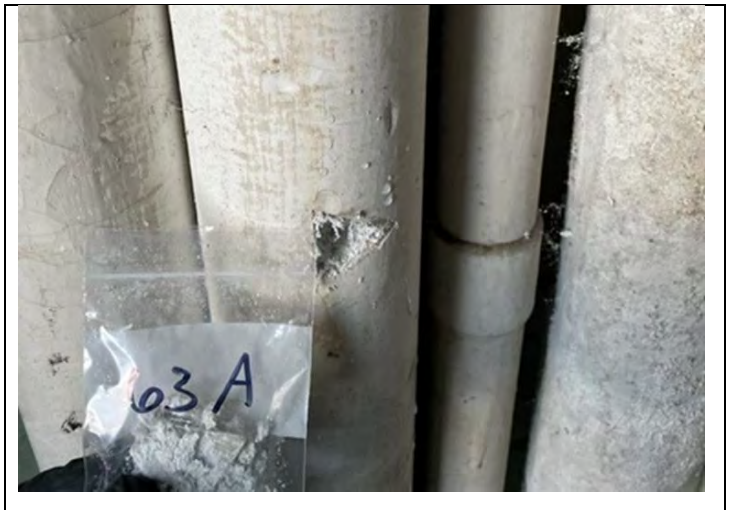
61. View of black window caulking



62. View of popcorn ceiling



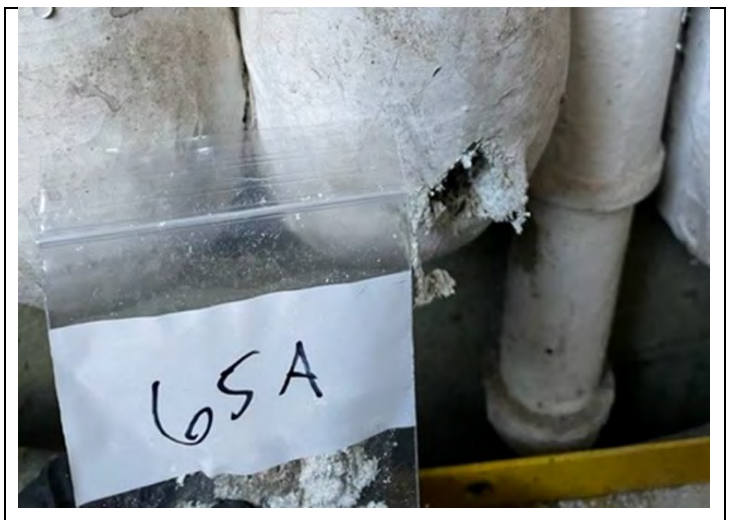
63. View of boiler TSI



64. View of TSI chalky fabric



65. View of red gasket



66. View of white chalky elbows



67. View of new fiberglass TSI



68. View of roof coring (TPO on top of EDPM)



69. View of white chimney caulking



70. View of black chimney caulking



71. View of white new roof coring



72. View of exterior brick and mortar



73. View of exterior white caulking old



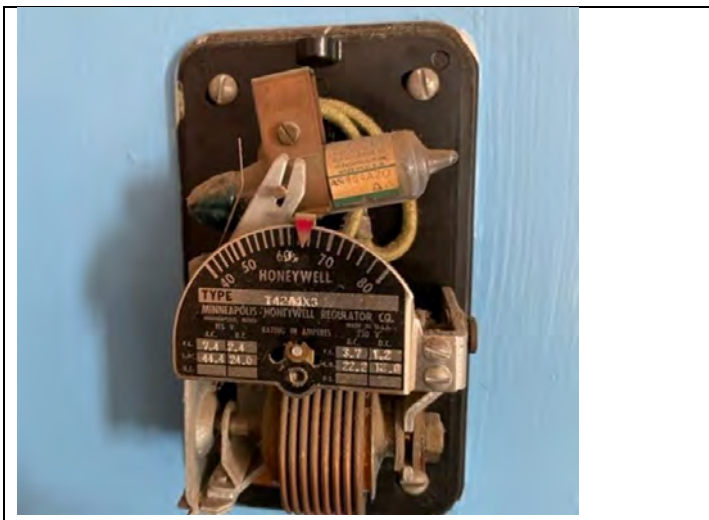
74. View of white exterior window caulking new



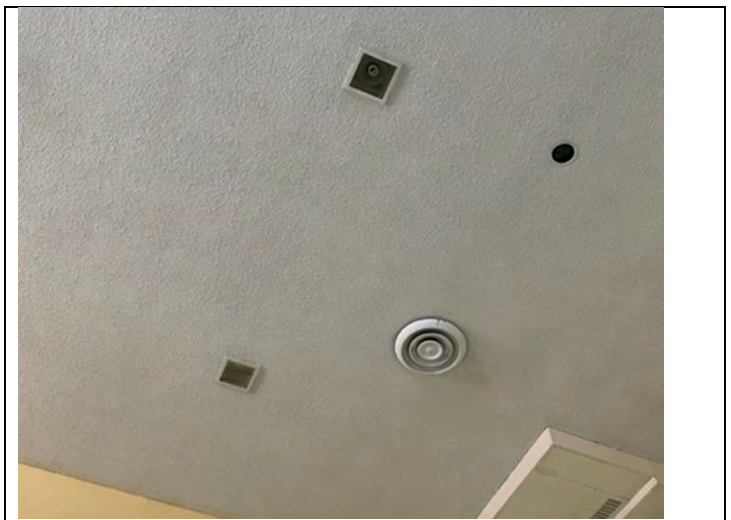
75. View of circular light



76. View of exit sign



77. View of mercury thermostat



78. View of Square florescent light



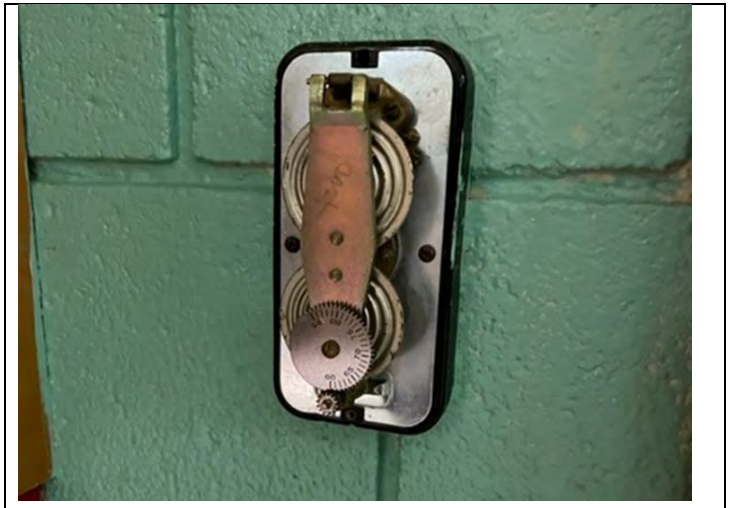
73. View of air conditioner thermometer



74. View of generator switch



75. View of 4ft fluorescent lights



76. View of mechanical thermostat



77. View of ...



78. View of ...

APPENDIX A

HAZARDOUS MATERIALS SURVEY REPORT

prepared by PARTNER ASSESSMENT CORPORATION dba ENDPOINT, LLC
(**121 pages** total), dated June 8, 2023; **Revised July 14, 2023**)