

Appendix

LIMITED HAZARDOUS
BUILDING MATERIALS
INSPECTION REPORT

SECTION
3.1.8

Limited Hazardous Building Materials Inspection Report

Leicester Middle School
70 Winslow Avenue
Leicester, Massachusetts

Finegold Alexander Architects
Leicester, Massachusetts

April 2019



FUSS & O'NEILL

Fuss & O'Neill, Inc.
108 Myrtle Street, Suite 502
Quincy, MA 02171



April 10, 2019

Ms. Regan Shields Ives, AIA, NCARB, LEED AP
Principal
Finegold Alexander Architects
77 North Washington Street
Boston, MA 02114

RE: Limited Hazardous Building Materials Inspection
Leicester Middle School
70 Winslow Avenue, Leicester, MA
Fuss & O'Neill Project No. 20181089.A10

Dear Ms. Shields Ives:

Enclosed is the limited hazardous building materials inspection summary report for the inspection conducted at Leicester Middle School located at 70 Winslow Avenue in Leicester, Massachusetts.

On April 1, 2019, Fuss & O'Neill, Inc. (Fuss & O'Neill) state-certified Asbestos Inspectors performed a limited asbestos inspection, presumed polychlorinated biphenyl (PCB)-containing source building materials inventory, and a fluorescent light ballast and mercury-containing equipment inventory as part of a feasibility study.

The information summarized in this report is solely for the abovementioned materials only. The work was performed in accordance with our written scope of services dated December 5, 2018.

If you should have any questions regarding the contents of the enclosed report, please do not hesitate to contact me at 617-282-4675, extension 4703. Thank you for this opportunity to have served your environmental needs.

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Sincerely,

Dustin A. Diedricksen
Associate/Environmental Department Manager

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DD/rm

Enclosure

California
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 Inspection Report
 Leicester Middle School
 Finegold Alexander Architects

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1 Introduction

On April 1, 2019, Fuss & O'Neill, Inc. (Fuss & O'Neill) representatives, Ms. Heidi Keller and Mr. Lou Dias, performed a limited hazardous building materials inspection as part of a Module 3 (Feasibility Study) of the Massachusetts School Building Authority (MSBA) program for the Leicester Middle School at 70 Winslow Avenue in Leicester, Massachusetts (the "Site").

An Asbestos Hazardous Emergency Responses Act (AHERA) Management Plan was previously conducted at the Site and applicable information has been utilized during this inspection.

1.1 Scope of Work

The work was performed for Finegold Alexander Architects (the "Client") in accordance with our written scope of services dated December 5, 2018. This report is subject to the limitations presented in Appendix A. The scope of work included the following:

- Limited Asbestos-Containing Materials (ACM) Inspection;
- Lead-Based Paint (LBP) Screening;
- Polychlorinated Biphenyl (PCB)-Source Building Materials Inventory (visual only); and
- Fluorescent Light Ballast and Mercury-Containing Equipment Inventory.

Intrusive or destructive investigative techniques were not performed at the Site to access and to observe concealed or inaccessible areas that may contain suspect ACM (per Client's request). Hard enclosures or obstructed areas observed at the Site include, but are not limited to, the following:

- Roofing Systems/Layers;
- Voids behind Exterior Facade;
- Vapor/Moisture Barrier under Floors or on Concrete Foundations;
- Wall Cavities;
- Pipe Chases;
- Spaces above Fixed Ceilings or Fiberglass Ceiling Tiles;
- Underneath Layered/Raised/Rubber Gymnasium Flooring;
- Beneath Window/Door Frames;
- Behind mirrors, blackboards, bulletin boards, and corkboards;
- Areas behind and within Mechanical Equipment; and
- Ceramic Floor & Wall Tile Systems.

Fuss & O'Neill did not conduct subsurface investigations to identify concealed suspect materials throughout the subject property.

We excluded collection and analysis of suspect materials for polychlorinated biphenyls (PCBs) during this inspection. Sampling for PCBs is presently not mandated by the United States Environmental Protection Agency (EPA); however, significant liability risk for disposing of PCB-containing wastes exists. Recent knowledge of PCBs within these matrices has become more prevalent, especially with remediation contractors, waste haulers, and disposal facilities. Many property owners have become subject to large changes in schedule, scope, and costs as a result of failure to identify PCBs prior to renovation or demolition activities. For the purpose of this inspection, potential PCB-containing source building materials (as recommended by the EPA) have been presumed to contain regulated concentrations of PCBs.

1.2 Building Description

Leicester Middle School is a single-story structure that was reportedly constructed in the 1950s with an addition made in the 1970s; it contains approximately 76,500 square feet of interior space. The most recent renovation date is unknown. The building finishes includes plaster, concrete masonry unit (CMU) walls, gypsum wallboard, a rubber roofing system, and a poured concrete slab.

2 Limited Asbestos Inspection

A property owner or operator must ensure that a thorough asbestos inspection is performed prior to possible disturbance of suspect ACM during renovation or demolition activities. This is a requirement of the United States Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR, Part 61, Subpart M.

On April 1, 2019, Ms. Heidi Keller and Mr. Lou Dias of Fuss & O'Neill conducted the limited inspection of visible and accessible areas. Ms. Keller and Mr. Dias are both Commonwealth of Massachusetts Department of Labor Standards (MADLS)-certified Asbestos Inspectors. Refer to Appendix B for copies of each Asbestos Inspector's state certification and EPA accreditation.

2.1 Methodology

The inspection was conducted by visually inspecting for suspect ACM and touching each of the suspect ACM, if accessible. The suspect ACM were grouped into three EPA NESHAP categories: Friable; Category I Non-Friable, and Category II Non-Friable.

- Friable is defined as material that contains greater than one percent (> 1%) asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I Non-Friable refers to material that contains > 1% asbestos (i.e., packings, gaskets, resilient floor coverings, and asphalt roofing products) that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category II Non-Friable refers to any non-friable material excluding Category I materials that contain > 1% asbestos that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure.



The suspect ACM were also categorized into their applications including: Thermal System Insulation (TSI), Surfacing ACM, and Miscellaneous ACM. TSI includes those materials used to prevent heat loss/gain or water condensation on mechanical systems. Examples of TSI include, but are not limited to, pipe insulation, boiler insulation, duct insulation, mudded pipe fitting insulation, etc. Surfacing ACM includes those ACM that are sprayed-on, troweled-on, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous ACM include those not listed as TSI or Surfacing ACM, such as sheet flooring, floor tiles, ceiling tiles, caulking, mastics, construction adhesives, etc.

The EPA recommends collecting suspect ACM samples in a manner sufficient to determine asbestos content, and separating suspect ACM into homogenous material types (similar in color, texture, and date of application). The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected for each homogeneous material, but the NESHAP regulation does recommend the use of sampling protocols included in EPA Title 40 CFR, Part 763, Subpart E: Asbestos Hazard Emergency Response Act (AHERA).

The EPA AHERA regulation requires a specific number of samples be collected based on the material type and quantity present. This regulation includes the following protocol:

1. Surfacing Materials (e.g., plaster, spray-applied fireproofing, etc.) shall be collected in a randomly-distributed manner representing each homogenous area based on the overall quantity as follows:
 - a. At least three (3) bulk samples collected from each homogenous area that is less than or equal to 1,000 square feet.
 - b. At least five (5) bulk samples collected from each homogenous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.
 - c. At least seven (7) bulk samples collected from each homogenous area that is greater than 5,000 square feet.
2. Thermal System Insulation (e.g., pipe insulation, tank insulation, etc.) shall be collected in a randomly-distributed manner representing each homogenous area. At least three (3) bulk samples shall be collected of each homogenous material type. Also, at least one (1) bulk sample of any patching material applied to TSI, presuming the patched area is less than six linear or square feet, shall be collected.
3. Miscellaneous Materials (e.g., floor tile, mastic, cement board, caulking, glazing, etc.) should have at least two (2) bulk samples collected of each homogenous material type. Sample collection shall be conducted in a manner sufficient to determine the asbestos content of the homogenous material type as determined by the inspector.

Suspect ACM samples were collected, and proper chain-of-custody forms were prepared for transmission of collected samples to EMSL Analytical, Inc. (EMSL), for analysis. EMSL is a Commonwealth of Massachusetts-licensed and American Industrial Hygiene Association (AIHA)-accredited Asbestos Analytical Laboratory. Initial asbestos sample analysis was conducted using the EPA Interim Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116) via Polarized Light Microscopy with Dispersion Staining (PLM/DS).

The EPA recommends that non-friable, organically-bound (NOB) materials (e.g., asphaltic-based materials, adhesives, caulking, etc.) undergo further confirmatory analysis utilizing Transmission Electron Microscopy (TEM). Eight of the collected NOB samples were analyzed by TEM.

If samples of suspect ACM could not be collected, these materials were assumed to contain asbestos and quantities were approximated.

2.2 Results

The EPA, the Occupational Safety and Health Administration (OSHA), and the MADLS define a material that contains > 1% asbestos (by PLM/DS analysis) as an ACM. The Massachusetts Department of Environmental Protection (MassDEP) further defines ACM as materials containing greater than or equal to (\geq) 1% asbestos. MassDEP also defines an asbestos-containing waste material (ACWM) as:

- ACM removed during renovation or demolition activities;
- Materials contaminated by an ACM during renovation or demolition activities; or
- ACM on and/or in facility components that are inoperable or have been taken out of service.

The MassDEP further defines waste material containing any amount of asbestos as an ACWM, which must be managed and disposed of as such. Materials that are identified as "none detected" are specified as not containing asbestos.

Utilizing the EPA, OSHA, MADLS, and MassDEP protocols and criteria, the following materials were determined to be ACM:

- Various Floor Tiles;
- Floor Tile Mastic;
- Sink Undercoating;
- Window Glazing Compound;
- Pipe & Fitting Insulation;
- Weatherproofing;
- Exterior Metal-to-Tile Caulking;
- Joint Compound;
- Ceramic Floor & Wall Tile Components (assumed);
- Interior Boiler Components & Boiler Pad (assumed);
- Exterior Dampproofing (assumed);
- Materials Associated with Gymnasium Floor (assumed);
- Sub-Slab Dampproofing (assumed); and
- Roofing Materials (assumed).

Refer to Table 1, attached hereto, for the complete list of ACM and non-ACM identified by sample identification, material type, sample location, and asbestos content as part of this inspection. Refer to Table 2, attached hereto, for the identified ACM inventory.

Refer to Appendix C for the asbestos laboratory analytical reports and chain-of-custody form.

2.3 Conclusions and Recommendations

Based on visual observations, sample collection, and laboratory analysis, ACM were identified at the Site.

Prior to disturbance, ACM that would likely be impacted by proposed renovation or demolition activities must first be abated by a MADLS-licensed Asbestos Contractor. This is a requirement of MADLS, MassDEP, and EPA NESHAP regulations governing asbestos abatement.

Due to the inability to effectively separate some types of multi-layered ACM from non-ACM, these materials are considered asbestos-contaminated and must be managed as ACWM for removal and disposal purposes.

At the Client's request, concealed or inaccessible areas were not inspected as part of this inspection. Prior to renovation or demolition activities that may disturb concealed or inaccessible areas, we recommend conducting a supplemental asbestos inspection of these areas. These areas include, but are not limited to, the following:

- Roofing Systems/Layers;
- Voids behind Exterior Facade;
- Vapor/Moisture Barrier under Floors or on Concrete Foundations;
- Wall Cavities;
- Pipe Chases;
- Spaces above Fixed Ceilings or Fiberglass Ceiling Tiles;
- Underneath Layered/Raised/Rubber Gymnasium Flooring;
- Beneath Window/Door Frames;
- Behind mirrors, blackboards, bulletin boards, and corkboards;
- Areas behind and within Mechanical Equipment; and
- Ceramic Floor & Wall Tile Systems.

If suspect materials are encountered during renovation or demolition activities that are not identified in this report as being non-ACM, they shall be assumed to be ACM until laboratory analysis indicates otherwise.

If ACM are to remain at the Site following renovation/demolition activities, Fuss & O'Neill recommends the development of a written Operations and Maintenance Program (to manage ACM in place) in accordance with OSHA regulations.

This report is not intended to be utilized as a bidding or a project specification document. This report is designed to aid the building owner, architect, construction manager, general contractor(s), and asbestos abatement contractor(s) in locating ACM and ACWM.

3 Lead-Based Paint Screening

For the purpose of this inspection, all coated building components are assumed to be coated with LBP.

4 Presumed Polychlorinated Biphenyls (PCBs) Source Building Materials

4.1 Background

On April 1, 2019, Ms. Keller of Fuss & O'Neill completed a presumed PCB-containing source building materials inventory.

Sample collection and analysis of building materials for PCBs is presently not mandated by the EPA. However, significant liability risk exists for improperly disposing of PCB-containing waste materials. Recent knowledge and awareness of PCBs within matrices such as caulking, glazing compounds, paints, adhesives and ceiling tiles has become more prevalent, especially among remediation contractors, waste haulers, and disposal facilities. The EPA recommends sample collection and analysis of caulking and glazing compounds installed between 1950 and 1980 to determine PCB concentration.

The EPA requirements apply and require removal of PCBs once identified, regardless of project intent as an unauthorized use of PCBs. Once it is determined that PCBs are present and a building is to remain for re-use, the EPA still requires PCB-containing material removal. If PCBs are present at certain concentrations, additional sampling and analysis of adjacent surfaces in contact with PCB sources, or which may have been contaminated from a source of PCBs (e.g., masonry, soil), must also be performed or remediated.

EPA requirements apply only if PCBs are present in concentrations above a specified level. Presently, PCB-containing materials at concentrations equal to or greater than (\geq) 50 part per million (ppm), or equivalent units of milligrams per kilogram (mg/kg), are regulated. Note materials containing ≥ 1 , ppm but less than ($<$) 50 ppm may also be regulated unless proven to be an "Excluded PCB Product". The definition of an Excluded PCB Product includes those products, or source of the products, containing < 50 ppm concentration PCBs that were legally manufactured, processed, distributed in commerce, or used before October 1, 1984.

4.2 Results

Utilizing the EPA guidelines, a presumed PCB-containing source building materials inventory by material type, location, and quantity is included in Table 3 attached hereto. Window systems appeared to have been installed more recent than building construction; however, documentation of window installation was not obtained and all window caulking is presumed to be a PCB-containing source building material.

4.3 Conclusions and Recommendations

Identified materials should be presumed to contain regulated concentrations (≥ 50 ppm) of PCBs until sample analysis indicates otherwise. These materials should be removed and disposed of at an EPA-approved facility as regulated PCB Bulk Product Waste.

5 Fluorescent Light Ballasts and Mercury-Containing Equipment

5.1 Fluorescent Light Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Light ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as “No PCBs” must be assumed to contain PCBs unless proven otherwise by quantitative analysis. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen, and is listed under RCRA and the Superfund Law as a hazardous waste. Therefore, Superfund liability exists for landfilling both PCB- and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA and require special handling and disposal considerations.

5.2 Mercury-Containing Equipment

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of liquid mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by EPA RCRA regulations.

5.3 Results

On April 1, 2019, Ms. Keller of Fuss & O'Neill performed a visual inspection of representative fluorescent light fixtures in-place to identify possible PCB-containing ballasts in the building. The inspection involved visually inspecting labels on representative light ballasts to identify manufacture dates and labels indicating “No PCBs”. Ballasts manufactured after 1991 were not listed as PCB- or DEHP-containing ballasts and were not quantified for disposal. An in-place inventory of the fluorescent lamps/tubes and other mercury-containing equipment was completed concurrently.

During this inspection, PCB-containing ballasts were identified at several locations within the school. Therefore, all ballasts in the building are presumed to contain PCBs.

5.4 Conclusions and Recommendations

PCB-containing fluorescent light ballasts were identified in the building during this inspection.

Fluorescent light ballasts marked as “No PCBs” with date labels indicating manufacture prior to 1991 are presumed to contain DEHP. DEHP-containing ballasts must be segregated for proper packaging, transporting, and disposal as non-PCB hazardous waste. Note that disposal requirements for DEHP-containing ballasts are slightly varied, and disposal costs are slightly less, when compared to PCB-containing light ballasts.



According to the EPA, mercury-containing equipment is characterized as a hazardous waste and mercury lamps/tubes are characterized as a Universal Waste. The mercury-containing equipment and fluorescent lamps/tubes identified in the proposed renovation areas must be recycled, reclaimed, or disposed of as hazardous waste or Universal Waste prior to disturbance.

This report is not intended to be utilized as a bidding or a project specification document. This report is designed to aid the building owner, architect, construction manager, general contractor(s), and abatement contractor(s) in locating hazardous building materials.

Report prepared by Environmental Analyst, Heidi Keller.

Reviewed by:

A handwritten signature in black ink, appearing to read 'R. Mallett'.

Robert Mallett
Environmental Analyst

A handwritten signature in black ink, appearing to read 'D. A. Diedricksen'.

Dustin A. Diedricksen
Associate/Environmental Department Manager

Tables

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Leicester Middle School
Leicester, Massachusetts

Finegold Alexander Architects
April 2019
Fuss & O'Neill Reference No. 20181089.A10

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
01A-HK-190401	White Thin Coat	Non-ACM	Room 24	ND	
01B-HK-190401	White Thin Coat	Non-ACM	Gym Storage Room	ND	
01C-HK-190401	White Thin Coat	Non-ACM	Boiler Room	ND	
01D-HK-190401	White Thin Coat	Non-ACM	Boiler Room with Storage	ND	
01E-HK-190401	White Thin Coat	Non-ACM	Cafeteria	ND	
01F-HK-190401	White Thin Coat	Non-ACM	It Room	ND	
01G-HK-190401	White Thin Coat	Non-ACM	Auditorium	ND	
02A-HK-190401	Gray Rough Coat	Non-ACM	Room 24	ND	
02B-HK-190401	Gray Rough Coat	Non-ACM	Gym Storage Room	ND	
02C-HK-190401	Gray Rough Coat	Non-ACM	Boiler Room	ND	
02D-HK-190401	Gray Rough Coat	Non-ACM	Boiler Room with Storage	ND	
02E-HK-190401	Gray Rough Coat	Non-ACM	Cafeteria	ND	
02F-HK-190401	Gray Rough Coat	Non-ACM	It Room	ND	
02G-HK-190401	Gray Rough Coat	Non-ACM	Auditorium	ND	
03A-HK-190401	Blue 12" x 12" with Black Streaks	Non-ACM	Room 36 Hallway	ND	
03B-HK-190401	Blue 12" x 12" with Black Streaks	Non-ACM	Room 12 Hallway	ND	
04A-HK-190401	Yellow Mastic	Non-ACM	Room 36 Hallway	ND	
04B-HK-190401	Yellow Mastic	Non-ACM	Room 12 Hallway	ND	
05A-HK-190401	Orange 12" x 12" with White Streaks	Non-ACM	Room 19 Hallway	ND	TEM
05B-HK-190401	Orange 12" x 12" with White Streaks	Non-ACM	Room 30 Hallway	ND	
06A-HK-190401	Cream Mastic	Non-ACM	Room 19 Hallway	ND	TEM
06B-HK-190401	Cream Mastic	Non-ACM	Room 30 Hallway	ND	
07A-HK-190401	Black 12" x 12" with White Streaks	Non-ACM	Gym Hallway	ND	
07B-HK-190401	Black 12" x 12" with White Streaks	Non-ACM	Room 19 Hallway	ND	
08A-HK-190401	Black Mastic	Non-ACM	Gym Hallway	ND	
08B-HK-190401	Black Mastic	Non-ACM	Room 19 Hallway	ND	
09A-HK-190401	White 12" x 12" with Gray Streaks	Cat 1 NF	Room 36	2% Chrysotile	
09B-HK-190401	White 12" x 12" with Gray Streaks	Cat 1 NF	Room 33	Pos Stop	
10A-HK-190401	Black Mastic	Not Analyzed	Room 36	Not Analyzed	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
10B-HK-190401	Black Mastic	Cat 1 NF	Room 33	10% Chrysotile	
11A-HK-190401	Brown 9" x 9" with White Specks	Cat 1 NF	Auditorium Office	5% Chrysotile	
11B-HK-190401	Brown 9" x 9" with White Specks	Cat 1 NF	Room 30	Pos Stop	
12A-HK-190401	Black Mastic	Cat 1 NF	Auditorium Office	10% Chrysotile	
12B-HK-190401	Black Mastic	Cat 1 NF	Room 3	Pos Stop	
13A-HK-190401	Light Blue 12" x 12" with Bark Blue Streaks	Non-ACM	Cafeteria	ND	
13B-HK-190401	Light Blue 12" x 12" with Bark Blue Streaks	Non-ACM	Cafeteria Hallway	ND	
14A-HK-190401	Yellow Mastic	Non-ACM	Cafeteria	ND	
14B-HK-190401	Yellow Mastic	Non-ACM	Cafeteria Hallway	ND	
15A-HK-190401	Light Green 12" x 12" with White Streaks	Cat 1 NF	Gym	5% Chrysotile	
15B-HK-190401	Light Green 12" x 12" with White Streaks	Cat 1 NF	Room 25	Pos Stop	
16A-HK-190401	Black Mastic	Cat 1 NF	Gym	10% Chrysotile	
16B-HK-190401	Black Mastic	Cat 1 NF	Room 25	Pos Stop	
17A-HK-190401	White 12" x 12" with Cream Streaks	Non-ACM	Room 36	ND	
17B-HK-190401	White 12" x 12" with Cream Streaks	Non-ACM	Room 32	ND	
18A-HK-190401	Yellow Mastic	Non-ACM	Room 36	ND	
18B-HK-190401	Yellow Mastic	Non-ACM	Room 32	ND	
19A-HK-190401	Light Brown 9" x 9" with White Streaks	Cat 1 NF	Room 24	5% Chrysotile	
19B-HK-190401	Light Brown 9" x 9" with White Streaks	Cat 1 NF	Auditorium Office	Pos Stop	
20A-HK-190401	Black Mastic	Non-ACM	Room 24	ND	
20B-HK-190401	Black Mastic	Non-ACM	Auditorium Office	ND	
21A-HK-190401	Dark Brown 12" x 12" with Black Streaks	Cat 1 NF	Boiler Room Hallway	2% Chrysotile	
21B-HK-190401	Dark Brown 12" x 12" with Black Streaks	Cat 1 NF	Gym Hallway	Pos Stop	
22A-HK-190401	Black Mastic	Non-ACM	Boiler Room Hallway	ND	
22B-HK-190401	Black Mastic	Non-ACM	Gym Hallway	ND	
23A-HK-190401	Black Sink Undercoating	Cat 1 NF	Room 24	2% Chrysotile	
23B-HK-190401	Black Sink Undercoating	Cat 1 NF	Room 24	Pos Stop	
24A-HK-190401	Yellow Carpet Mastic	Non-ACM	Auditorium	ND	
24B-HK-190401	Yellow Carpet Mastic	Non-ACM	Auditorium	ND	
25A-HK-190401	White Sand Proofing Wall Tiles	Non-ACM	Auditorium	ND	
25B-HK-190401	White Sand Proofing Wall Tiles	Non-ACM	Auditorium	ND	
26A-HK-190401	Brown 9" x 9" with Orange & White Streaks	Cat 1 NF	School Store	2% Chrysotile	
26B-HK-190401	Brown 9" x 9" with Orange & White Streaks	Cat 1 NF	School Store	Pos Stop	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
27A-HK-190401	Black Mastic	Cat 1 NF	School Store	10% Chrysotile	
27B-HK-190401	Black Mastic	Cat 1 NF	School Store	Pos Stop	
28A-HK-190401	Yellow Carpet Square Adhesive	Non-ACM	Room 32	ND	
28B-HK-190401	Yellow Carpet Square Adhesive	Non-ACM	Room 32	ND	
29A-HK-190401	White Vinyl Baseboard	Non-ACM	Room 36	ND	
29B-HK-190401	White Vinyl Baseboard	Non-ACM	Room 33	ND	
30A-HK-190401	Cream Mastic	Non-ACM	Room 36	ND	
30B-HK-190401	Cream Mastic	Non-ACM	Room 33	ND	
31A-HK-190401	Gray Vinyl Baseboard	Non-ACM	Room 13	ND	
31B-HK-190401	Gray Vinyl Baseboard	Non-ACM	Room 13	ND	
32A-HK-190401	Greenish Gray Vinyl Baseboard	Non-ACM	Room 24	ND	
32B-HK-190401	Greenish Gray Vinyl Baseboard	Non-ACM	Room 24	ND	
33A-HK-190401	Brown Mastic	Non-ACM	Room 24	ND	
33B-HK-190401	Brown Mastic	Non-ACM	Room 24	ND	
34A-HK-190401	Black Vinyl Baseboard	Non-ACM	Boiler Room Hallway	ND	
34B-HK-190401	Black Vinyl Baseboard	Non-ACM	Gym Hallway	ND	
35A-HK-190401	Cream Mastic	Non-ACM	Boiler Room Hallway	ND	
35B-HK-190401	Cream Mastic	Non-ACM	Gym Hallway	ND	
36A-HK-190401	Black Vinyl Baseboard	Non-ACM	Room 32	ND	
36B-HK-190401	Black Vinyl Baseboard	Non-ACM	Room 32	ND	
37A-HK-190401	Cream Mastic	Non-ACM	Room 32	ND	
37B-HK-190401	Cream Mastic	Non-ACM	Room 32	ND	
38A-HK-190401	Dot & Fissure Ceiling Tile	Non-ACM	Gym Hallway	ND	
38B-HK-190401	Dot & Fissure Ceiling Tile	Non-ACM	Room 24	ND	
39A-HK-190401	Dot & Fissure Ceiling Tile	Non-ACM	Room 34	ND	
39B-HK-190401	Dot & Fissure Ceiling Tile	Non-ACM	Room 36	ND	
40A-HK-190401	White Mudded Pipe Insulation	Friable	Kitchen (above Suspended Ceiling)	60% Chrysotile	
40B-HK-190401	White Mudded Pipe Insulation	Friable	Kitchen (above Suspended Ceiling)	Pos Stop	
40C-HK-190401	White Mudded Pipe Insulation	Friable	Kitchen Storage	Pos Stop	
41A-HK-190401	Gray Glazing Compound	Cat 2 NF	Interior Hallway	2% Chrysotile	
41B-HK-190401	Gray Glazing Compound	Cat 2 NF	Windows	Pos Stop	
42A-HK-190401	Black Caulking	Non-ACM	Room 26 Hallway Door Window	ND	TEM
42B-HK-190401	Black Caulking	Non-ACM	Room 19 Hallway Door Window	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
43A-HK-190401	Black Caulking	Non-ACM	Room 26 Hallway Side Window	ND	TEM
43B-HK-190401	Black Caulking	Non-ACM	Room 19 Hallway Side Window	ND	
44A-HK-190401	Gray Caulking	Non-ACM	Room 12 Hallway Control Joint	ND	
44B-HK-190401	Gray Caulking	Non-ACM	Cafeteria Control Joint	ND	
45A-HK-190401	Gray AirCell Pipe Insulation	Friable	Kitchen	70% Chrysotile	
45B-HK-190401	Gray AirCell Pipe Insulation	Friable	Kitchen	Pos Stop	
46A-HK-190401	Brown Caulking	Non-ACM	Interior of Gym Door to The Exterior	ND	
46B-HK-190401	Brown Caulking	Non-ACM	Interior of Gym Door to The Exterior	ND	
47A-HK-190401	Gray Caulking	Non-ACM	Interior Door between Kitchen & Maintenance	ND	
47B-HK-190401	Gray Caulking	Non-ACM	Interior Door between Kitchen & Maintenance	ND	
48A-HK-190401	Black Caulking	Non-ACM	Exterior Windows	ND	
48B-HK-190401	Black Caulking	Non-ACM	Exterior Windows	ND	
49A-HK-190401	Gray Caulking	Non-ACM	Exterior Baseboard Heat Vents	ND	
49B-HK-190401	Gray Caulking	Non-ACM	Exterior Baseboard Heat Vents	ND	
50A-HK-190401	Black Weatherproofing	Cat 2 NF	Awning (Around Bolts)	20% Chrysotile	
50B-HK-190401	Black Weatherproofing	Cat 2 NF	Awning (Around Bolts)	Pos Stop	
51A-HK-190401	Black Caulking	Non-ACM	Exterior Window Frame	ND	
51B-HK-190401	Black Caulking	Non-ACM	Exterior Window Frame	ND	
52A-HK-190401	Cream Thin-Set Mortar	Non-ACM	Exterior Wall Tiles	ND	
52B-HK-190401	Cream Thin-Set Mortar	Non-ACM	Exterior Wall Tiles	ND	
53A-HK-190401	Gray Grout	Non-ACM	Exterior Wall Tile Grout	ND	
53B-HK-190401	Gray Grout	Non-ACM	Exterior Wall Tile Grout	ND	
54A-HK-190401	Gray Caulking	Cat 2 NF	Exterior Caulking (Metal to Tile)	5% Chrysotile	
54B-HK-190401	Gray Caulking	Cat 2 NF	Exterior Caulking (Metal to Tile)	Pos Stop	
55A-HK-190401	Gray Caulking	Non-ACM	Exterior Kitchen Vent	ND	
55B-HK-190401	Gray Caulking	Non-ACM	Exterior Kitchen Vent	ND	
56A-HK-190401	White Joint Compound	Non-ACM	Cafeteria	ND	
56B-HK-190401	White Joint Compound	Cat 2 NF	Room 7 (Partition)	2% Chrysotile	
57A-HK-190401	White Gypsum Wallboard	Non-ACM	Maintenance Garage	ND	
57B-HK-190401	White Gypsum Wallboard	Non-ACM	Cafeteria	ND	
57C-HK-190401	White Gypsum Wallboard	Non-ACM	Room 7	ND	
58A-HK-190401	White Grout	Non-ACM	Auditorium Wall Tile	ND	
58B-HK-190401	White Grout	Non-ACM	Auditorium Wall Tile	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
59A-HK-190401	Cream Adhesive	Non-ACM	Auditorium Wall Tile	ND	
59B-HK-190401	Cream Adhesive	Non-ACM	Auditorium Wall Tile	ND	
60A-HK-190401	Cream Adhesive	Non-ACM	Living Bathroom	ND	
60B-HK-190401	Cream Adhesive	Non-ACM	White Wall Tiles	ND	
61A-HK-190401	Cream Adhesive	Non-ACM	Girl's Bathroom By Gym Gray Wall Tile	ND	
61B-HK-190401	Cream Adhesive	Non-ACM	Girl's Bathroom By Gym Gray Wall Tile	ND	
62A-HK-190401	Cream Adhesive	Non-ACM	Kitchen Light Blue Wall Tile	ND	
62B-HK-190401	Cream Adhesive	Non-ACM	Kitchen Light Blue Wall Tile	ND	
63A-HK-190401	Cream Adhesive	Non-ACM	Cafeteria Wall Tile	ND	
63B-HK-190401	Cream Adhesive	Non-ACM	Cafeteria Wall Tile	ND	
64A-HK-190401	White Grout	Non-ACM	Kitchen Wall Tile	ND	
64B-HK-190401	White Grout	Non-ACM	Kitchen Wall Tile	ND	
65A-HK-190401	Cream Adhesive	Non-ACM	Maintenance Dept. Bathroom	ND	
65B-HK-190401	Cream Adhesive	Non-ACM	Maintenance Dept. Bathroom	ND	

Cat 1 NF = Category I Non-Friable Material

Cat 2 NF = Category II Non-Friable Material

Pos Stop = Positive Stop

ND = None Detected

ACM = Asbestos-Containing Material

ACWM = Asbestos-Containing Waste Material

TEM = Transmission Electron Microscopy

Table 2
Asbestos-Containing Materials Summary

Leicester Middle School
Leicester, Massachusetts

Finegold Alexander Architects
April 2019
Fuss & O'Neill Reference No. 20181089.A10

Asbestos-Containing Material Type	Locations(s)	Asbestos Content	Estimated Total Quantity	Comments
White 12" x 12" with Gray Streaks	Rooms 33 & 36	2% Chrysotile	1,800 SF	
Brown 9" x 9" with White Specks	Auditorium Office, Library Offices, Maintenance Office, Rooms 2, 7-11, 20, 24, 26, 28, & 30	5% Chrysotile	10,800 SF	
Light Brown 9" x 9" with White Streaks		5% Chrysotile		
Light Green 12" x 12" with White Streaks	Gymnasium & Room 25	5% Chrysotile	2,650 SF	
Dark Brown 12" x 12" with Black Streaks	Boiler Room Hallway	2% Chrysotile	1,600 SF	
Brown 9" x 9" with Orange & White Streaks	School Store	2% Chrysotile	1,050 SF	
Black Mastic	Gymnasium, Library Offices, Maintenance Office, School Store, Rooms 2, 7-11, 20, 25, 26, 28, 30, 33, & 36	10% Chrysotile	12,550 SF	
Black Sink Undercoating	Room 24	2% Chrysotile	1 EA	
Gray Glazing Compound	Hallway-to-Classroom Partition Walls (Top-of-Wall)	2% Chrysotile	3,500 LF	
Gray AirCell Pipe Insulation	Kitchen & Concealed Locations throughout Building	70% Chrysotile	750 LF	
White Mudded Pipe Insulation		60% Chrysotile	75 EA	
Black Weatherproofing	Awning (Around Bolts)	20% Chrysotile	50 SF	
Gray Caulking	Exterior Caulking (Metal to Tile)	5% Chrysotile	1,500 LF	
White Joint Compound	Classroom-to-Classroom Partition Walls	2% Chrysotile	5,600 SF	50% of Classroom-to-Classroom Partition Walls
Ceramic Floor Tile Components	Boy's & Girl's Locker Rooms, Boy's & Girl's Bathrooms	Assumed	7,500 SF	
Interior Boiler Components & Boiler Pad	Boiler Room	Assumed	2 EA	
Exterior Dampproofing	Exterior Walls	Assumed	18,500 SF	
Materials Associated with Gymnasium Floor	Gymnasium	Assumed	6,750 SF	Include Possible Mercury Remediation
Sub-Slab Dampproofing	Beneath Slab	Assumed	1,400 CY	Assumes 6" slab
Roofing Materials	Roof	Assumed	75,600 SF	

CY = Cubic Yards; EA = Each, LF = Linear Feet, SF = Square Feet

ACM = Asbestos-Containing Material

Table 3
Presumed PCB-Containing Source Building Materials Summary

Material Type	Location	Estimated Quantity
Gray Glazing Compound*	Hallway-to-Classroom Partition Walls	3,500 LF
Gray Caulking*	Exterior, Metal Colum-to-Tile Joint	1,500 LF
Black Caulking	Hallway Fire Door Systems	1,500 LF
Gray Control-Joint Caulking	Interior Control Joints	250 LF
Brown Door Caulking	Gym-to-to Exterior Door	150 LF
Gray Door Caulking	Kitchen-to-Maintenance Door	25 LF
Black Interior/Exterior Window Caulking	Exterior Windows	1,500 LF
Gray Vent Caulking	Exterior Vents	500 LF

LF = Linear Feet

* Denotes material type also contains, or is presumed to contain, asbestos

Appendix A

Limitations

APPENDIX A

Leicester Middle School
Leicester, Massachusetts

1. This environmental report has been prepared for the exclusive use of the Client, and is subject to, and is issued in connection with, the general terms and conditions of the original Agreement (December 5, 2019) and all of its provisions. Any use or reliance upon information provided in this report, without the specific written authorization of the Client and Fuss & O'Neill, shall be at the User's individual risk. This report should not be used as an abatement specification. All quantities of materials identified during this inspection are approximate.
2. Fuss & O'Neill has obtained and relied upon laboratory analytical results in conducting the inspection. This information was used to form conclusions regarding the types and quantities of ACM source materials that must be managed prior to renovation or demolition activities that may disturb these materials at the subject property. Fuss & O'Neill has not performed an independent review of the reliability of this laboratory data.
3. Unless otherwise noted, only suspect hazardous materials associated within or located on the building (aboveground) were included in this inspection. Suspect hazardous materials may exist below the ground surfaces or inaccessible areas of the building that were not included in the scope of work of this inspection. EnviroScience cannot guarantee all asbestos or suspect hazardous materials were identified within the areas included in the scope of work. Only visible and accessible areas were included in the scope of work for this inspection.
4. The findings, observations, and conclusions presented in this report are limited by the scope of services outlined in our original Agreement, which reflects schedule and budgetary constraints imposed by the Client. Furthermore, the assessment has been conducted in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made.
5. The conclusions presented in this report are based solely upon information gathered by Fuss & O'Neill to date. Should further environmental or other relevant information be discovered at a later date, the Client should immediately bring the information to Fuss & O'Neill's attention. Based upon an evaluation and assessment of relevant information, Fuss & O'Neill may modify the report and its conclusions.
6. Fuss & O'Neill has obtained and relied upon information from multiple sources to form certain conclusions regarding likely environmental issues at and in the vicinity of the subject property in conducting this inspection. Except as otherwise noted, no attempt has been made to verify the accuracy or completeness of such information or verify compliance by any party with federal, state or local laws or regulations.

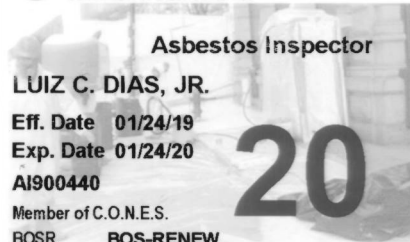
Appendix B

Fuss & O'Neill Asbestos Inspector State Certifications & EPA Accreditations



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

William D. McKinney,
Director



Asbestos Inspector

LUIZ C. DIAS, JR.

Eff. Date 01/24/19

Exp. Date 01/24/20

AI900440

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

BOSR BOS-RENEW

20





This is to certify that

Lou C. Dias Jr.

*has completed the requisite training, 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

Institute for Environmental Education
16 Upton Drive Wilmington, MA 01887

November 19, 2018

Course Dates

18-1208-106-207949

Certificate Number

November 19, 2018

Examination Date

November 19, 2019

Expiration Date

Training Director

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

INSTITUTE FOR ENVIRONMENTAL EDUCATION



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

William D. McKinney,
Director

Asbestos Inspector

HEIDI KELLER

Eff. Date 02/27/19
Exp. Date 02/27/20

AI900730

Member of C.O.N.E.S.
BOSR BOS-RENEW

20





This is to certify that

Heidi Keller

*has completed the requisite training, 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

Institute for Environmental Education
16 Upton Drive Wilmington, MA 01887

November 2, 2018

Course Dates

18-1207-106-267547

Certificate Number

November 02, 2018

Examination Date

November 02, 2019

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION

Appendix C

Asbestos Laboratory Analytical Reports & Chain-of-Custody Form



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 131902222

Customer ID: ENVI54

Customer PO: 20181089.A10

Project ID:

Attention: H Keller
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469

Fax: (888) 838-1160

Received Date: 04/03/2019 9:30 AM

Analysis Date: 04/04/2019 - 04/05/2019

Collected Date: 04/01/2019

Project: Leicester Middle School / 20181089.A10 / 70 Winslow Avenue

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A-HK-190401 <small>131902222-0001</small>	Room 24 - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B-HK-190401 <small>131902222-0002</small>	Gym Storage Room - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01C-HK-190401 <small>131902222-0003</small>	Boiler Room - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01D-HK-190401 <small>131902222-0004</small>	Boiler Room w/ Storage - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01E-HK-190401 <small>131902222-0005</small>	Cafeteria - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01F-HK-190401 <small>131902222-0006</small>	IT Room - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01G-HK-190401 <small>131902222-0007</small>	Auditorium - White Thin Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A-HK-190401 <small>131902222-0008</small>	Room 24 - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B-HK-190401 <small>131902222-0009</small>	Gym Storage Room - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02C-HK-190401 <small>131902222-0010</small>	Boiler Room - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02D-HK-190401 <small>131902222-0011</small>	Boiler Room w/ Storage - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02E-HK-190401 <small>131902222-0012</small>	Cafeteria - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02F-HK-190401 <small>131902222-0013</small>	IT Room - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02G-HK-190401 <small>131902222-0014</small>	Auditorium - Gray Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A-HK-190401 <small>131902222-0015</small>	Room 36 Hallway - Blue 12x12 w/ Black Streaks	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B-HK-190401 <small>131902222-0016</small>	Room 12 Hallway - Blue 12x12 w/ Black Streaks	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/05/2019 17:15:15



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 131902222
Customer ID: ENVI54
Customer PO: 20181089.A10
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
04A-HK-190401 <i>131902222-0017</i>	Room 36 Hallway - Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B-HK-190401 <i>131902222-0018</i>	Room 12 Hallway - Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A-HK-190401 <i>131902222-0019</i>	Room 19 Hallway - Orange 12x12 w/ White Streaks	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B-HK-190401 <i>131902222-0020</i>	Room 30 Hallway - Orange 12x12 w/ White Streaks	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06A-HK-190401 <i>131902222-0021</i>	Room 19 Hallway - Cream Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06B-HK-190401 <i>131902222-0022</i>	Room 30 Hallway - Cream Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A-HK-190401 <i>131902222-0023</i>	Gym Hallway - Black 12x12 w/ White Streaks	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07B-HK-190401 <i>131902222-0024</i>	Room 19 Hallway - Black 12x12 w/ White Streaks	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08A-HK-190401 <i>131902222-0025</i>	Gym Hallway - Black Mastic <i>Sample appears to be yellow mastic.</i>	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08B-HK-190401 <i>131902222-0026</i>	Room 19 Hallway - Black Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09A-HK-190401 <i>131902222-0027</i>	Room 36 - White 12x12 w/ Gray Streaks	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
09B-HK-190401 <i>131902222-0028</i>	Room 33 - White 12x12 w/ Gray Streaks				Positive Stop (Not Analyzed)
10A-HK-190401 <i>131902222-0029</i>	Room 36 - Black Mastic				Insufficient Material
10B-HK-190401 <i>131902222-0030</i>	Room 33 - Black Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
11A-HK-190401 <i>131902222-0031</i>	Auditorium Office - Brown 9x9 w/ White Specks	Brown Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
11B-HK-190401 <i>131902222-0032</i>	Room 30 - Brown 9x9 w/ White Specks				Positive Stop (Not Analyzed)
12A-HK-190401 <i>131902222-0033</i>	Auditorium Office - Black Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
12B-HK-190401 <i>131902222-0034</i>	Room 3 - Black Mastic				Positive Stop (Not Analyzed)
13A-HK-190401 <i>131902222-0035</i>	Cafeteria - Light Blue 12x12 w/ Bark Blue Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/05/2019 17:15:15



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 131902222

Customer ID: ENVI54

Customer PO: 20181089.A10

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
13B-HK-190401 <small>131902222-0036</small>	Cafeteria Hallway - Light Blue 12x12 w/ Bark Blue Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A-HK-190401 <small>131902222-0037</small>	Cafeteria - Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14B-HK-190401 <small>131902222-0038</small>	Cafeteria Hallway - Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15A-HK-190401 <small>131902222-0039</small>	Gym - Light Green 12x12 w/ White Streaks	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
15B-HK-190401 <small>131902222-0040</small>	Room 25 - Light Green 12x12 w/ White Streaks				Positive Stop (Not Analyzed)
16A-HK-190401 <small>131902222-0041</small>	Gym - Black Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
16B-HK-190401 <small>131902222-0042</small>	Room 25 - Black Mastic				Positive Stop (Not Analyzed)
17A-HK-190401 <small>131902222-0043</small>	Room 36 - White 12x12 w/ Cream Streaks	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17B-HK-190401 <small>131902222-0044</small>	Room 32 - White 12x12 w/ Cream Streaks	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18A-HK-190401 <small>131902222-0045</small>	Room 36 - Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18B-HK-190401 <small>131902222-0046</small>	Room 32 - Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19A-HK-190401 <small>131902222-0047</small>	Room 24 - Light Brown 9x9 w/ White Streaks	Brown Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
19B-HK-190401 <small>131902222-0048</small>	Auditorium Office - Light Brown 9x9 w/ White Streaks				Positive Stop (Not Analyzed)
20A-HK-190401 <small>131902222-0049</small>	Room 24 - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20B-HK-190401 <small>131902222-0050</small>	Auditorium Office - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21A-HK-190401 <small>131902222-0051</small>	Boiler Room Hallway - Dark Brown 12x12 w/ Black Streaks	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
21B-HK-190401 <small>131902222-0052</small>	Gym Hallway - Dark Brown 12x12 w/ Black Streaks				Positive Stop (Not Analyzed)
22A-HK-190401 <small>131902222-0053</small>	Boiler Room Hallway - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22B-HK-190401 <small>131902222-0054</small>	Gym Hallway - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/05/2019 17:15:15



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 131902222
Customer ID: ENVI54
Customer PO: 20181089.A10
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
23A-HK-190401 <small>131902222-0055</small>	Room 24 - Black Sink Undercoating	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
23B-HK-190401 <small>131902222-0056</small>	Room 24 - Black Sink Undercoating				Positive Stop (Not Analyzed)
24A-HK-190401 <small>131902222-0057</small>	Auditorium - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24B-HK-190401 <small>131902222-0058</small>	Auditorium - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25A-HK-190401 <small>131902222-0059</small>	Auditorium - White Sand Proofing Wall Tiles	Gray Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
25B-HK-190401 <small>131902222-0060</small>	Auditorium - White Sand Proofing Wall Tiles	Gray Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
26A-HK-190401 <small>131902222-0061</small>	School Store - Brown 9x9 w/ Orange + White Streaks	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
26B-HK-190401 <small>131902222-0062</small>	School Store - Brown 9x9 w/ Orange + White Streaks				Positive Stop (Not Analyzed)
27A-HK-190401 <small>131902222-0063</small>	School Store - Black Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
27B-HK-190401 <small>131902222-0064</small>	School Store - Black Mastic				Positive Stop (Not Analyzed)
28A-HK-190401 <small>131902222-0065</small>	Room 32 - Yellow Carpet Square Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28B-HK-190401 <small>131902222-0066</small>	Room 32 - Yellow Carpet Square Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29A-HK-190401 <small>131902222-0067</small>	Room 36 - White Vinyl Baseboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29B-HK-190401 <small>131902222-0068</small>	Room 33 - White Vinyl Baseboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30A-HK-190401 <small>131902222-0069</small>	Room 36 - Cream Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30B-HK-190401 <small>131902222-0070</small>	Room 33 - Cream Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31A-HK-190401 <small>131902222-0071</small>	Room 13 - Gray Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31B-HK-190401 <small>131902222-0072</small>	Room 13 - Gray Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32A-HK-190401 <small>131902222-0073</small>	Room 24 - Greenish Gray Vinyl Baseboard	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/05/2019 17:15:15



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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EMSL Order: 131902222
Customer ID: ENVI54
Customer PO: 20181089.A10
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
32B-HK-190401 <small>131902222-0074</small>	Room 24 - Greenish Gray Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33A-HK-190401 <small>131902222-0075</small>	Room 24 - Brown Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33B-HK-190401 <small>131902222-0076</small>	Room 24 - Brown Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34A-HK-190401 <small>131902222-0077</small>	Boiler Room Hallway - Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34B-HK-190401 <small>131902222-0078</small>	Gym Hallway - Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35A-HK-190401 <small>131902222-0079</small>	Boiler Room Hallway - Cream Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35B-HK-190401 <small>131902222-0080</small>	Gym Hallway - Cream Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36A-HK-190401 <small>131902222-0081</small>	Room 32 - Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36B-HK-190401 <small>131902222-0082</small>	Room 32 - Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37A-HK-190401 <small>131902222-0083</small>	Room 32 - Cream Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37B-HK-190401 <small>131902222-0084</small>	Room 32 - Cream Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38A-HK-190401 <small>131902222-0085</small>	Gym Hallway - Dot & Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
38B-HK-190401 <small>131902222-0086</small>	Room 24 - Dot & Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
39A-HK-190401 <small>131902222-0087</small>	Room 34 - Dot & Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
39B-HK-190401 <small>131902222-0088</small>	Room 36 - Dot & Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
40A-HK-190401 <small>131902222-0089</small>	Kitchen (Above Suspended Ceiling) - White Mudded Pipe Insulation	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
40B-HK-190401 <small>131902222-0090</small>	Kitchen (Above Suspended Ceiling) - White Mudded Pipe Insulation				Positive Stop (Not Analyzed)
40C-HK-190401 <small>131902222-0091</small>	Kitchen Storage - White Mudded Pipe Insulation				Positive Stop (Not Analyzed)

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EMSL Order: 131902222
Customer ID: ENVI54
Customer PO: 20181089.A10
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
41A-HK-190401 <small>131902222-0092</small>	Interior Hallway - Gray Glazing	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
41B-HK-190401 <small>131902222-0093</small>	Windows - Gray Glazing				Positive Stop (Not Analyzed)
42A-HK-190401 <small>131902222-0094</small>	Room 26 Hallway Door Window - Black Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
42B-HK-190401 <small>131902222-0095</small>	Room 19 Hallway Door Window - Black Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43A-HK-190401 <small>131902222-0096</small>	Room 26 Hallway Side Window - Black Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43B-HK-190401 <small>131902222-0097</small>	Room 19 Hallway Side Window - Black Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44A-HK-190401 <small>131902222-0098</small>	Room 12 Hallway Control Joint - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44B-HK-190401 <small>131902222-0099</small>	Cafeteria Control Joint - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45A-HK-190401 <small>131902222-0100</small>	Kitchen - Gray Air Cell Pipe Insulation	Gray Fibrous Homogeneous		30% Non-fibrous (Other)	70% Chrysotile
45B-HK-190401 <small>131902222-0101</small>	Kitchen - Gray Air Cell Pipe Insulation				Positive Stop (Not Analyzed)
46A-HK-190401 <small>131902222-0102</small>	Interior of Gym Door to the Exterior - Brown Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46B-HK-190401 <small>131902222-0103</small>	Interior of Gym Door to the Exterior - Brown Caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47A-HK-190401 <small>131902222-0104</small>	Interior Door B/W Kitchen + Maintenance - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47B-HK-190401 <small>131902222-0105</small>	Interior Door B/W Kitchen + Maintenance - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48A-HK-190401 <small>131902222-0106</small>	Exterior Windows - Black Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48B-HK-190401 <small>131902222-0107</small>	Exterior Windows - Black Caulking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
49A-HK-190401 <small>131902222-0108</small>	Exterior Baseboard Heat Vents - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
49B-HK-190401 <small>131902222-0109</small>	Exterior Baseboard Heat Vents - Gray Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 131902222

Customer ID: ENVI54

Customer PO: 20181089.A10

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
50A-HK-190401 <small>131902222-0110</small>	Awning (Around Bolts) - Black Weatherproofing	Black Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
50B-HK-190401 <small>131902222-0111</small>	Awning (Around Bolts) - Black Weatherproofing				Positive Stop (Not Analyzed)
51A-HK-190401 <small>131902222-0112</small>	Exterior Window Frame - Black Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51B-HK-190401 <small>131902222-0113</small>	Exterior Window Frame - Black Caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52A-HK-190401 <small>131902222-0114</small>	Exterior Wall Tiles - Cream Thin Set	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52B-HK-190401 <small>131902222-0115</small>	Exterior Wall Tiles - Cream Thin Set	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53A-HK-190401 <small>131902222-0116</small>	Exterior Wall Tile Grout - Gray Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53B-HK-190401 <small>131902222-0117</small>	Exterior Wall Tile Grout - Gray Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
54A-HK-190401 <small>131902222-0118</small>	Exterior Caulking (Metal to Tile) - Gray Caulking	Gray Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
54B-HK-190401 <small>131902222-0119</small>	Exterior Caulking (Metal to Tile) - Gray Caulking				Positive Stop (Not Analyzed)
55A-HK-190401 <small>131902222-0120</small>	Exterior Kitchen Vent - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
55B-HK-190401 <small>131902222-0121</small>	Exterior Kitchen Vent - Gray Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
56A-HK-190401 <small>131902222-0122</small>	Cafeteria - White Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
56B-HK-190401 <small>131902222-0123</small>	Room 7 (Partition) - White Joint Compound	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
57A-HK-190401 <small>131902222-0124</small>	Maintenance Garage - White Gypsum Wallboard	Tan/White Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
57B-HK-190401 <small>131902222-0125</small>	Cafeteria - White Gypsum Wallboard	Gray/Tan Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
57C-HK-190401 <small>131902222-0126</small>	Room 7 - White Gypsum Wallboard	Gray/Tan Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
58A-HK-190401 <small>131902222-0127</small>	Auditorium Wall Tile - White Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
58B-HK-190401 <small>131902222-0128</small>	Auditorium Wall Tile - White Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 131902222
Customer ID: ENVI54
Customer PO: 20181089.A10
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
59A-HK-190401 <small>131902222-0129</small>	Auditorium Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
59B-HK-190401 <small>131902222-0130</small>	Auditorium Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60A-HK-190401 <small>131902222-0131</small>	Living Bathroom - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60B-HK-190401 <small>131902222-0132</small>	White Wall Tiles - Cream Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
61A-HK-190401 <small>131902222-0133</small>	Girl's Bathroom by Gym Gray Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
61B-HK-190401 <small>131902222-0134</small>	Girl's Bathroom by Gym Gray Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
62A-HK-190401 <small>131902222-0135</small>	Kitchen Light Blue Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
62B-HK-190401 <small>131902222-0136</small>	Kitchen Light Blue Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
63A-HK-190401 <small>131902222-0137</small>	Cafeteria Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
63B-HK-190401 <small>131902222-0138</small>	Cafeteria Wall Tile - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
64A-HK-190401 <small>131902222-0139</small>	Kitchen Wall Tile - White Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
64B-HK-190401 <small>131902222-0140</small>	Kitchen Wall Tile - White Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65A-HK-190401 <small>131902222-0141</small>	Maintenance Dept. Bathroom - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65B-HK-190401 <small>131902222-0142</small>	Maintenance Dept. Bathroom - Cream Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) _____

Elizabeth Stutts (24)

John McCarthy (41)

Kevin Pine (60)

Steve Grise, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, Maine Bulk Asbestos LB-0039

Initial report from: 04/05/2019 17:15:15



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EMSL Order: 131902222

Customer ID: ENVI54

Customer PO: 20181089.A10

Project ID:

Attention: H Keller
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469

Fax: (888) 838-1160

Received Date: 04/03/2019 9:30 AM

Analysis Date: 04/10/2019

Collected Date: 04/01/2019

Project: Leicester Middle School / 20181089.A10 / 70 Winslow Avenue

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
05A-HK-190401 131902222-0019	Room 19 Hallway - Orange 12x12 w/ White Streaks	Orange Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
06A-HK-190401 131902222-0021	Room 19 Hallway - Cream Mastic	Beige Non-Fibrous Homogeneous	99.09 Other	None	0.91% Chrysotile
42A-HK-190401 131902222-0094	Room 26 Hallway Door Window - Black Caulking	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
43A-HK-190401 131902222-0096	Room 26 Hallway Side Window - Black Caulking	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
44A-HK-190401 131902222-0098	Room 12 Hallway Control Joint - Gray Caulking	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
48A-HK-190401 131902222-0106	Exterior Windows - Black Caulking	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
51A-HK-190401 131902222-0112	Exterior Window Frame - Black Caulking	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
63A-HK-190401 131902222-0137	Cafeteria Wall Tile - Cream Adhesive	Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Matthew Conley (8)

Steve Grise, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA

Initial report from: 04/10/2019 09:48:58



108 Myrtle Street, Suite 502, Quincy, MA 02171

Phone (617) 282-4675 Fax (617) 282-8253

Asbestos Bulk Sample Chain-of-Custody Form

Sheet 1 of 6

Project Name: Leicester Middle School Project No.: 20181089.A10 Task: _____

Building Name/Number: _____ Project Manager: Dustin Diedricksen

Site Address: 70 Winslow Avenue Total # of Samples: 142

Sample ID (#-Initials-Date)	Material Type (Size, Color, Description, Material)	Sample Location	Comments/ Quantities
01A - 14h-190401	white thin coat	Room 24	plaster
01B		Gym storage room	
01C		Boiler room	
01D		Boiler room w/ storage	
01E		Cafeteria	
01F		IT Room	
01G		Auditorium	
02A		gray rough coat	
02B		Gym storage room	
02C		Boiler room	
02D		Boiler room w/ storage	
02E		Cafeteria	
02F		IT Room	
02G		Auditorium	
★ 03A		blue 12x12 w/ black streaks	
03B		Room 12 Hallway	
04A	yellow mastic	Room 36 Hallway	blue 12x12
04B		Room 12 Hallway	
★ 05A	orange 12x12 w/ white streaks	Room 19 Hallway	
05B		Room 30 Hallway	
★ 06A	cream mastic	Room 19 Hallway	orange 12x12
06B		Room 30 Hallway	
07A	black 12x12 w/ white streaks	Gym Hallway	
07B		Room 19 Hallway	

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	08A-AH-190401	black mastic	Gym Hallway	black 12x12
	08B		Room 19 Hallway	
★	09A	white 12x12 w/	Room 36	
	09B	gray streaks	Room 33	
	10A	black mastic	Room 36	white 12x12
	10B		Room 33	w/ gray streaks
	11A	brown 9x9 w/	Auditorium office	
	11B	white speckles	Room 30	
★	12A	black mastic	Auditorium office	brown 9x9
	12B		Room 3	w/ speckles
	13A	light blue 12x12	Cafeteria	
	13B	w/ dark blue streaks	Cafeteria Hallway	
	14A	yellow mastic	Cafeteria	light blue
	14B		Cafeteria Hallway	12x12
	15A	light green 12x12	Gym	
	15B	w/ white streaks	Room 25	
★	16A	black mastic	Gym	lg green
	16B		Room 25	12x12
	17A	white 12x12 w/	Room 36	
	17B	cream streaks	Room 32	
	18A	yellow mastic	Room 36	white 12x12
	18B		Room 30	w/ cream
	19A	light brown 9x9	Room 24	
	19B	w/ white streaks	Auditorium office	
	20A	black mastic	Room 24	lt. brown
	20B		Auditorium office	9x9
★	21A	dark brown 12x12	Boiler room hallway	
	21B	w/ black streaks	Gym hallway	
	22A	black mastic	Boiler room hallway	dark brown

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3 of 6

22B-AH-190401	black mastic	Gym hallway	dark brown 2x2
23A	black sink	Room 24	
23B	undercoating		
24A	yellow carpet mastic	Auditorium	
24B			
25A	white sand proofing		
25B	wall tiles		
26A	brown 9x9 w/	School Store	
26B	orange + white Straws		
27A	black mastic		brown 9x9
27B			w/orange
28A	yellow carpet square	Room 30	
28B	adhesive		
29A	white vinyl	Room 36	
29B	baseboard	Room 33	
30A	cream mastic	Room 36	white
30B		Room 33	baseboard
31A	gray vinyl	Room 13	
31B	baseboard		
32A	greenish gray	Room 24	
32B	vinyl baseboard		
33A	brown mastic		greenish gray
33B			baseboard
34A	black vinyl	Boiler room hallway	
34B	baseboard	Gym hallway	
35A	cream mastic	Boiler room hallway	black
35B		Gym hallway	baseboard
36A	black vinyl	Room 32	newer
36B	baseboard		bdg.

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37A -HK-190401	Cream mastic	Room 32	black
37B			baseboard
38A	dot + fissure ceiling	Gym Hallway	
38B	tile	Room 24	
39A		Room 34	new
39B		Room 36	bdly
40A	white mudded pipe	Kitchen (above	
40B	insulation	Suspended ceiling)	
40C		Kitchen Storage	
41A	gray glazing	Interior Hallway	
41B		Windows	
★ 42A	black caulking	Room 26 Hallway ^{Door} Window	Interior
42B		Room 19 Hallway ^{Door} Window	door
★ 43A		Rm 26 Hallway ^{Side} Window	system
43B		Rm 19 Hallway ^{Side} Window	
★ 44A	gray caulking	Room 12 Hallway ^{Control} Joint	
44B		Cafeteria Control Joint	
45A	gray air cell	Kitchen	
45B	pipe insulation		
46A	brown caulking	Interior of Gym door	
46B		to the exterior	
47A	gray caulking	Interior Door B/w	
47B		Kitchen + Maintenance	
★ 48A	black caulking	Exterior Windows	Front of
48B			School
49A	gray caulking	Exterior baseboard	
49B		heat vents	
50A	black weatherproofing	Awning (around	
50B		bolts)	

REC'D AF 9:30 AM
EMSL-BOSTON APR 03 2019



*51A-HK-190401	black caulking	Extensor window frame	Side
51B			windows
52A	cream thin set	Extensor wall tiles	
52B			
53A	gray grout	Extensor wall tile grout	
53B			
54A	gray caulking	Extensor caulking	
54B		(metal to tile)	
55A	gray caulking	Extensor kitchen vent	
55B			
56A	white joint compound	Cafeteria	
56B		Room 7 (partition)	
57A	white gypsum	Maintenance Garage	
57B	wallboard	Cafeteria	
57C		Room 7	
58A	white grout	Auditorium wall tile	
58B			
59A	cream adhesive		
59B			
60A	cream adhesive	Living Bathroom	
60B		White Wall Tiles	
61A	cream adhesive	Girls Bathroom by	
61B		Gym Gray Wall Tile.	
62A	cream adhesive	Kitchen Light Blue	
62B		Wall Tile.	
*63A	cream adhesive	Cafeteria Wall Tile	
63B			
64A	white grout	Kitchen Wall Tile	
64B			

REC'D AF 9:30 AM
EMSL-BOSTON APR 03 2019

131902222

Funk, Austin

From: Heidi Keller <HKeller@fando.com>
Sent: Thursday, April 4, 2019 8:47 AM
To: EMSL Lab - Boston
Subject: RE: Change in TAT - Leicester Middle School
Attachments: image003.png; image001.jpg

Please remove 03A and 09A from the TEM list.

Thanks!

Heidi Keller
Hydrogeologist
Fuss & O'Neill, Inc. | 108 Myrtle Street, Suite 502 | Quincy, MA 02171
617.282.4675 x4709 | hkeller@fando.com | cell:419.553.7275 | https://urldefense.proofpoint.com/v2/url?u=http-3A__www.fando.com&d=DwIF-g&c=euGZstcaTDllvimEN8b7jXrwqOf-v5A_CdpnVfiiMM&r=M6BHBardEis5fzEyTTzKQQ5QBNCmHuvSI73xLyoydAo&m=sTrxiKKP_iQBi6Udc8Md5rzig6xm03hedl a9k0ahw674&s=l8TOfjVb6dyH3SX8z-JDXR8-LVq-LNKQ8XU3ClIxHdc&e=

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From: Funk, Austin [afunk@EMSL.com] on behalf of EMSL Lab - Boston [bostonlab@EMSL.com]
Sent: Wednesday, April 3, 2019 4:58 PM
To: Heidi Keller
Subject: RE: Change in TAT - Leicester Middle School

Here you go, let us know which you would like taken out

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a9k0ahw674&s=D6H2cHfkhXnrAxZdVLWpDGVWlGw68EGx5T41_6x3Sxg&e=> Austin Funk | Administrative Assistant
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From: Heidi Keller [mailto:HKeller@fando.com]

Sent: Wednesday, April 3, 2019 1:52 PM

To: EMSL Lab - Boston <bostonlab@EMSL.com>
Subject: Change in TAT - Leicester Middle School

Good afternoon-

I collected samples at the Leicester Middle School on April 1, 2019 and they should have arrived today. Please change the turnaround time to 48-hours for both the PLM and TEM samples. I will be removing two of the TEM samples, however, I do not have a copy of the chain to review. Could you please send over a copy when it is processed?

Thanks,

[FO]

Heidi Keller

Hydrogeologist

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617.282.4675 x4709 | hkeller@fando.com<mailto:hkeller@fando.com> | cell: 419.553.7275
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