

June 6, 2024

Rick Underwood
Director of Operations & Maintenance
Lowell Public Schools
155 Merrimack Street, 4<sup>th</sup> Floor
Lowell, Massachusetts 01852

RE: AHERA 3-Year Reinspection
James S. Daley Middle School
150 Fleming Street
Lowell, Massachusetts
EFI Project No. 014.07795

Dear Rick:

EFI Global Inc. (EFI) is pleased to present this AHERA 3-Year Re-inspection Report prepared for the James S. Daley Middle School located at 150 Fleming Street, Lowell, Massachusetts (Site). The reinspection site visit was conducted on April 16<sup>th</sup> and 17<sup>th</sup>, 2024, and the corresponding report was completed in accordance with the United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR 763) and Massachusetts Department of Labor Standards "Requirements for Schools Subject to AHERA" regulations (454 CMR 28.13).

EFI relied upon previous 3-Year Inspection and Management Plan Update report from 2014 prepared by Cardo ATC, and 2017 and 2020 reinspection's prepared by EFI Global Inc. The original AHERA Management Plan and other subsequent records were not made available at the school or at the administrative office for review. EFI relied upon the 2020 table of identified ACM along with visual assessment and bulk sampling of new materials for this reinspection. The school's Management Plan and records should be located and kept on file at the school and the administrative offices.

EFI is pleased to provide environmental consulting services to Lowell Public Schools. This report should be kept on file with the school's AHERA records. If you have any questions regarding the contents of this report, or need additional information, please contact either of the undersigned at (800) 659-1202. Thank you for the opportunity to serve your environmental needs.

Sincerely, **EFI Global, Inc.** 

Michael McCarter Senior Project Manager

MA Asbestos Inspector # AI 001825

Meelrael M Carter

John Vaz

Senior Project Manager

MA Asbestos Management Planner #AP 900524

via email: runderwood@lowell.k12.ma.us

## **AHERA 3-YEAR REINSPECTION**

FOR:

# JAMES S. DALEY MIDDLE SCHOOL 150 FLEMING STEET LOWELL, MASSACHUSETTS

### PREPARED BY:



155 WEST STREET, SUITE 6
WILMINGTON, MASSACHUSETTS 01887

**EFI PROJECT NUMBER 014.07795** 

June 11, 2024

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Attachment A – AHERA Summary Table of ACMs and Recommended Response Actions

Attachment B – Site Plans

Attachment C – 2024 Reinspection Bulk Sample Locations

Attachment D - 2024 Reinspection Asbestos Bulk Sample Laboratory Report

Attachment E – Licenses and Training Certificates of Asbestos Inspector and Management Planner

### **INTRODUCTION**

EFI Global, Inc. (EFI) was retained by Lowell Public Schools to perform a 3-Year AHERA Reinspection in accordance with United States Environmental Protection (USEPA) Asbestos Hazard Emergency Response Act (AHERA) asbestos regulations (40 CFR 763) and Massachusetts Department of Labor Standards "Requirements for Schools Subject to AHERA" regulations (454 CMR 28.13). These regulations, commonly known as the "Asbestos in Schools Rule," require under 40 CFR 763.80 and 454 CMR 28.13(2)(b)(1) that local education agencies (LEAs) must conduct a reinspection at least once every three years of all friable and nonfriable known or assumed asbestos-containing materials (ACMs). The reinspection includes all previously known and assumed ACMs, as well as any additional suspect ACM not previously included, as required by 40 CFR 763.80 and 454 CMR 28.13 in each school building leased, owned, or otherwise used as a school building. A school building is defined in 454 CMR 28.02 as including each of the following:

- Any structure suitable for use as a classroom, including a school facility such as a library, school
  eating facility, or facility used in the preparation of food
- Any gymnasium or other facility which is specially designed for athletic or recreational activities for an academic course in physical education
- Any other facility used for the instruction or housing of students or for the administration of educational or research programs
- Any maintenance, storage, or utility facility, including any hallway, essential to the operation of any facility described as a school building above
- Any portico or covered exterior hallway or walkway
- Any exterior portion of a mechanical system used to condition interior space.

EFI conducted a 3-year AHERA reinspection at the James S. Daley Middle School, which involved determining the condition and hazard potential of previously known and assumed ACMs, and additional confirmed and assumed ACMs observed during the 2024 reinspection. The 3-year reinspection was conducted on April 16<sup>th</sup> and 17<sup>th</sup>, 2024, by Michael McCarter, an EPA accredited and Massachusetts Department of Labor Standards (MADLS) licensed Asbestos Inspector, (license number Al-001825). EFI relied upon the 2020 3-year reinspection table of identified ACM along with visual assessment and bulk sampling of new materials for this reinspection. The original AHERA Management Plan and other subsequent records were not made available at the school or at the administrative offices for review. The recommended response actions were prepared by MADLS-licensed Asbestos Management Planner John Vaz (AP-900524).

A summary of known and assumed ACM within the James S. Daley Middle School is presented in the AHERA Summary Table in **Attachment A**. Site Plans showing buildings and locations referenced in this report are presented in **Attachment B**.

The Designated Person for the Lowell Public Schools is Rick Underwood. Rick's contact information is:

Rick Underwood
Director of Operations & Maintenance
Lowell Public Schools
155 Merrimack Street, 4<sup>th</sup> Floor
Lowell, Massachusetts 01852
978-674-4328
runderwood@lowell.k12.ma.us

### **AHERA 3-YEAR REINSPECTION**

### A. AHERA Records Review

As part of this 3-year reinspection, EFI reviewed available AHERA records for the school, in accordance with the AHERA regulation and 454 CMR 28.13(5)(f). A summary of records reviewed is provided in the table below.

Review of AHERA Documentation  James S. Daley Middle School  150 Fleming Street, Lowell, Massachusetts						
Document/Record	Present?	Comment				
Asbestos Management Plan (on hand at school and available for review)	No	No records available at the school or administrative offices for review. The Cardo ATC 2014 3-Year Reinspection and Updated Management Plan is posted on the school's web site. EFI also relied upon in-house records from the 2017 and 2020 reinspection's.				
Designated Person (Rick Underwood) Training Records	No	No records available at the school or administrative offices for review. Designated Person should receive formal designated person training or review the Designated Person Self Study Guide (available at <a href="https://www.epa.gov/sites/default/files/2015-01/documents/dp-study-guide-0.pdf">https://www.epa.gov/sites/default/files/2015-01/documents/dp-study-guide-0.pdf</a> ).				
Custodial Personnel 2-hour Awareness Training Records	No	No records available at the school or administrative offices for review.				
Annual Parental Notification Records	No	No records available at the school or administrative offices for review. Annual notification letters should be sent or posted on the school's web site, and copies kept on file with the AHERA records.				
Abatement/Response Action Records (includes abatement, special cleaning activities & small-scale short duration (SSSD) activities and associated monitoring reports and work plans)	No	No records available at the school or administrative offices for review.				
Designated Person True and Correct Statement	No	No records available at the school or administrative offices for review.				
6-month Surveillance Inspection Records	No	No records available at the school or administrative offices for review.				
Previous 3-Year Reinspection Records	No	No records available at the school or administrative offices for review.				
Asbestos Labels present (required in routine maintenance areas)	No	No labels observed. Labels should be placed immediately adjacent to ACM present in routine maintenance areas (i.e., boiler rooms, utility closets, etc.)				

### B. ACM Application Types

ACMs are divided into the following application types:

<u>Thermal system insulation (TSI)</u>: Insulation applied to mechanical, heating, and cooling systems such as pipes, boilers, flue breechings, ducts, tanks and fittings.

<u>Surfacing Materials</u>: Material that is spray-applied or trowel-applied to walls, ceilings, or structural components (i.e., plasters, acoustical finishes and fireproofing).

<u>Miscellaneous Materials</u>: All other asbestos materials, including but not limited to floor tiles and mastic, ceiling tiles, vinyl cove base and mastic, gypsum board and joint compound, and asbestos-cement board, etc.

### C. ACM Assessment Criteria

The assessment is divided into two categories - the physical assessment and the hazard potential assessment.

### **Physical Assessment**

The physical assessment is divided into the following seven categories and describes the material condition at the time of the inspection:

Physical Condition #1 - Damaged or significantly damaged thermal system ACM.

Physical Condition #2 - Damaged friable surfacing ACM.

Physical Condition #3 - Significantly damaged friable surfacing ACM.

Physical Condition #4 - Damaged or significantly damaged miscellaneous ACM.

Physical Condition #5 - ACM with potential for damage.

Physical Condition #6 - ACM with potential for significant damage.

Physical Condition #7 - Any remaining friable ACM or friable suspected ACM.

### **Hazard Assessment**

The hazard assessment is a combination of the physical assessment combined with the potential for disturbance (i.e., physical contact, vibration air movement) as follows:

Hazard Rank #1 – Good condition/Low potential for disturbance

Hazard Rank #2 – Good condition/ Moderate potential for disturbance

Hazard Rank #3 – Good condition/ High potential for disturbance

Hazard Rank #4 – Damaged condition/Low potential for disturbance

Hazard Rank #5 – Damaged condition/Moderate potential for disturbance

Hazard Rank #6 – Damaged condition/High potential for disturbance

Hazard Rank #7 – Significantly damaged condition

The following is the Assessment Criteria used during the inspection:

- 1. Homogeneous Areas (An area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in size, color and texture and was applied at approximately the same time) were quantified by location and assessed by condition. Materials are listed as friable or non-friable. Note: friable materials are materials that can be crushed and pulverized to dust by hand pressure. A general condition description for suspect materials used in this inspection is as follows:
  - a. <u>Damaged Surfacing ACM</u>: That material which has deterioration, delamination, water damage, lacks cohesion, is blistered, crumbling, gouged, marred heavily, abraded, or in any way has lost its structural integrity over more than 1% but less than 10 % of the total surface area if the damage is evenly distributed or less than 25%, if the damage is localized in one area of the homogeneous area.
  - b. <u>Significantly Damaged ACM</u>: That material which has deterioration, delamination, water damage, lacks cohesion, is blistered, crumbling, gouged, marred heavily, abraded, or in any way has lost its structural integrity over at least 10% of the surface area if the damage is evenly distributed or at least 25% if the damaged is localized.
  - c. <u>Good Condition ACM</u>: ACM with no visible damage or deterioration in less than one percent of the material and/or coverings.
  - d. ACM with potential for damage: Pertains to circumstances in which:
    - i. Friable ACM is in an area regularly used by building occupants, including maintenance workers, currently in intact (good) condition.
    - ii. There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated or delaminated due to factors such as vibration, air erosion, water damage, changes in building use, changes in O&M practices, changes in occupancy or recurrent damage.

Note: All ACM in good condition is still considered to have a potential for damage, and in certain instances, has the potential for significant damage.

- e. ACM with potential for significant damage: Pertains to circumstances in which:
  - i. Friable ACM is in an area regularly used by building occupants, including maintenance personnel.
  - ii. Indications show that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as vibration, air erosion, water damage, changes in building use, changes in O&M practices, changes in occupancy or re-occurring damage.
  - iii. The material is subject to major or continuing disturbance, due to factors including, but not limited to, accessibility or under certain circumstances, vibration or air erosion.

### D. Response Actions – General Recommendations

Specific response actions for each known and assumed ACM located at the James S. Daley Middle School are in **Attachment A**. The following are general recommendations for response actions associated with managing ACMs at the school.

- Damaged materials in the school should be repaired, if feasible, or removed to maintain compliance with the AHERA regulation. Damaged ACMs of any quantity listed in the report should be repaired or removed by a Massachusetts licensed Asbestos Contractor following all applicable regulations, in accordance with a work plan design, and final clearance air testing performed in accordance with the AHERA regulations. It is the policy of the Lowell Public Schools to use licensed Asbestos Contractors for all response action work.
- 2. The AHERA regulation states that the response actions chosen for other than small scale/short duration repairs (less than 3 square or linear feet), must be designed and conducted by persons accredited to design and conduct response actions. MADLS Regulation 454 CMR 28.00 requires the services of licensed Project Designers who meet the requirements set forth in 454 CMR 28.00, as well as Massachusetts licensed Asbestos Contractors.
- 3. Damaged ACMs that involve small scale/short duration repairs can only be conducted by 16-hour asbestos-trained personnel or by a licensed Asbestos Contractor. EFI understands that small scale/ short duration projects will not be performed by in house personnel, and that all work will be conducted by an outside licensed Asbestos Contractor.
- 4. Each known and assumed ACM should be monitored for any changes in condition during the sixmonth periodic surveillance, or more frequently.
- 5. If known or suspect ACMs are to be impacted by planned renovation or demolition activities, the ACM must be removed by a Massachusetts licensed Asbestos Contractor. Note that AHERA inspections do not meet the EPA NESHAP and Commonwealth of Massachusetts Department of Environmental Protection (MADEP) requirements for a comprehensive pre-renovation or demolition survey. Prior to any planned renovation or demolition project, all renovation/demolition areas must be thoroughly surveyed to meet the requirements of EPA NESHAP and MADEP 310 CMR 7.15(4) Survey Requirements. LEA Designated Persons should make sure that pre-renovation/demolition surveys are performed in each instance that ACM may be disturbed.

### E. AHERA Licensing & Training Documentation

The AHERA 3-year Reinspection report for the James S. Daley Middle School was performed by the following individuals who have received appropriate training and who are MADLS licensed personnel:

Michael McCarter

Senior Project Manager

MA Asbestos Inspector # AI 001825

Meelrael M Carter

John Vaz

Senior Project Manager

MA Asbestos Management Planner #AP 900524

### F. Asbestos Bulk Sampling

Asbestos bulk sampling of suspect ACM was performed for various suspect ACMs not previously identified as ACM in portions of the building included in the AHERA program. The bulk sampling was performed by USEPA-accredited, and MADLS licensed Asbestos Inspector Michael McCarter. A total of 130 bulk samples of suspect ACMs were collected and transported under chain of custody protocol to EMSL Analytical, Inc., of Woburn, Massachusetts, a Massachusetts-licensed laboratory. EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis, which is administered by the National Institute of Standards and Testing (NIST).

Samples were analyzed with a standard 5-day turnaround time using polarized light microscopy (PLM) in accordance with United States Environmental Protection Agency (USEPA) Method 600/R-93/116. The PLM/DS analytical method is modeled after 40 CFR Part 763, Subpart F, Attachment A: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples." MADEP asbestos regulations define an ACM as any material containing greater than or equal to one percent asbestos. The findings of this report are based upon observations of accessible materials and the analysis of representative bulk samples collected. **Attachment C** contains site plans indicating locations of samples collected and analyzed as part of this reinspection. A copy of the asbestos laboratory reports is presented in **Attachment D**.

Bulk samples representing individual homogenous areas of suspect ACM, (materials that are determined to be uniform in color and texture and installed in the same construction period) were collected in a randomly distributed manner, in accordance with the EPA sampling protocol outlined in 40 CFR 763.

The following suspect ACMs sampled by EFI during the 2024 reinspection were reported by EMSL as containing <u>no detectable concentration of asbestos:</u>

#### Summary of Non-ACMs per 2024 3-Year Reinspection

Material Description	Location(s) Sampled		
Gypsum board ceiling	Lower Level – Boiler Room		
Joint compound	Lower Level – Boiler Room		
Red caulk on exhaust duct	Lower Level – Boiler Room		
Gray HVAC duct sealant	Lower Level – Boiler Room		
HVAC flex connector	Lower Level – Boiler Room, Lower Level – Emergency Generator Room		
Interior metal framed door window glazing compound	Lower Level – Boiler Room, 1 <sup>st</sup> Floor – Main Office		
Emergency generator exhaust insulation	Lower Level – Emergency Generator Room, Lower Level – WTR Boost Pump, Lower Level – Hall at WTR Boost Pump		
Sprinkler pipe thread sealant	Lower Level – WTR Boost Pump, 1 <sup>st</sup> Floor – Main Office		
4" vinyl cove base adhesive	Lower Level – WTR Boost Pump, 2mnd Floor – Room 215		

Material Description	Location(s) Sampled		
2' x 4' small fissured ceiling tile	Lower Level – Storage @ WTR Boost Pump, 1 <sup>st</sup> Floor – Room 101		
2' x 4' large fissured ceiling tile	Lower Level – Storage @ WTR Boost Pump, 2 <sup>nd</sup> Floor – Teachers		
Textured plaster ceiling on cement board	Lower Level – Boys, Lower Level - Girls		
Cement board ceiling	Lower Level – Boys, Lower Level - Girls		
Tan with brown terrazzo	Lower Level – Boys, 1 <sup>st</sup> Floor – Stair #6		
Brown terrazzo	Lower Level – Boys, 1 <sup>st</sup> Floor – Stair #6		
Plaster finish on concrete block walls	Lower Level – Stair #2, 1 <sup>st</sup> Floor – Stair #2, 1 <sup>st</sup> Floor – Stair #1, 1 <sup>st</sup> Floor – Stair #3, 1 <sup>st</sup> Floor – Stair #7		
2' x 2' glacier ceiling tile	Lower Level – Hall, 2 <sup>nd</sup> Floor – Stair #2		
2' x 2' fissure ceiling tile	Lower Level – Hall, 2 <sup>nd</sup> Floor – Hall		
12" x 12" gray floor tile	Lower Level – Hall, Lower Level - Hall at Room 10		
12" x 12" gray floor tile, mastic, black	Lower Level – Hall, Lower Level- Hall at Room 10		
Gypsum board	Lower Level – Elevator Machine Room, 1 <sup>st</sup> Floor – Room 111		
Joint compound	Lower Level – Elevator Machine Room, 1 <sup>st</sup> Floor – Room 111		
Wood fiber board ceiling	Lower Level – Emergency Generator Room		
2' x 4' flat white ceiling tile	Lower Level - Kitchen		
Kitchen exhaust hood insulation	Lower Level - Kitchen		
12" x 12" light gray floor tile	Lower Level – Cafeteria, 1 <sup>st</sup> Floor - Room 101		
12" x 12" pink floor tile	Lower Level – Cafeteria, 1 <sup>st</sup> Floor - Room 101		
12" x 12" blue floor tile	Lower Level – Cafeteria, 1 <sup>st</sup> Floor - Room 101		
Mastic associated with 12" x 12" light gray/pink/blue floor tile mastic, black	Lower Level – Cafeteria, 1 <sup>st</sup> Floor - Room 101		
12" x 12" gray mottled floor tile	Lower Level – Room 9, 1 <sup>st</sup> Floor - Room 100		
12" x 12" gray mottled floor tile, mastic, black	Lower Level – Room 9, 1 <sup>st</sup> Floor - Room 100		
Stainless steel sink undercoat, gray	Lower Level – Room 9, Lower level Room 12		
Interior window frame caulk, white	Lower Level – Shop Annex, 1st Floor - Room 101		
Plaster finish coat	1 <sup>st</sup> Floor – Hall at Room 101, 1 <sup>st</sup> Floor- Room 101, 1 <sup>st</sup> Floor - Room 119, 1 <sup>st</sup> Floor - Room 129, 2 <sup>nd</sup> Floor – Room 203, 2 <sup>nd</sup> Floor – Room 220, 2 <sup>nd</sup> Floor – Room 230		
Plaster base coat	1 <sup>st</sup> Floor – Hall at Room 101, 1 <sup>st</sup> Floor- Room 101, 1 <sup>st</sup> Floor - Room 119, 1 <sup>st</sup> Floor - Room 129, 2 <sup>nd</sup> Floor – Room 203, 2 <sup>nd</sup> Floor – Room 220, 2 <sup>nd</sup> Floor – Room 230		
6" vinyl cove base adhesive	1 <sup>st</sup> Floor – Room 101, 1 <sup>st</sup> Floor – Office at Room 108		
Carpet adhesive on concrete	1 <sup>st</sup> Floor – Teachers Room, 1 <sup>st</sup> Floor – Library		
2' x 4' ceiling tile (2' x 2' pattern)	1 <sup>st</sup> Floor –Room 115, 1 <sup>st</sup> Floor – Library		
Stainless steel sink undercoat, black	1 <sup>st</sup> Floor –Room 117, 1 <sup>st</sup> Floor – Room 125		
2" red ceramic floor tile grout	1 <sup>st</sup> Floor – Faculty Rest Room at Sprinkler Room, 1 <sup>st</sup> Floor – Nurse Bathroom		

Material Description	Location(s) Sampled
Textured ceiling finish (Swirl pattern) on	1 <sup>st</sup> Floor – Room 126 Closet
gypsum board	
1' x 1' ceiling tile	1 <sup>st</sup> Floor - Main Entrance
Ceramic wall tile grout	1 <sup>st</sup> Floor – Nurse Bathroom
Black lab bench top	1 <sup>st</sup> Floor – Room 130, 1 <sup>st</sup> Floor – Room 132
Red sheet flooring	1 <sup>st</sup> Floor – Room 127, 1 <sup>st</sup> Floor – Room 129
Red sheet flooring mastic, gray/black	1 <sup>st</sup> Floor – Room 127, 1 <sup>st</sup> Floor – Room 129
Dark red sheet flooring on raised platform	1 <sup>st</sup> Floor – Room 127
Dark red sheet flooring on raised platform,	1 <sup>st</sup> Floor – Room 127
mastic, tan	
Brown linoleum on windowsill	1 <sup>st</sup> Floor – Room 127, 1 <sup>st</sup> Floor – Room 129
Brown linoleum on windowsill, mastic, brown	1 <sup>st</sup> Floor – Room 127, 1 <sup>st</sup> Floor – Room 129
Exterior entry door caulk, gray	1 <sup>st</sup> Floor – at Stair 7, 1 <sup>st</sup> Floor – at Stair 10
Exterior HVAC uninvent louver caulk, white	1 <sup>st</sup> Floor – at Room 112, Lower Level – at Room 10
Exterior overhang stucco	1 <sup>st</sup> Floor – Main Entrance, 1 <sup>st</sup> Floor – at Stair 7

### G. ACM Hazard Assessment & Recommended Response Actions

Accessible locations were inspected and assessed to determine the presence and condition of known and assumed ACM. A Summary Table of known and assumed ACMs present at the school, the physical and hazard assessments, and the recommended response action for each ACM, is presented in **Attachment A.** It should be noted that EFI did not conduct destructive evaluations of the school building to identify suspect ACM. Per USEPA NESHAP and MADEP asbestos regulations, a thorough "path of construction" survey should be conducted prior to any renovation or repair activities that may impact suspect ACM, regardless of the date of installation.

### H. Cost Estimate and Schedule for Recommended Response Actions

The confirmed and assumed ACMs outlined in the summary table in **Attachment A** that were in good condition at the time of the reinspection must be maintained in place in accordance with the Operations and Maintenance Plan. Estimated costs associated with managing known and assumed ACMs at the school are summarized below.

Cost Estimate of AHERA Considerations James S. Daley Middle School 150 Fleming Street, Lowell, Massachusetts					
Training Costs					
Item	Approximate Cost				
2-hour asbestos awareness training (New Hires, within 60 days of hire)	\$500/person				
Designated Person Training	\$250				
Maintenance Costs					
Item	<b>Approximate Cost</b>				
Asbestos labeling (Place/maintain labels adjacent to ACM in routine maintenance areas)	\$500				

6-month surveillance inspections (Per schedule below)	\$500/event				
3-year reinspection (Per schedule below)	\$2,000				
Response Action Costs					
Item	Approximate Cost				
Annually notify occupants regarding ACM materials noted in the Summary Table of Identified and Assumed ACMs.	\$200				

A proposed schedule of events between this 3-Year reinspection and the 2027 3-Year reinspection is provided for your use:

Schedule of AHERA-Related Actions James S. Daley Middle School 150 Fleming Street, Lowell, Massachusetts						
Event	Completion Date					
Annually notify occupants regarding ACM 2' x 2"	September 1, 2024					
cement pegboard wall panels as recommended in						
the Summary Table of Identified and Assumed						
ACMs.						
6 Month Surveillance Inspection	October 17, 2024					
6 Month Surveillance Inspection	April 17, 2025					
Annual Parental Notification Letter	September 1, 2025					
6 Month Surveillance Inspection	October 17, 2025					
6 Month Surveillance Inspection	April 17, 2026					
Annual Parental Notification Letter	September 1, 2026					
6 Month Surveillance Inspection	October 17, 2026					
3 Year Reinspection	April 17, 2027					

# ATTACHMENT A AHERA SUMMARY TABLE

# AHERA 3 Year Re-Inspection Summary Table

## James S. Daley Middle School

# Summary Table of Identified and Assumed Asbestos-Containing Building Materials

150 Fleming Street, Lowell, MA

Dates of Inspection: April 16 and 17, 2024

Material Description	Location	Quantity	Friability (F/NF)	Sample Results	Assessment Category	Condition	Response Actions/ Notes	Recommended Completion Date
Green/White Sheet Flooring and Associated Adhesive	1 <sup>st</sup> Floor – Assembly Area	2,600 SF	NF	Positive per Management Plan records	5	Good condition overall with minor cracking. Tile is intact.	Good condition overall with minor cracking. Monitor to determine condition does not worsen. Manage in place in accordance with the Asbestos O&M Program or replace with new non-ACM flooring. Sheet flooring should be maintained in accordance with EPA and OSHA guidelines. Strip floors when wet using low abrasive pads and low speed buffers (175- 300 rpm), and regularly clean and maintain flooring with wax coating to maximize longevity.	
Green/White Sheet Flooring Adhesive	1 <sup>st</sup> Floor – Assembly Area	2,600 SF	NF	Positive per Management Plan records	5	N/A, material not accessible for viewing.	Overlying floor tile is in good condition and mastic is not visible. Manage in place in accordance with the Asbestos O&M Program	
Flex Duct Connector	Basement – Boiler Room	2 Units	NF	Assumed Positive per Management Plan records.  Sampled in 2024. No asbestos detected	-	-		
Wood Fire Door	Hallways Throughout Building	79 Units	NF	Assumed Positive per Management Plan records	5	Doors in Good Condition (interior linings not accessible for inspection)	Manage in place in accordance with the Asbestos O&M Program. Prior to disturbance, inspect the doors for suspect ACM lining insulation and collect bulk samples to determine asbestos content.	
Metal Fire Doors	Throughout Basement Hallways and 2 <sup>nd</sup> Floor Roof Access	37 Units	NF	Assumed Positive per Management Plan records	5	Doors in Good Condition (interior linings not accessible for inspection)	Manage in place in accordance with the Asbestos O&M Program. Prior to disturbance, inspect the doors for suspect ACM lining insulation and collect bulk samples to determine asbestos content.	

# AHERA 3 Year Re-Inspection Summary Table

## James S. Daley Middle School

# Summary Table of Identified and Assumed Asbestos-Containing Building Materials

150 Fleming Street, Lowell, MA

Dates of Inspection: April 16 and 17, 2024

Material Description	Location	Quantity	Friability (F/NF)	Sample Results	Assessment Category	Condition	Response Actions/ Notes	Recommended Completion Date
Flex Duct Connector	2 <sup>nd</sup> Floor – Mechanical Room	2 Units	NF	Assumed Positive per Management Plan records.  Sampled in 2024. No asbestos	-	-		
Flex Duct Connector	Basement – Art Supply Room	2 Units	NF	detected Assumed Positive per Management Plan records.	-	-		
				Sampled in 2024. No asbestos detected				
Flex Duct Connector	Basement – Emergency Generator Room	1 Units	NF	Assumed Positive per Management Plan records.  Sampled in 2024.	-	-		
				No asbestos detected				
Pipe Insulation	Basement – Emergency Generator Room	30 LF	NF	Assumed Positive per Management Plan records.  Sampled in 2024.	-	-		
				No asbestos detected				
2' x 2' Cement Pegboard Wall Panels (material added per 2024 reinspection)	First Floor - Rooms 127 and 129	800 SF	NF	25% Chrysotile	5	Good	Annually notify occupants that 2' x 2' cement pegboard wall panels are ACM and should not be disturbed by hanging items from the ACM or other activities. Manage in place in accordance with the Asbestos O&M Program. Routine inspections of ACM for physical damages due to occupancy or other factors can be performed more frequently such as every three months.	September 1, 2024
Exterior Window Caulk, White	Exterior Windows	5,000 LF	NF	25% Chrysotile	5	Good	Manage in place in accordance with the Asbestos O&M Program.	

# AHERA 3 Year Re-Inspection Summary Table James S. Daley Middle School Summary Table of Identified and Assumed Asbestos-Containing Building Materials

150 Fleming Street, Lowell, MA Dates of Inspection: April 16 and 17, 2024

LF = Linear Feet

SF = Square Feet

NA = Not Applicable

For all recommended response actions other than administrative activities, the work should be conducted by a Massachusetts licensed Asbestos Contractor and a work plan for the specific repair or removal activity should be prepared by a Massachusetts licensed Asbestos Designer.

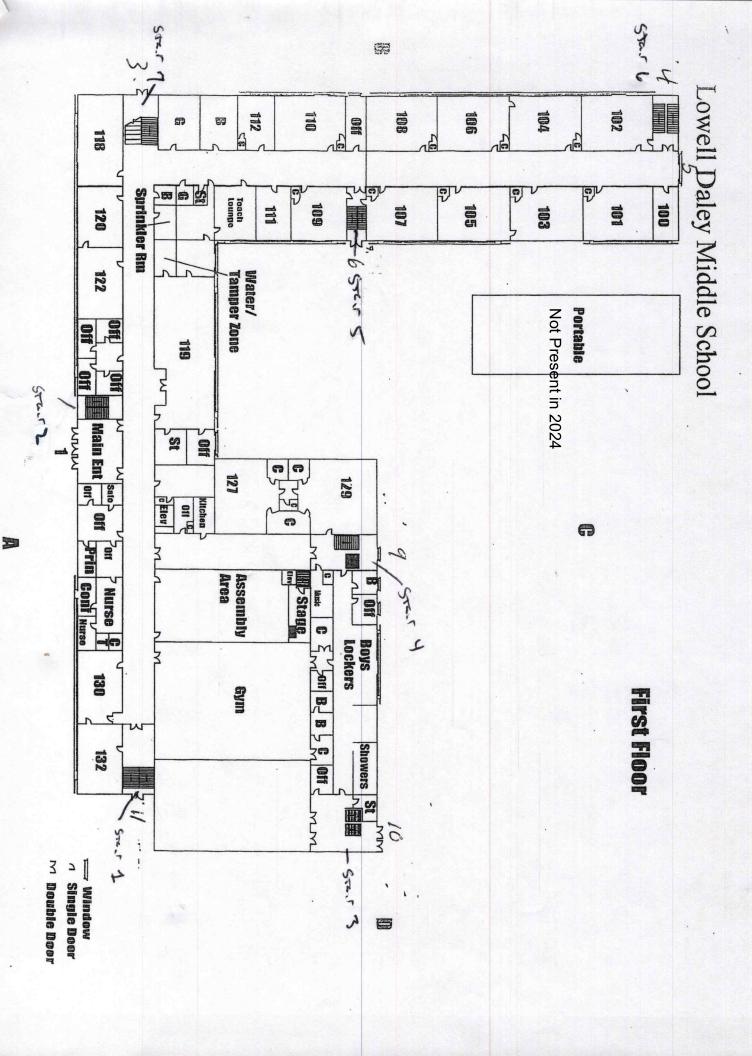
Physical Assessment Category
1 – Damaged or Significantly Damaged Thermal System ACM
2 – Damaged Friable Surfacing ACM
3 – Significantly Damaged Surfacing ACM
4 – Damaged or Significantly Damaged Friable Miscellaneous ACM
5 – ACM with Potential for Damage
6 – ACM with Potential for Significant Damage
7 – Any Remaining friable ACM or friable suspect ACM

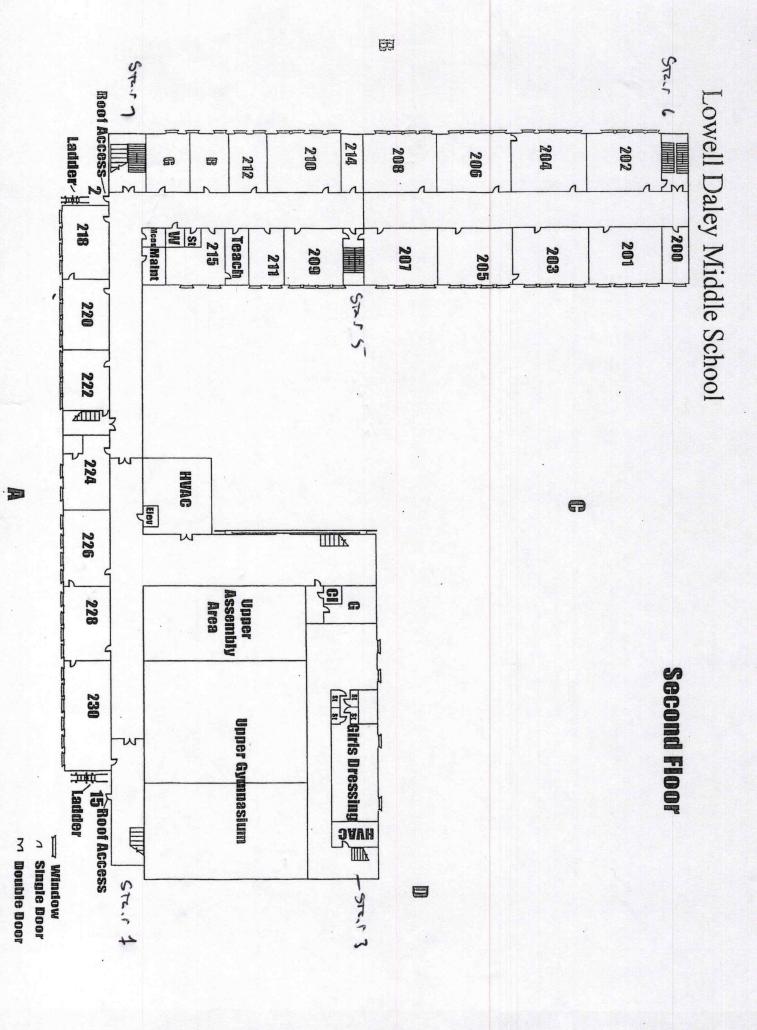
**ATTACHMENT B** 

**SITE PLANS** 

21:25

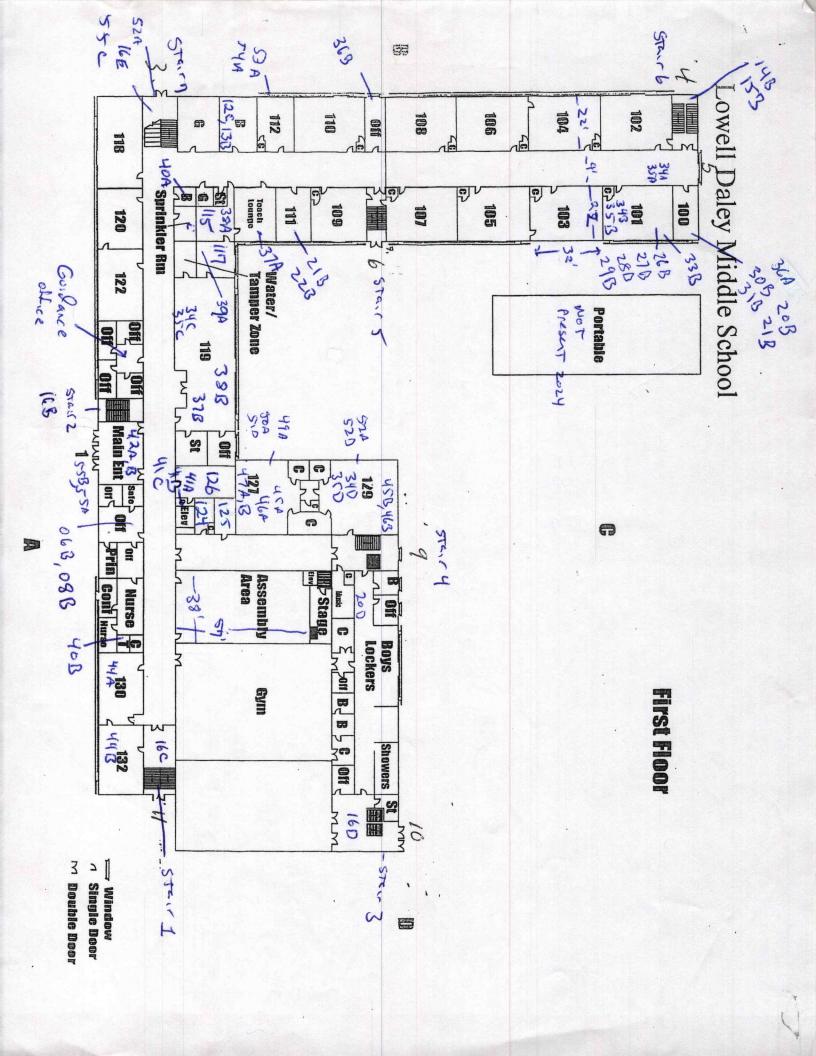
Touble Boor

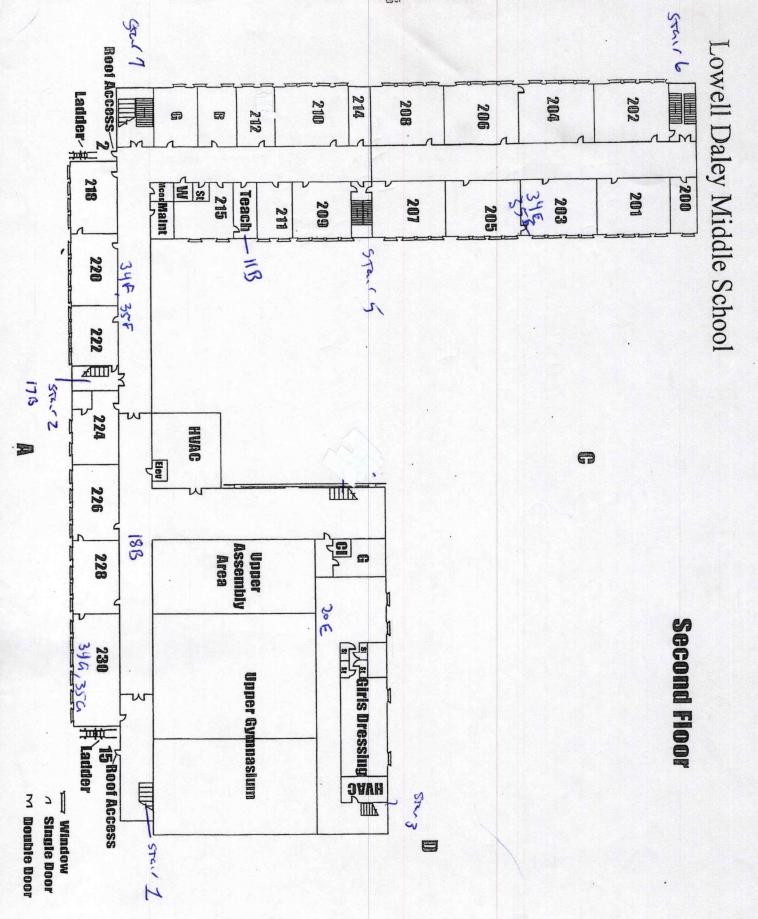




## ATTACHMENT C

**2024 REINSPECTION ASBESTOS BULK SAMPLE LOCATION PLANS** 





## ATTACHMENT D

**2024 REINSPECTION ASBESTOS BULK SAMPLE REPORTS** 



Attention: Michael McCarter

Suite 6

EFI Global, Inc.

155 West Street

Wilmington, MA 01887

EMSL Order: 132402262 Customer ID: EAFI66

Customer PO: Project ID:

Phone: (978) 688-3736

Fax: (978) 688-5494

Received Date: 04/18/2024 11:25 AM

**Analysis Date:** 04/25/2024

**Collected Date:** 

Project: 014.07795 - Daley Middle School; Lowell, MA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
D1A 132402262-0001	Lower Level - Boiler Room - Gypsum Board Ceiling	Brown/Gray Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
01B 132402262-0002	Lower Level - Boiler Room - Gypsum Board Ceiling	Brown/Gray Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
)2A	Lower Level - Boiler Room - Joint	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0003	Compound	Homogeneous			
)2B 132402262-0004	Lower Level - Boiler Room - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02C 132402262-0005	Lower Level - Boiler Room - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A 132402262-0006	Lower Level - Boiler Room - Red Caulk on Exhaust Duct	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B 132402262-0007	Lower Level - Boiler Room - Red Caulk on	Red Non-Fibrous		100% Non-fibrous (Other)	None Detected
04A 132402262-0008	Exhaust Duct  Lower Level - Boiler  Room - Gray HVAC  Duct Sealant	Homogeneous  Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B 132402262-0009	Lower Level - Boiler Room - Gray HVAC Duct Sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A 132402262-0010	Lower Level - Boiler Room - HVAC Flex Connector	White/Silver Fibrous Homogeneous	65% Glass	35% Non-fibrous (Other)	None Detected
05B 132402262-0011	Lower Level - Emergency Generator Room - HVAC Flex Connector	White/Silver Fibrous Homogeneous	65% Glass	35% Non-fibrous (Other)	None Detected
06A	Lower Level - Boiler Room - Exterior Metal	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0012	Framed Door Window Glazing Compound	Homogeneous			
06B	1st Floor Main Office - Exterior Metal Framed	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0013	Door Window Glazing Compound	Homogeneous			
07A 132402262-0014	Lower Level - Emerg. Generator Room - Emergency Generator Exhaust Insulation	Gray Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected



Customer PO: Project ID:

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbesto		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
07B 132402262-0015	Lower Level - WTR Boost Pump - Emergency Generator Exhaust Insulation	Gray Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected
07C 132402262-0016	1st Floor Main Office - Emergency Generator Exhaust Insulation	Gray Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected
08A	Lower Level - WTR Boost Pump -	Gray Non-Fibrous	2% Fibrous (Other)	98% Non-fibrous (Other)	None Detected
132402262-0017	Sprinkler Pipe Sealant	Homogeneous			
08B	1st Floor - Room 101 - Sprinkler Pipe	Gray Non-Fibrous	2% Fibrous (Other)	98% Non-fibrous (Other)	None Detected
132402262-0018	Sealant	Homogeneous		4000/ Non-Elman (Otton)	Non- Bataria
09A 132402262-0019	Lower Level - Storage at WTR Boost Pump - 4" Vinyl Cove Base Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B	2nd Floor - Room 215 - 4" Vinyl Cove Base	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0020	Adhesive Storage	Homogeneous Gray/White	50% Cellulose	15% Non fibrage (Other)	None Detected
10A 132402262-0021	Lower Level - Storage at WTR Boost Pump - 2x4 Small Fissured	Gray/White Fibrous Homogeneous	35% Min. Wool	15% Non-fibrous (Other)	None Detected
10P	CG Tile	Crov/M/hito	500/ Callula	150/ Non fibrage (Other)	None Detacta
10B 132402262-0022	1st Floor - Room 101 - 2x4 Small Fissured CG Tile	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
11A	Lower Level - Storage	Gray/White	60% Cellulose	15% Non-fibrous (Other)	None Detected
132402262-0023	at WTR Boost Pump - 2x4 Large Fissured CG Tile	Fibrous Homogeneous	25% Min. Wool		
11B	1st Floor - Teachers - 2x4 Large Fissured	Gray/White Fibrous	60% Cellulose 25% Min. Wool	15% Non-fibrous (Other)	None Detected
132402262-0024	CG Tile	Homogeneous		4000(1) 51 (01)	
12A 132402262-0025	Lower Level - Boys - Textured Master Ceiling on Cement Board	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12B	Lower Level - Girls - Textured Master	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0026	Ceiling on Cement Board	Homogeneous			
12C	1st Floor - Boys at Stair - Textured	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0027	Master Ceiling on Cement Board	Homogeneous			
12D	1st Floor - Boys Locker Room -	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0028	Textured Master Ceiling on Cement Board	Homogeneous			
12E	1st Floor - Girls Locker Room -	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0029	Textured Master Ceiling on Cement Board	Homogeneous			



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## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	stos .	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3A	Lower Level - Boys - Cement Board	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0030		Homogeneous			
3B	1st Floor - Boys at Stair - Cement Board	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0031		Homogeneous			
4A	Lower Level - Boys Room - Tan w. Brown	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0032	Terrazzo	Homogeneous			
4B	1st Floor - Stair 6 - Tan w. Brown Terrazzo	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0033		Homogeneous			
5A	Lower Level - Boys Room - Brown	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0034	Terrazzo	Homogeneous			
5B	1st Floor - Stair 6 - Brown Terrazzo	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0035		Homogeneous			
16A	Lower Level - Stair 2 - Plaster Finish Coat on	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0036	Concrete, Black	Homogeneous			
16B	1st Floor - Stair 2 - Plaster Finish Coat on	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0037	Concrete, Black	Homogeneous			
6C	1st Floor - Stair 1 - Plaster Finish Coat on	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0038	Concrete, Black	Homogeneous			
6D	1st Floor - Stair 3 - Plaster Finish Coat on	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0039	Concrete, Black	Homogeneous			
6E	1st Floor - Stair 7 - Plaster Finish Coat on	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0040	Concrete, Black	Homogeneous			
7A	Lower Level - Hall - 2x2 Glacier CG Tile	Gray/White Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0041		Homogeneous			
17B	1st Floor - Stair 2 - 2x2 Glacier CG Tile	Gray/White Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0042		Homogeneous	F001 C :	450/ Nr. 51 - 15 - 1	
18A	Lower Level - Hall - 2x2 Fissured CG Tile	Gray/White Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0043	0.151	Homogeneous	500/ 0 " :	450/ N	N. Frida
8B	2nd Floor - Hall - 2x2 Fissured CG Tile	Gray/White Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0044		Homogeneous		1000/ 11	N =
9A	Lower Level - Hall - 12x12 Gray Floor Tile	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0045		Homogeneous			
9B	Lower Level - Hall at Room 10 - 12x12	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0046	Gray Floor Tile	Homogeneous			
20A	Lower Level - Hall - 12x12 Gray Floor Tile,	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0047	Black Mastic	Homogeneous			
20B	Lower Level - Hall at Room 10 - 12x12	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0048	Gray Floor Tile, Black Mastic	Homogeneous			



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			Non-Asbes	<u>stos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
21A	Lower Level Elevator Machine Room -	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
32402262-0049 1B	Gypsum Board  1st Floor - Room 111	Homogeneous  Brown/White	15% Cellulose	85% Non-fibrous (Other)	None Detected
32402262-0050	- Gypsum Board	Fibrous Homogeneous	15% Cellulose	65% Nort-Indious (Other)	None Detected
2A	Lower Level Elevator	White		100% Non-fibrous (Other)	None Detected
32402262-0051	Machine Room - Joint Compound	Non-Fibrous Homogeneous		100% Non-librous (Guler)	None Beleated
2B	1st Floor - Room 111 - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0052	- Joint Compound	Homogeneous			
3A	Lower Level - Emerg. Generator Room -	Tan/White Non-Fibrous	50% Cellulose	50% Non-fibrous (Other)	None Detected
32402262-0053	Wood Fiber Board Ceiling	Homogeneous			
3B	Lower Level - Emerg. Generator Room -	Tan/White Fibrous	50% Cellulose	50% Non-fibrous (Other)	None Detected
32402262-0054	Wood Fiber Board Ceiling	Homogeneous			
4A	Lower Level - Kitchen - 2x4 Flat White	Gray Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0055	Ceiling Tile	Homogeneous			
4B	Lower Level - Kitchen - 2x4 Flat White	Gray Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0056	Ceiling Tile	Homogeneous			
5A	Lower Level - Kitchen - Kitchen Exhaust	White Non-Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
32402262-0057	Hood Insulation	Homogeneous	200/ 0-11-1	000/ Now Shares (Others)	Nana Datastad
5B 32402262-0058	Lower Level - Kitchen - Kitchen Exhaust Hood Insulation	White Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
5C	Lower Level - Kitchen	Homogeneous White	20% Cellulose	90% Non fibrous (Other)	None Detected
32402262-0059	- Kitchen Exhaust Hood Insulation	Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
6A	Lower Level -	Gray		100% Non-fibrous (Other)	None Detected
	Cafeteria - 12x12	Non-Fibrous		100 % Non-librous (Other)	None Detected
32402262-0060	Light Gray Floor Tile	Homogeneous			
6B 32402262-0061	1st Floor - Room 101 - 12x12 Light Gray	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
	Floor Tile	Homogeneous		4000/ Nov. Element (Othern)	Nana Data ata d
7A	Lower Level - Cafeteria - 12x12 Pink	Pink Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0062	Floor Tile	Homogeneous		4000/ No. 51 (21)	Maria Barana
7B	1st Floor - Room 101 - 12x12 Pink Floor	Pink Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0063	Tile	Homogeneous		1000/ Non Share (Others)	None Data da
8A	Lower Level - Cafeteria - 12x12	Blue Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0064	Blue Floor Tile	Homogeneous		1000/ Non 5h (Oth)	None Datastad
88B	1st Floor - Room 101 - 12x12 Blue Floor	Blue Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0065	Tile	Homogeneous			
29A	Lower Level - Cafeteria - Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0066	assoc. w. #26, 27, 28	Homogeneous			



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## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
29B	1st Floor - Room 101 - Mastic assoc. w.	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0067	#26, 27, 28	Homogeneous			
32402262-0068	Lower Level - Room 9 - 12x12 Gray Mottled Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
		-		4000/ Nov. 51 (Other)	N B. t t. I
30B 32402262-0069	1st Floor - Room 100 - 12x12 Gray Mottled Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
		-		1000/ Non fibrage (Other)	None Detected
1A 32402262-0070	Lower Level - Room 9 - 12x12 Gray Mottled Floor Tile. Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1B	1st Floor - Room 100	Black		100% Non-fibrous (Other)	None Detected
32402262-0071	- 12x12 Gray Mottled Floor Tile, Mastic	Non-Fibrous Homogeneous		100% Noti-fibrous (Other)	None Detected
2A	Lower Level - Room 9	Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
32402262-0072	- Stainless Steel Sink Undercoat, Gray	Non-Fibrous Homogeneous	10 % Centilose	30 % Non-librous (Other)	None Detected
2B	Lower Level - Room	Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
32402262-0073	12 - Stainless Steel Sink Undercoat, Gray	Non-Fibrous Homogeneous	.070 001111000	00%	20.0000
3A	Lower Level - Shop	Beige		100% Non-fibrous (Other)	None Detected
32402262-0074	Annex - Interior Window Frame Caulk,	Non-Fibrous Homogeneous			
	White				
3B	1st Floor - Room 101 - Interior Window	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0075	Frame Caulk, White	Homogeneous			
4A	1st Floor - Hall at Room 101 - Plaster	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0076	Finish Coat	Homogeneous			
4B	1st Floor - Room 101 - Plaster Finish Coat	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0077		Homogeneous			
4C 32402262-0078	1st Floor - Room 119 - Plaster Finish Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	4 - 1 - El	-		4000/ Nov. 51 (Other)	N B. t t. I
4D 32402262-0079	1st Floor - Room 129 - Plaster Finish Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4E	2nd Floor - Room 203	White		100% Non-fibrous (Other)	None Detected
<b></b> -	- Plaster Finish Coat	Non-Fibrous		100 /0 14011-11D1003 (Ott181)	MONE DETECTED
32402262-0080		Homogeneous			
4F	2nd Floor - Hall at 220 - Plaster Finish Coat	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0081		Homogeneous			
4G	2nd Floor - Room 230 - Plaster Finish Coat	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0082		Homogeneous			
5A	1st Floor- Hall at Room 101 - Plaster	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0083	Base Coat	Homogeneous			
5B	1st Floor - Room 101 - Plaster Base Coat	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0084		Homogeneous			
35C	1st Floor - Room 119 - Plaster Base Coat	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0085		Homogeneous			



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			Non-Asbe	estos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
35D 132402262-0086	1st Floor - Room 129 - Plaster Base Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35E 132402262-0087	2nd Floor - Room 203 - Plaster Base Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35F 132402262-0088	2nd Floor - Hall at Room 220 - Plaster Base Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35G 132402262-0089	2nd Floor - Room 230 - Plaster Base Coat	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
36A 132402262-0090	1st Floor - Room 101 - 6" Vinyl Cove Base Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36B 132402262-0091	1st Floor - Office at Room 108 - 6" Vinyl Cove Base Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37A 132402262-0092	1st Floor - Teachers Lounge - Carpet Adhesive on Concrete	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37B 132402262-0093	1st Floor - Library - Carpet Adhesive on Concrete	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38A	1st Floor - Room 115 - 2x4 Ceiling Tile, 2x2'	Gray/White Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
132402262-0094 38B 132402262-0095	Pattern  1st Floor - Library - 2x4 Ceiling Tile, 2x2' Pattern	Homogeneous  Gray/White Fibrous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
39A 132402262-0096	1st Floor - Room 117 - Stainless Steel Sink Undercoat, Black	Homogeneous  Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
39B 132402262-0097	1st Floor - Room 125 - Stainless Steel Sink Undercoat, Black	Homogeneous  Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
40A 132402262-0098	1st Floor - Faculty Restroom at Sprinkler Room - 2" Red Ceramic Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
40B 132402262-0099	1st Floor - Nurse Bathroom - 2" Red Ceramic Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41A 132402262-0100	1st Floor - Room 126 Closet - Textured Ceiling Finish, Swirl Pattern on Gypsum Board	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41B 132402262-0101	1st Floor - Room 126 Closet - Textured Ceiling Finish, Swirl Pattern on Gypsum Board	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	<u>stos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
.1C 32402262-0102	1st Floor - Room 126 Closet - Textured Ceiling Finish, Swirl Pattern on Gypsum Board	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2A	1st Floor - Main Entry - 1x1 Ceiling Tile	Gray/White Fibrous	45% Cellulose 40% Min. Wool	15% Non-fibrous (Other)	None Detected
32402262-0103		Homogeneous			
12B 132402262-0104	1st Floor - Main Entry - 1x1 Ceiling Tile	Gray/White Fibrous Homogeneous	45% Cellulose 40% Min. Wool	15% Non-fibrous (Other)	None Detected
13A	1st Floor - Nurse Bathroom - Ceramic	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402262-0105 13B 132402262-0106	Wall Tile Grout  1st Floor - Nurse  Bathroom - Ceramic  Wall Tile Grout	Homogeneous  Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A 132402262-0107	1st Floor - Room 130 - Black Lab Bench Top	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14B	1st Floor - Room 132 - Black Lab Bench	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0108 -5A	Top  1st Floor - Room 127	Homogeneous  Brown		100% Non-fibrous (Other)	None Detected
32402262-0109	- Red Sheet Flooring	Non-Fibrous Homogeneous			
32402262-0110	1st Floor - Room 129 - Red Sheet Flooring	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16A	1st Floor - Room 127 - Red Sheet Flooring,	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0111 I6B	Gray/Black Mastic  1st Floor - Room 129 - Red Sheet Flooring,	Homogeneous Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0112 17A 32402262-0113	Gray/Black Mastic  1st Floor - Room 127 - Dark Red Sheet Floor on Raised Platform	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17B 32402262-0114	1st Floor - Room 127 - Dark Red Sheet Floor on Raised Platform	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
-8A	1st Floor - Room 127 - Dark Red Sheet	Yellow Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0115 -8B	Flooring, Tan Mastic  1st Floor - Room 127 - Dark Red Sheet	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
32402262-0116	Flooring, Tan Mastic	Homogeneous			
9A	1st Floor - Room 127 - 2x2 Cement	Gray Fibrous		75% Non-fibrous (Other)	25% Chrysotile
32402262-0117 50A	Pegboard Wall Panel  1st Floor - Room 127	Homogeneous  Brown	10% Cellulose	90% Non-fibrous (Other)	None Detected
32402262-0118	- Brown Linoleum on Window Sill	Non-Fibrous Homogeneous			
50B	1st Floor - Room 129 - Brown Linoleum on	Brown Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
132402262-0119			10% Cellulose	90% Noti-fibrous (Other)	None Detect



Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

	Non-Asbestos		<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
51A 132402262-0120	1st Floor - Room 127 - Brown Linoleum on Window Sill, Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51B 132402262-0121	1st Floor - Room 129 - Brown Linoleum on Window Sill, Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52A 132402262-0122	at Stair 7 - Exterior Door Caulk, Gray	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52B 132402262-0123	at Stair 10 - Exterior Door Caulk, Gray	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53A 132402262-0124	at Room 112 - Exterior Window Caulk, White	Gray/Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
53B	at Cafeteria - Exterior Window Caulk, White				Positive Stop (Not Analyzed)
132402262-0125					
54A 132402262-0126	at Room 112 - Exterior HVAC Unit Vent Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
54B 132402262-0127	at Room 10 - Exterior HVAC Unit Vent Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
55A 132402262-0128	at Main Entrance - Exterior Overhang Stucco	Gray Non-Fibrous Homogeneous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
55B 132402262-0129	at Main Entrance - Exterior Overhang Stucco	Gray Non-Fibrous Homogeneous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
55C	at Stair 7 - Exterior Overhang Stucco	Gray Non-Fibrous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
132402262-0130		Homogeneous			

Analyst(s)	
John McCarthy (129)	

Steve Grise, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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 must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. 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, ME LB-0039



155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202

	BULK SAMPLE CI	HAIN OF CUST	ODY FORM	
Report to (Inspector Name):		Bill To:	Accounts Payable	
Company:	EFI Global, Inc.	Address:	Same	
	155 West Street	City, State, Zip:	Same	ys *
Address:	Suite 6	Telephone:	800-659-1202	
City, State, Zip:	Wilmington, MA 01887	Email:	US-EFIGIobal-BostonEn	viroPC@efiglobal.com
Inspector Cell:	978-604-7662			
	Proje	ect Information		
Project No./ Description:	014.07795 - D	aley m. 2	De Schod, Lon	ell, MA
Email Report to:	Michael.mccarter@efiglobal.com;	,		
Alternate:				
		d Turnaround Ti		
□ RUSH (6hr)	☐ 1 day (24hr)	☐ 2 day (48hr)	☐ 3 day (72hr)	🗷 5 day
	Media a	and Methodolog		
Type of Analysis:	EPA Method 600/R-93/116		Check for Positive Stop:	٨
Notes:			Date Collected:	4/16/24+4/17/
Sample ID	Type of Material		Locat	tion
014	Gypson Board Cerlina		Lower level-	Bole Reven
013		)	-	. 1
022	Jan Compan			
020	1		_	
020	7		,	
03A	Rod Could on Exhau	st Duct	_	
030	4		,	
042	Gray HUAC DUT Se	aut		`
043	, 7		1 -	~
Total Number of S	amples Submitted: 136			
	metal Micari	Sampler	s Signature WM	H
Relinquished By (C	Client): Meh uncert		Date: <u>4/nl</u> 2	
	:	X	Date:	Time:
		1 5	ON APR 1 8 2024	)
	Page 1		alhin	



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Sample ID	Type of Material	Location
USA	HUAC Flex Connector	Lower level - Doler Pm
050	1	- Emergy Course for
064	Interest Dess Window Claring	J-Boler Ron
063	1 compal	FIRST FLOOR MAN office
072	Enegercy Genevorar Exhaust	Lower Level - Emerg General
070	INSITETIA	1-WTR Boost pump
070		-Hall & UTR BOOST PUMP
081	Springler PINE Sealant	J-WTR BOOST pump
083	1.	1st floor main office
69A	4 " youy I cove Base Ashesive	Lowe level - WTA BOOST PUMP
090	1	2) plant - Rown 215
102	Zxy smill fearly the	Lowe level - STORAge @ WT
100	7	157 feest - boun 101
110	2xy large fusired of the	Lower level - Storage OWIR BO
110	3	715 Hav - Teachers
120	Textured Mister realing on	Lower level Boys
123	Cenert Board	Girls
120		1 ST flow - Boys @ STENT of
150		- Boys locked Pun
ne	V	J - Bi-15 locler per
132	Cenent Board	lover-level-Boys
130	1	15 flow - Biys @ Steir 7
(44	TON WBROWN TERRIZO	Law level Boys Don
143	1	157 Clast - Sterr 6
(SA	Brown terazzo	Lower (eve (- Bays Down
[7]	4	157 Steel - Steel 6
	,	

Project Number/Description _	614-07745	Page 7 of 6
	Daley mille school	
		REC'D APR 1 8 2024



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Sample ID	Type of Material	Location
160	Pluster Firsh Court on Conerere	Lower level - STEAR Z
163	Di-ch	157 flour - 57852
160		15-200 - Sta, Y.
160		1ST four - STAIT 3
162	1	1st flow - Stal 7
170	2x2 Glevier Cytile	Can level - Hall
173	1	280 \$605 - Start 2
182	2×2 Fasul of the	Lower level - Hell
180		2 flor - Hall
192	12x12 Gray Hour +le	low level - 1tel
190	1	J - 110110 Pm 10
204	= MASTE Black	low level-Hall
200		1 - Hen @ Prom 10
210	Gysongoal	invertence Elevan machier to
213	(1	St flut - ROW 111
224	Jers company	Lower level blever medien
225	1	15 flor - form 111
234	Lucal Flow Down Certing	Lover lavel - Rney, Conversion
230	,]	1 - 1 3
244	2xy flot where cely the	Lower level - Kitcher
243	1	
25A	Kitcher exhaust HOOD INSULCTION	low level tercler
253		
250	7	1
264	12x12 LT Cray flow tile	Lover level Cofereria
260		15T Flow - Perm 101

Project Number/Description 014.07795

Daley mille Stul

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REC'D APR 1 8 2024



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Sample ID	Type of Material	Location
27A	12x12 pul flow to	Low level Cetarus
270	J	15TH - Parm 101
28A	errer Blue flow the	Lower (seed Catetoria
283	1	1 ST Flow Perm 101
294	Maria Assert with & 26,27,	of lower level - catarona
293	V	15- few - from 101
A & E	12x12 way mother floothe	Law level - foom of
305		1st Shor - Room 100
314	, MS+ C	low level - Poon 9
310	7	15- flest - Am 100
32A	Stanless steel sink under coa	Low level - Rem 9
328	1 Gray	- Run12
332	interest who free could white	love learl - Stop AMEX
330	1	150 flow - from 101
340	Plaster first Coat	1 ST Elevi - Hall @ Resmiol
340		1 - Room (0)
340		- Room HG 119
340	2	1 - Norm 129
345		20 floor - Pour 203
346		- (tul 0 220
346	7	J - Pun 230
35A	Plaster Base Cook	1 ST flow - Hell @ Room 101
353		- Rev. 101
353		- Resming
350		- Hown 129
35R		20 flost - Hoson 203
35F		1 Hoy @ for 220
BISTE	<b>)</b>	

Project Number/Description 04, 07795

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Page of of APR 1 8 2024



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Sample ID	Type of Material	Location
356	Mester Bese ConT	2) floor-Room 230
3CA	6" vigl are Best Allosie	15- Floret - Roam 101
369	1	1 - office @ for 108
37F	Capet oblesive or concrete	185 floot - Tecacles Louigne
370	1	- Library
38A	2xy cellytte, 2x2' poriora	ISTELON - frem 115
380	10	1 -Library
390	STEINLESS STEEL S. AL UNDROCKT, BL	al 15T fuer fason 117
390	1	ist floor - from 125
404	2" ped ceranic flow the Coort	155 God - Faculty Pest from a
Cop	1	1 - Norse Anton
412	Textured centing Finish, swis	le Isationa Ru 126 des
413	POTTEN	-
410	ON GYPSUM BO	
420	larceing fle	lot floor - Main Entry
423	1 '	1 1
434	Ceramic wall The crost	1 ST Floor - worse Bathan
433	1	1 1
444	Black Lab Derch top	16- [LOT - RON 170
443	1	- Reon 132
450	Red sheet flooring	14 floor - pary 127
450	1	- pun 129
460	MASTIC Gray/Hack	~ Run 127
469	1	- Pen 129
47 A	Red Seat floor ON Raised Marform	(Si flor - from 127
479		1 1

Project Number/Description \_

Dely welle soul

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Sample ID	Type of Material	Location
484	Dark Red Sleet flowing MASTIC, ten	15. Seed- from 127
489	1	1 1
490	2x2 Coney Pegboon val proce	1 STERES Rosen 127
500	Brown Lindeum on alow 5.11	1 - Am 127
500		- Revm 129
514	NASTIC	- Resm 127
510	,	J - fam 129
524	Extrus Dear Coulle, cray	O STEIN
520	1	O STU TO
534	Externer winded could white	O form 112
530	1	@ Cafeteria
540	BATEVOT HVAC CANCEST COULL	1) Rom 112
543	1	0 rom 10
554	Externs overhang Stocio	8 MAN ENVANCE
552	J	✓ 000 (000)
550		OSTER 7
	1	

Project Number/Description 014, 0779T

Deley make there

REC'D APR 1 8 2024







This is to certify that

# Michael L McCarter

7 Millstone Road, Windham, NH 03087 MA DLS Asbestos Inspector License# AI001825



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

**April 21, 2023** 

**Course Dates** 

23-4804-106-219102

Certificate Number

April 21, 2023

**Examination Date** 

**April 21, 2024** 

**Expiration Date** 

Alon Ell

**Training Director** 

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com





This is to certify that

John A. Vaz

14 Johnson Terrace, Rockland, MA 02370



has completed the requisite training, and has passed an examination for accreditation as:

# Asbestos Management Planner

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

March 15, 2024

**Examination Date** 

March 15, 2025

**Expiration Date** 

**Training Director** 

March 14-15, 2024 **Course Dates** 

24-5258-103-233848

Certificate Number

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

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