

June 3, 2024

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

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

**RE: AHERA 3-Year Reinspection
Lowell High School
50 Father Morissette Boulevard and 40 Paige Street
Lowell, Massachusetts
EFI Project No. 014.07795**

Dear Mr. Underwood:

EFI Global Inc. (EFI) is pleased to present this AHERA 3-Year Reinspection Report prepared for the Lowell High School, located at 50 Father Morissette Boulevard and 40 Paige Street in Lowell, Massachusetts (Site). The reinspection site visits were conducted on April 16th, 17th and May 8th, 2024. 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 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 are in need of 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.



Derrick Calvario
Project Manager
MA Asbestos Inspector # AI 900703



Michael McCarter
Senior Project Manager
MA Asbestos Management Planner #AP 035661

AHERA 3-YEAR REINSPECTION

FOR:

**LOWELL HIGH SCHOOL
50 Father Morissette Boulevard
and
40 Paige Street
LOWELL, MASSACHUSETTS**

PREPARED BY:



**155 WEST STREET, SUITE 6
WILMINGTON, MASSACHUSETTS 01887**

EFI PROJECT NUMBER 014.07795

June 3, 2024

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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 re-inspection at the Lowell High 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 re-inspection was conducted on April 16th, 17th, and May 8th, 2024, by Derrick Calvario and Emma Cypherd, both EPA accredited, and Massachusetts Department of Labor Standards (MADLS) licensed Asbestos Inspectors, (license number AI-900703) and (license number AI-901189) respectively. EFI relied upon the 2020 3-year reinspection table of identified and assumed ACMs for this reinspection. The original AHERA Management Plan and subsequent records were not made available at the school for review. The recommended response actions were prepared by MADLS-licensed Asbestos Management Planner Michael McCarter (AP-033118).

EFI notes that the Lowell High School consists of three buildings referenced as the Freshman Academy Building, Sullivan/Kouloheras (Wing) Building and Raymond J. Lord Academic (Wing) Building. EFI observed that two additions were being constructed to the Lowell High Schools at the time of this inspection. EFI recommends that Lowell Schools include the additions in the Lowell High School AHERA program prior to occupancy as a school.

A summary of known and assumed ACM within the Lowell High 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, 4th Floor
 Lowell, Massachusetts 01852
 978-674-4328
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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 Lowell High School 50 Father Morissette Boulevard and 40 Paige 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 office 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 Training Records (for Rick Underwood)	No	No records available at the school or administrative office for review. Designated Person should receive formal designated person training or review the Designated Person Self Study Guide (available at https://www.epa.gov/sites/default/files/2015-01/documents/dp_study_guide_0.pdf).
Custodial Personnel 2-hour Awareness Training Records	No	No records available at the school or administrative office for review.
Annual Parental Notification Records	No	No records available at the school or administrative office 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 office for review.

Designated Person True and Correct Statement	No	No records available at the school or administrative office for review.
6-month Surveillance Inspection Records	No	No records available at the school or administrative office for review.
Previous 3-Year Reinspection Records	No	No records available at the school or administrative office for review.
Asbestos Labels present (required in routine maintenance areas)	No	No labeling 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:

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

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

Miscellaneous Materials: 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. Damaged Surfacing ACM: 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. Significantly Damaged ACM: 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. Good Condition ACM: 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 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 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 Lowell High School are located in **Attachment A**. The following are general recommendations for response actions associated with managing ACMs at the school.

1. Damaged materials in the school should be repaired, if feasible, or removed in order to maintain compliance with the AHERA regulations. Damaged ACMs of any quantity listed in the report should be repaired or removed by a Massachusetts licensed asbestos abatement 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 six-month 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 Lowell High School was performed by the following individuals who have received appropriate training and who are MADLS licensed personnel:



Derrick Calvario
Project Manager
MA Asbestos Inspector # AI 900703



Michael McCarter
Senior Project Manager
MA Asbestos Management Planner #AP 035661

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 Derrick Calvario and Emma Cypherd. A total of 294 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 3-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 B** 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 C**.

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 no detectable concentration of asbestos:

Summary of Non-ACMs per 2024 3-Year Reinspection
Freshman Academy Building

Material Description	Location(s) Sampled
Gypsum Board	Hallway Near Room 700, 2 nd /3 rd Floor Rear Staircase
Joint Compound	Hallway Near Cafeteria, Room 717, Hallway Near Room 811, Room 911, Room 819, 2 nd /3 rd Floor Rear Staircase, Hallway Near Room 850

Material Description	Location(s) Sampled
Yellow Corner Bead Mastic	Near Cafeteria
Interior White Window Caulk	Cafeteria, Room 910,
Pin/Fissure Ceiling Tile	Room 702, Hallway Outside 911
Cove Base	Room 703, Room 908
Tan Mastic Associated with Cove Base	Room 703, Room 908
Black Stair Tread Mastic	Hallway Outside Theater
Interior Black Caulking	John Street Side Door/ Lobby
Yellow Stair Tread Mastic	John Street Side Door/ Lobby
White Sink Undercoat	Room 724, Room 909
12x12 Tan Floor Tile with Tan Speck	Room 811, Room 850
12x12 Beige Floor Tile with Tan Speck	Room 901, 3 rd Floor Hallway Center
12x12 Light Grey Floor Tile with Grey Speck	Room 906, Room 904
12x12 Red Floor Tile with White Speckle	Room 856
12x12 White Floor Tile	Room 855
12x12 Tan Floor Tile	Room 854, Room 810
12x12 White Floor Tile with Blue Orange Speck	Cafeteria, Hallway Near 712
Yellow Tile Mastic	Room 856, Room 855, Room 854, Room 810, Cafeteria, Hallway Near 712, Room 906, Room 904
Black Tile Mastic	Room 855, Room 901, Hallway Near 712, Room 856
White Floor Leveler	Room 855, Room 854, Hallway Near 712, Hallways Near 854
Crow's Feet Ceiling Tile	Room 902, Room 851
Lab Bench	Room 901
Ceramic Tile Grout	2 nd Floor Men's Room, 2 nd Floor Women's Room, Hallway Outside Cafeteria
White Caulking on Interior Door Frame	Basement Cafeteria, Outside Theater
Black Caulking on Doors	Rear Door, Door # 4
Black Caulking on Windows	Paige Street Windows, Window by Door # 3
1x1 Ceiling Tile	Hallway Outside Cafeteria

Summary of Non-ACMs per 2024 3-Year Reinspection
Sullivan/ Kouloheras (Wing) Building

Material Description	Location(s) Sampled
Cove Base	2 nd Floor Near Staircase D, 3 rd Floor Near Storage
Yellow Cove Base Mastic	2 nd Floor Near Staircase D, 3 rd Floor Near Storage
Green Carpet Mastic	Room 232, Room 207B
Plaster Skim Coat	Room 232, Room 223, Room 308, 304A, Room 105, Under Staircase D, Hallway by Staircase C
Plaster Base Coat	Room 232, Room 223, Room 308, 304A, Room 105, Under Staircase D, Hallway by Staircase C

Material Description	Location(s) Sampled
Yellow Trim/Baseboard Mastic	Outside Room 234
Gypsum Board	Room 208B, Custodian by Room 144
Joint Compound	Room 223, Room 206C, Room 308, Room 109, Hallway by Staircase I, Room 016, Near Room 023 and 027
Yellow Stair Tread Mastic	Staircase B
12x12 Grey Floor Tile	Room 207B
12x12 Dark Blue Floor Tile	Room 314, Hallway by Room 305
12x12 White Floor Tile	Room 314, Hallway by Room 305
12x12 Teal Floor Tile	Room 314, Hallway by Room 305
12x12 Light Blue Floor Tile	Room 314, Office off Room 304A
12x12 Grey Floor Tile	Room 314
12x12 Dark Grey Floor Tile	Room 314, Room 027
12x12 Grey Floor Tile with Smudge	4 th Floor Office Area
12x12 Beige Floor Tile	Room 012, Room 020
Yellow Tile Mastic	Room 207B, 4 th Floor Office Area, Room 020
Yellow Carpet Mastic	Room 207B, Room 120
Floor Leveler	Room 207B, Room 304A, Basement Storage/Old Bathroom
Grey Luxury Vinyl Plank	2 nd Floor Staircase B Landing
Ceramic Tile Grout	Near Room 220, Bathroom by Room 147, Room 304A, Basement Storage/Old Bathroom
Ceramic Tile Thinset	Near Room 220, Bathroom by Room 147
Pinhole Ceiling Tile	Room 306, Room 316
Large Crow's Feet Ceiling Tile	Room 005, Room 023
Small Crow's Feet Ceiling Tile	Room 026, Room 025
Textured Pinhole Ceiling Tile	Hallway by Room 014, Room 020
Rough Textured Ceiling Tile	Room 026
Black Floor Tile Mastic	Room 305
White Caulking on Wall	Room 147, Basement Storage/Old Bathroom
Grey Sink Undercoat	Room 017
Grey with Speck Vinyl Flooring	Room 017, Room 019
Exterior Grey Door Caulk	1 st Floor Across from Stair I, 1 st Floor Across from Stair B
Exterior Black Window Caulking	Courtyard
White Joint Caulk	Front of Building

Summary of Non-ACMs per 2024 3-Year Reinspection
Raymond J. Lord Academic (Wing) Building

Material Description	Location(s) Sampled
12x12 White Floor Tile	Room 648, Entrance by Cafeteria
12x12 Red Floor Tile	Room 667, 1 st Floor Slip Sink
12x12 Grey Floor Tile	Outside Room 558, 1 st Floor Slop Sink, Cafeteria

Material Description	Location(s) Sampled
12x12 White with Blue Speckle Floor Tile	Cafeteria
12x12 Dark Blue Floor Tile	Cafeteria
12x12 Light Blue Floor Tile	Cafeteria
12x12 Maroon Floor Tile	Kitchen
12x12 Pink Floor Tile	Kitchen
12x12 Grey with Speckled Floor Tile	Kitchen
12x12 Grey with Smudge Floor Tile	Kitchen
12x12 Beige with Speckled Floor Tile	1 st Floor Nurse' Room
12x12 Magenta Floor Tile	Kitchen
Black Tile Mastic	Kitchen, 1 st Floor Nurse' Room
Yellow Tile Mastic	Outside Room 158, Side Entrance by Cafeteria, Kitchen
Floor Leveler	Outside Room 648
Cove Base	Outside Room 558, Outside Room 658
Tan Cove Base Mastic	Outside Room 558, Outside Room 658
Crow's Feet Ceiling Tile	Hallway Outside 648, Room 646
Pinhole Ceiling Tile	Outside Room 629, 1 st Floor Kitchen
Small Crow's Feet Ceiling Tile	Room Outside School Store, Room 652
Brown Window Caulking	Cafeteria, Room 652
Brown Wall Caulking	Outside Room 648
White Wall Caulking	Cafeteria, Room 652
Spray-On Fire Proofing	Outside Room 629, Outside Room 652, 2 nd Floor Outside Staircase 5, 1 st Floor Outside Staircase 5
Lab Bench	3 rd Floor Lab B
Grey Vinyl Sheet Flooring	Outside Hallway School Store
Blue Sheet Floor Mastic	Outside Hallway School Store
Gypsum Board	Hallway Near 527, Hallway Behind Kitchen
Joint Compound	Hallway Near 527, Hallway Behind Kitchen, 1 st Floor Hallway Outside Nurse' Room, 1 st Floor Outside Staircase 5, Room 644, Room 654, Room 624
Red Fire Stopper	2 nd Floor Outside Stair 5
Ceramic Tile Grout	Kitchen, 2 nd Floor Women's Bathroom by Staircase 5, 3 rd Floor Women's Bathroom by Staircase 5
White Window Caulk Under Silicone	Cafeteria
Grey Vinyl Sheet Flooring	3 rd Floor Stair 5 Landing, 1 st Floor Staircase 5 Landing
Yellow Mastic on vinyl Sheet Flooring	3 rd Floor Stair 5 Landing, 1 st Floor Staircase 5 Landing, Bridge Near Room 548
Brown Caulk on Bridge	Bridge Near Room 548
Sheet Flooring on Bridge	Bridge Near Room 548
Exterior Black Door Caulk	Exterior Door #4
Exterior Red Caulk on Brick	Near Exterior Door #4
Exterior White Caulk on Building	Near Exterior Door #4

G. ACM Hazard Assessment & Recommended Response Actions

Accessible locations were inspected and assessed to determine the presence and condition of 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 Lowell High School 50 Father Morissette Boulevard and 40 Paige 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	Approximate Cost
Asbestos labeling (Place/maintain labels adjacent to ACM in routine maintenance areas)	\$500
6-month surveillance inspections (Per schedule below)	\$500/event
3-year re-inspection (Per schedule below)	\$2,000
Response Action Costs	
Item	Approximate Cost
No Recommended Response Actions.	Not Applicable

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 Lowell High School 50 Father Morissette Boulevard and 40 Paige Street, Lowell, Massachusetts	
Event	Completion Date
Annual Parental Notification Letter	September 1, 2024
6 Month Surveillance Inspection	November 8, 2024
6 Month Surveillance Inspection	May 8, 2025
Annual Parental Notification Letter	September 1, 2025
6 Month Surveillance Inspection	November 8, 2025
6 Month Surveillance Inspection	May 8, 2026
Annual Parental Notification Letter	September 1, 2026
6 Month Surveillance Inspection	November 8, 2026
3 Year Reinspection	May 8, 2027

ATTACHMENT A

AHERA SUMMARY TABLE

AHERA 3-Year Reinspection Summary Table
Lowell High School
Summary Table of Identified and Assumed Asbestos-Containing Building Materials
50 Father Morissette Boulevard and 40 Paige Street, Lowell, MA
Dates of Inspection: April 16th, 17th and May 8, 2024

Item	Material Description	Location	Quantity	Friability (F/NF)	Sample Results	Assessment Category	Condition	Response Actions/Notes	Recommended Completion Date
1	Pipe Insulation	Sullivan/Kouloheras Building - Fan Room – Canal Street Side	50 LF	NF	Positive per Management Plan records	6	Good	Manage in place in accordance with the Asbestos O&M Program. Rooms where vibration is present due to operating mechanical equipment can be inspected more frequently, such as every 3 months, by trained maintenance personnel. Do not store ladders, supplies or other equipment near the pipe fitting insulation.	
2	Flex Joint	Sullivan/Kouloheras Building – Room Beneath Pool (Mechanical)	10 Joints	NF	Positive per Management Plan records	6	Good	Manage in place in accordance with the Asbestos O&M Program. Rooms where vibration is present due to operating mechanical equipment can be inspected more frequently, such as every 3 months, by trained maintenance personnel. Do not store ladders, supplies or other equipment near the pipe fitting insulation.	
3	Pipe Elbow Insulation	Sullivan/Kouloheras Building – Room Beneath Pool (Mechanical)	5 Elbows	NF	Assumed ACM per Management Plan records	6	Good	Manage in place in accordance with the Asbestos O&M Program. Rooms where vibration is present due to operating mechanical equipment can be inspected more frequently, such as every 3 months, by trained maintenance personnel. Do not store ladders, supplies or other equipment near the pipe fitting insulation. Collect bulk samples to determine asbestos content prior to any disturbance.	
4	Plaster Ceiling	Sullivan/Kouloheras Building Fan Room – Kirk Street Side	850 SF	NF	Positive per Management Plan records	6	Good	Manage in place in accordance with the Asbestos O&M Program. Rooms where vibration is present due to operating fans should be inspected regularly, such as every 2-3 weeks, by trained maintenance personnel.	
5	Plaster Ceiling	Sullivan/Kouloheras Building Fan Room – Canal Street Side	800 SF	NF	Positive per Management Plan records	6	Good	Manage in place in accordance with the Asbestos O&M Program. Rooms where vibration is present due to operating fans should be inspected regularly, such as every 2-3 weeks, by trained maintenance personnel.	
6	Lab Bench (material added per 2024 reinspection)	Sullivan/Kouloheras Building – Room 314	220 SF	NF	40 % Chrysotile Asbestos	5	Good	Manage in place in accordance with the Asbestos O&M Program.	
7	Lab Bench (material added per 2024 reinspection)	Sullivan/Kouloheras Building – Room 304A	200 SF	NF	40 % Chrysotile Asbestos	5	Good	Manage in place in accordance with the Asbestos O&M Program.	
8	Black Window Caulking (material added per 2024 reinspection)	Sullivan/Kouloheras Building – Near Stair B Interior Courtyard	150 LF	NF	3% Chrysotile Asbestos	5	Good	Material was observed to be located on interior side of windows and doors. Manage in place in accordance with the Asbestos O&M Program.	
9	Black Window Caulking (material added per 2024 reinspection)	Sullivan/Kouloheras Building – Near Stair I Interior Courtyard	150 LF	NF	3% Chrysotile Asbestos	5	Good	Material was observed to be located on interior side of windows and doors. Manage in place in accordance with the Asbestos O&M Program.	
10	Exterior Black Window Caulking (material added per 2024 reinspection)	Raymond J. Lord Academic Wing	65 Units	NF	2% Chrysotile Asbestos	5	Good	Material was observed to be located on the exterior side of windows. Manage in place in accordance with the Asbestos O&M Program.	

AHERA 3-Year Reinspection Summary Table
Lowell High School
Summary Table of Identified and Assumed Asbestos-Containing Building Materials
50 Father Morissette Boulevard and 40 Paige Street, Lowell, MA
Dates of Inspection: April 16th, 17th and May 8, 2024

Item	Material Description	Location	Quantity	Friability (F/NF)	Sample Results	Assessment Category	Condition	Response Actions/Notes	Recommended Completion Date
11	Flex Joint	Freshman Academy – Penthouse Mechanical Room	3 Joints	NF	Positive per Management Plan records	6	Good	Manage in place in accordance with the Asbestos O&M Program. Do not store ladders, supplies or other equipment near the pipe joint insulation.	

SF = Square Feet

LF = Linear Feet

For all recommended response actions, 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

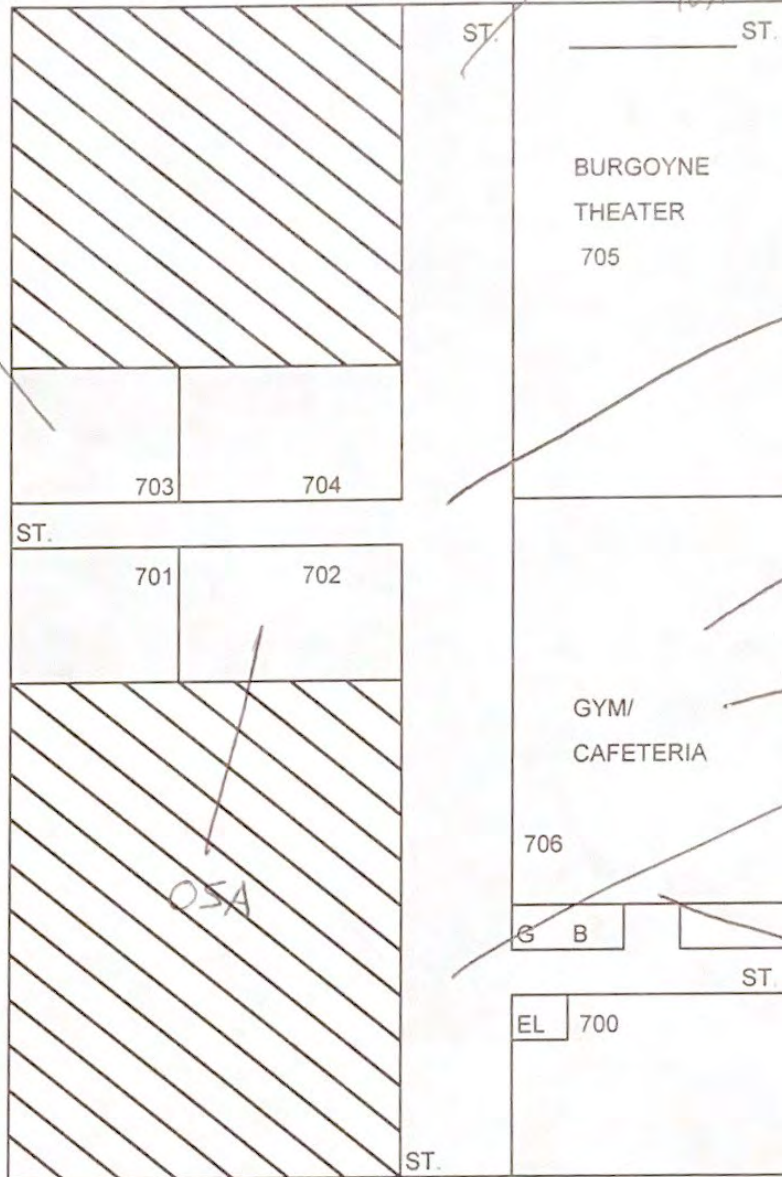
SITE PLANS AND 2024 REINSPECTION ASBESTOS BULK SAMPLE LOCATIONS

FRESHMAN ACADEMY BUILDING
BASEMENT FLOOR
JOHN STREET

06A
07A

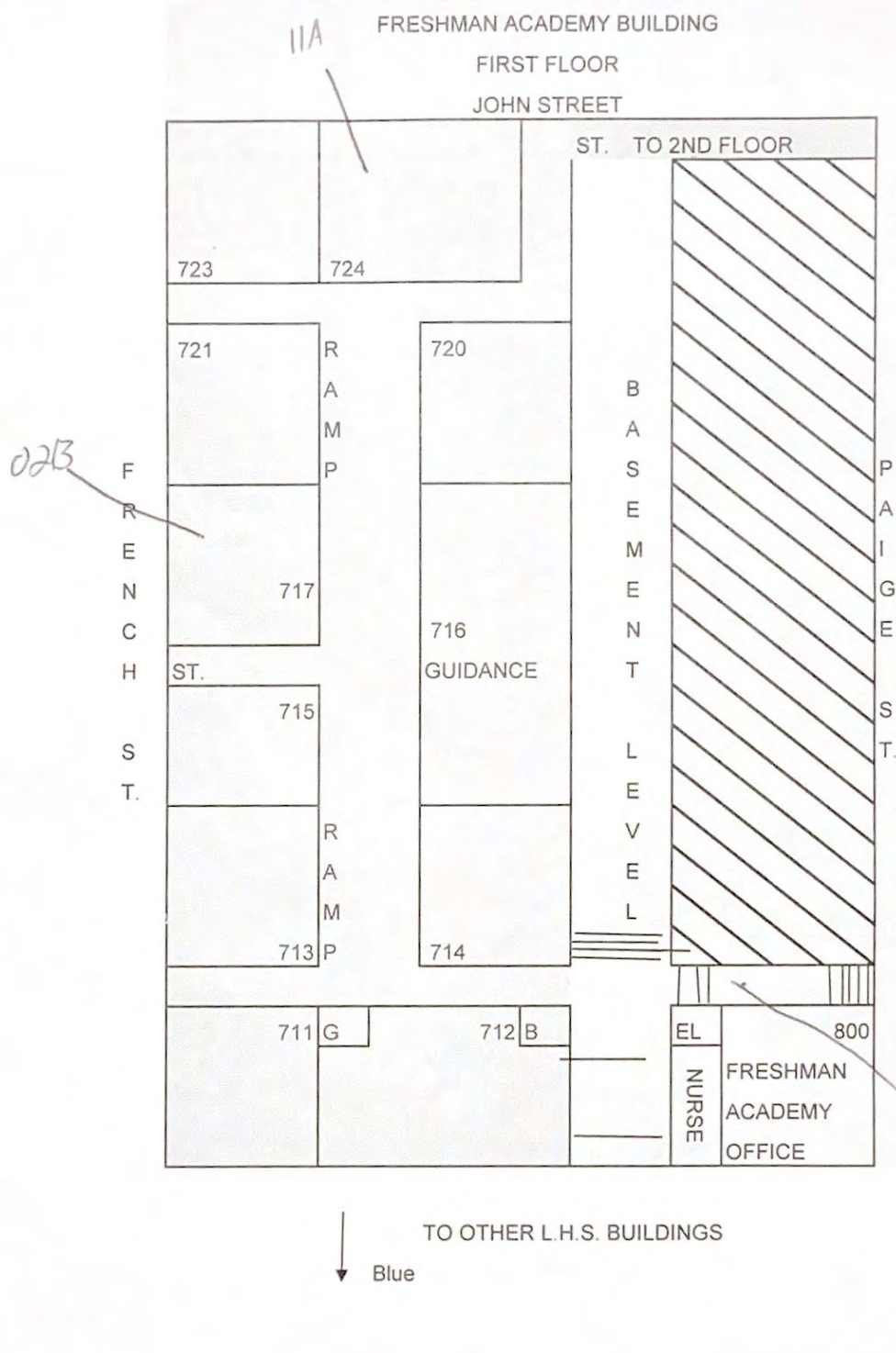
F
R
E
N
C
H

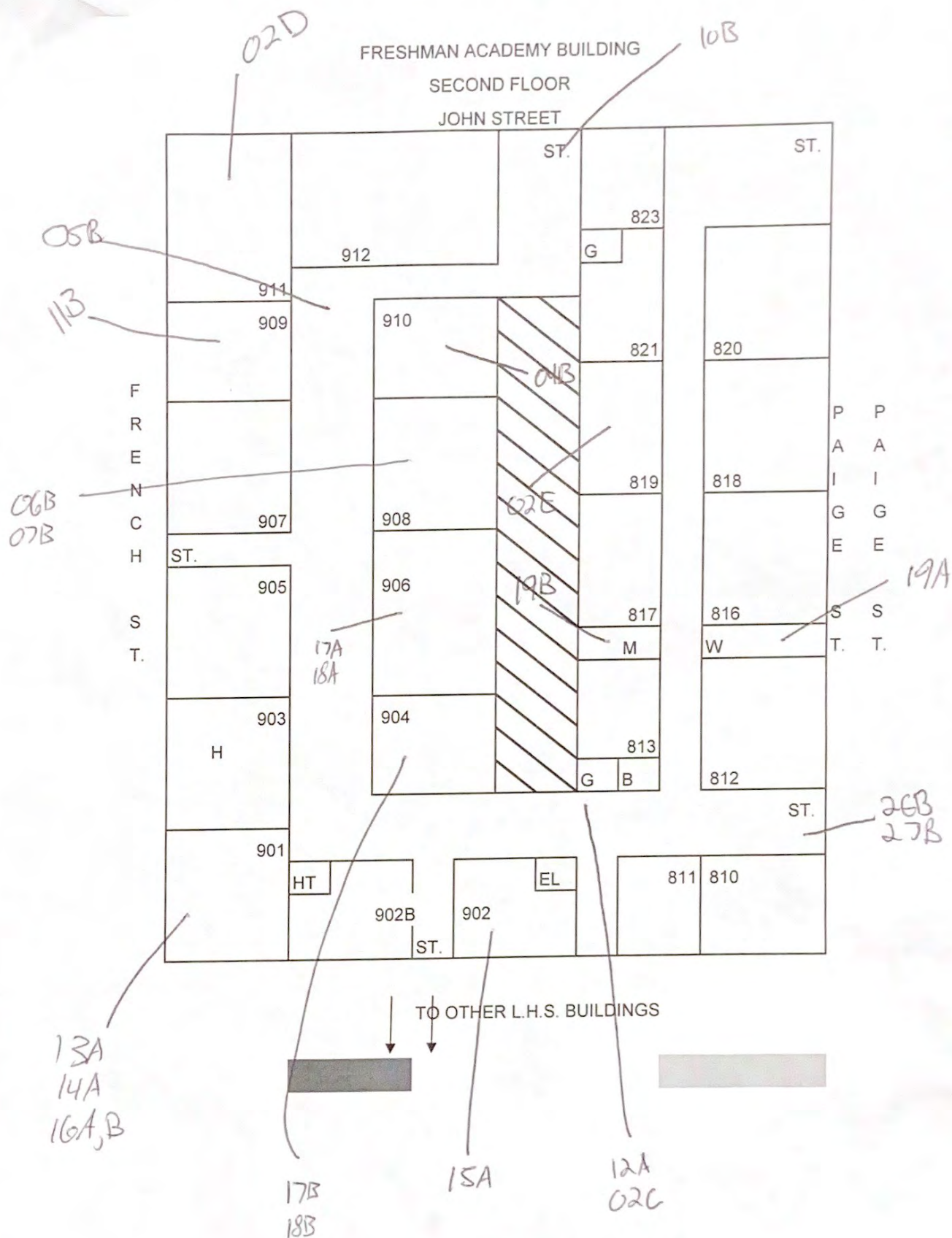
S
T.



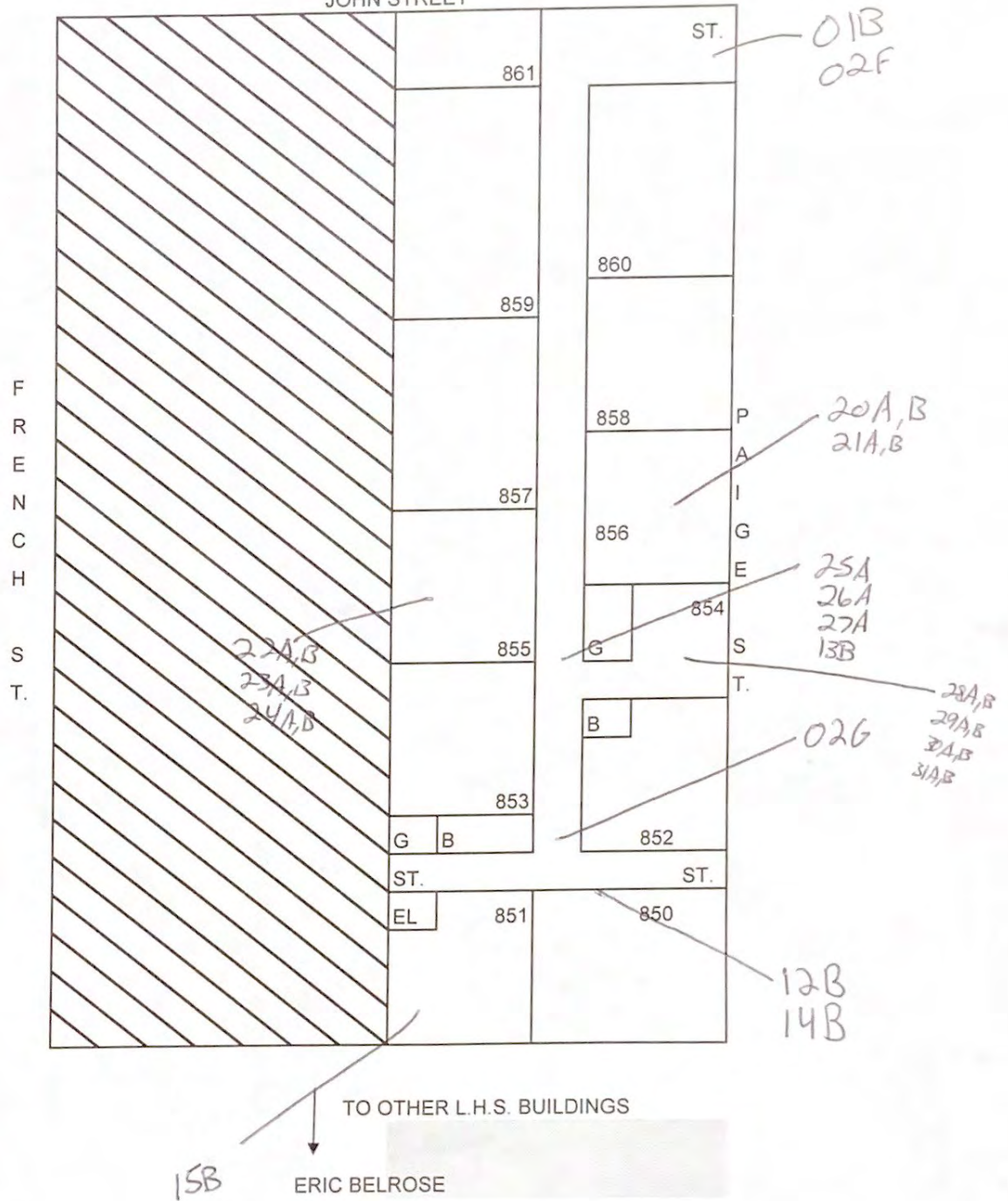
TO OTHER L.H.S. BUILDINGS

KATHY PARENT LIGHT YELLOW





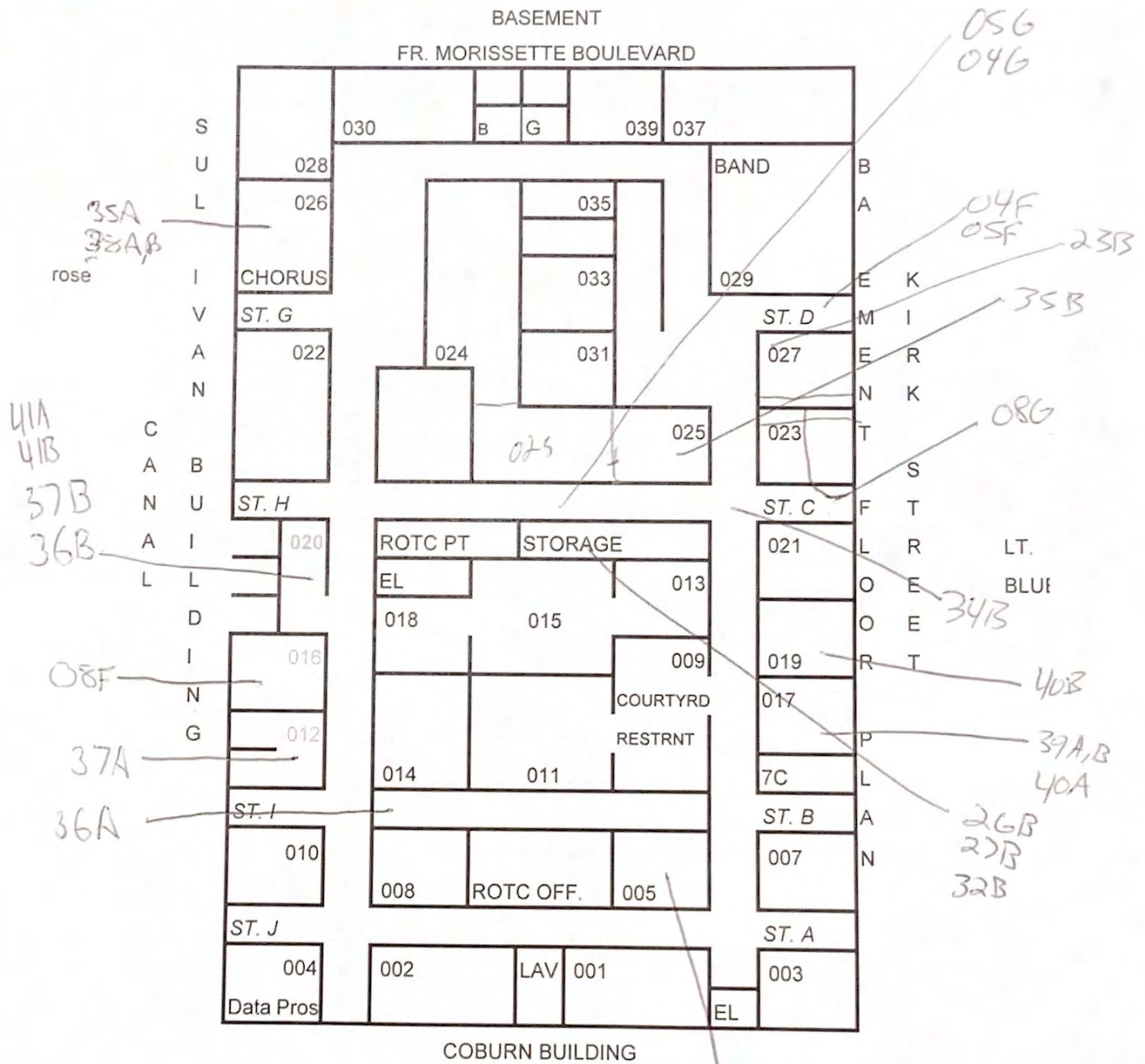
JOHN STREET



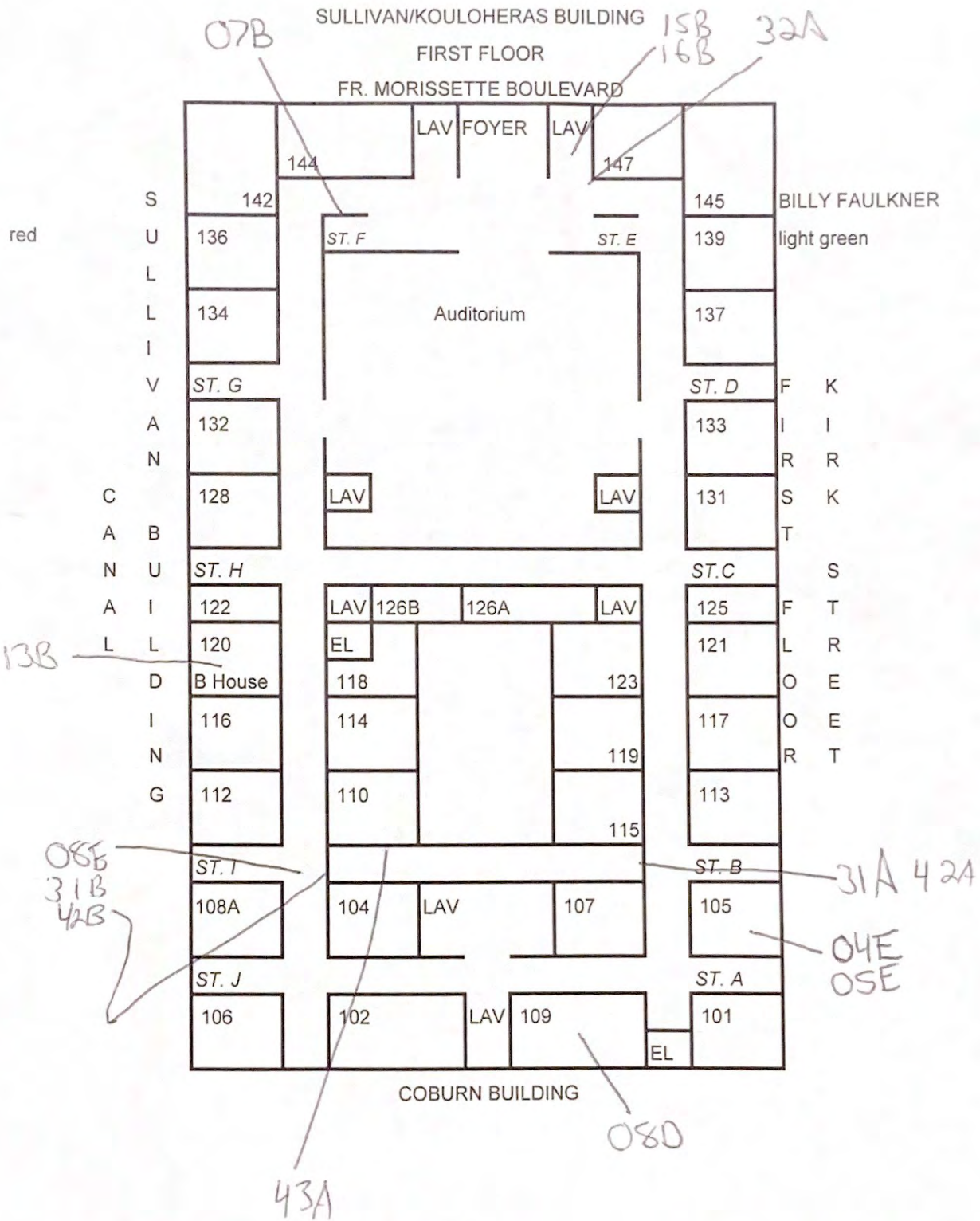
SULLIVAN/KOULOHERAS BUILDING

BASEMENT

FR. MORISSETTE BOULEVARD



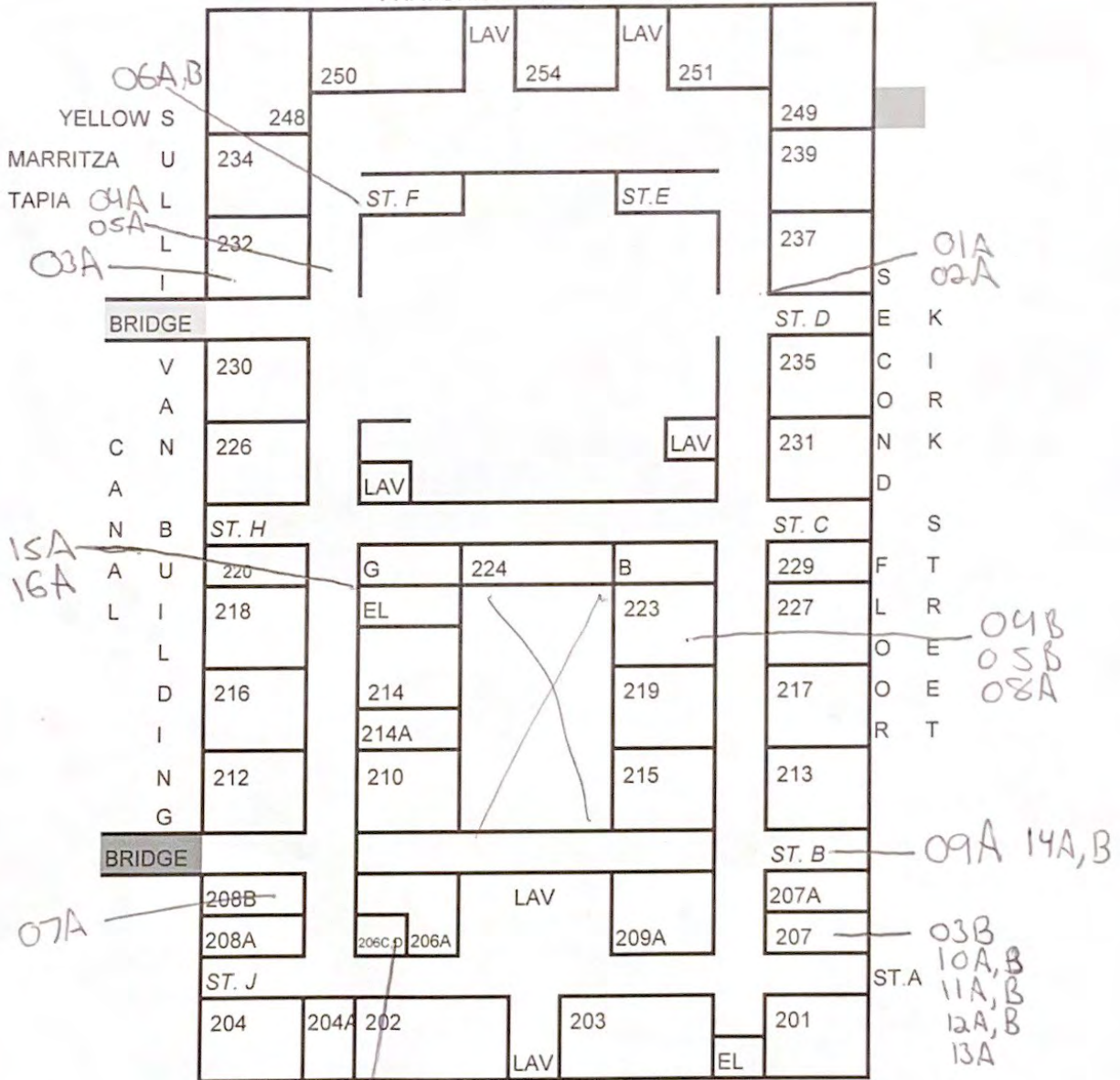
COBURN BUILDING



SULLIVAN/KOULOHERAS BUILDING

SECOND FLOOR

FR. MORISSETTE BOULEVARD



COBURN BUILDING

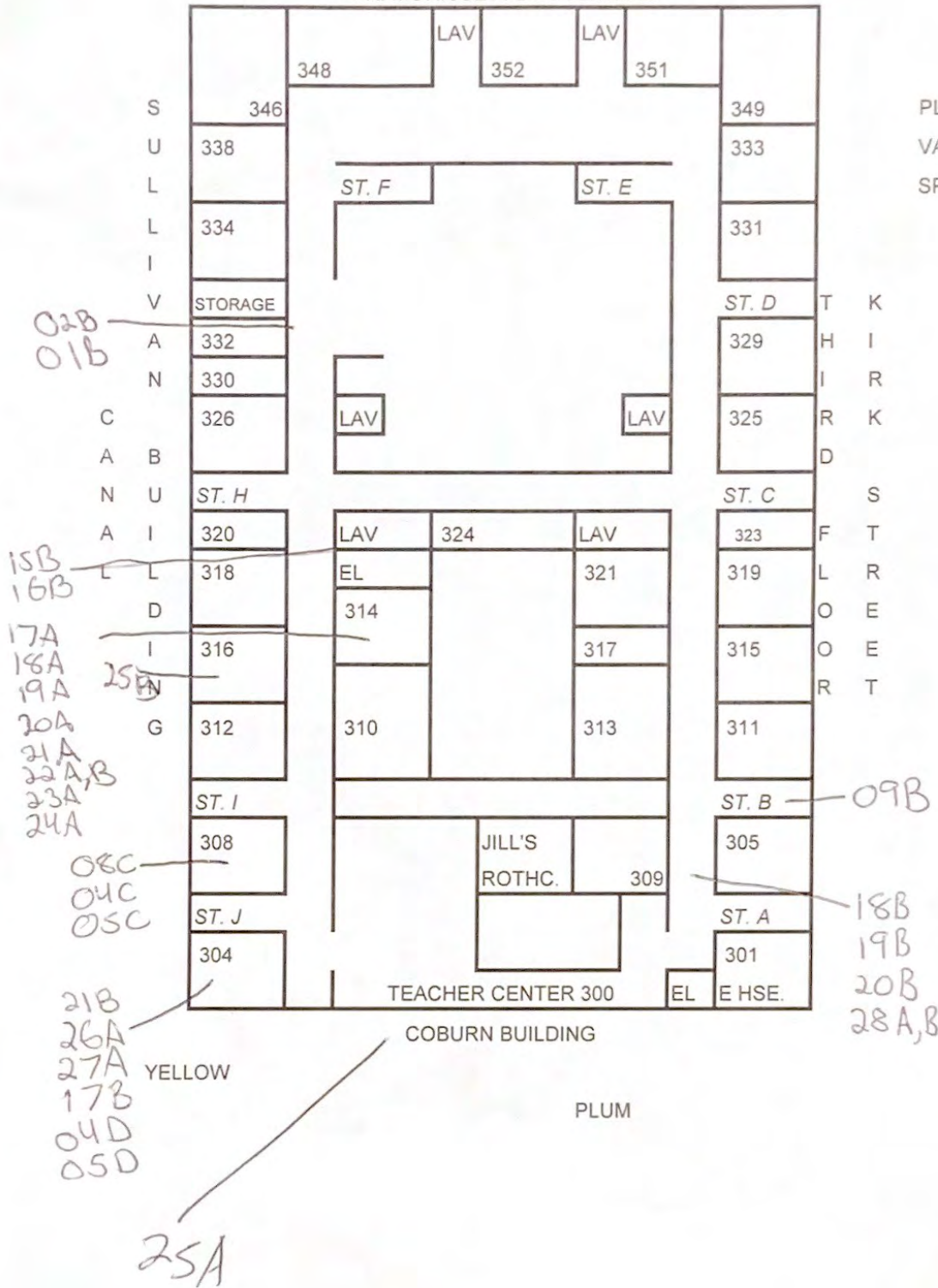
GRAY-FREDDY ESTEVES

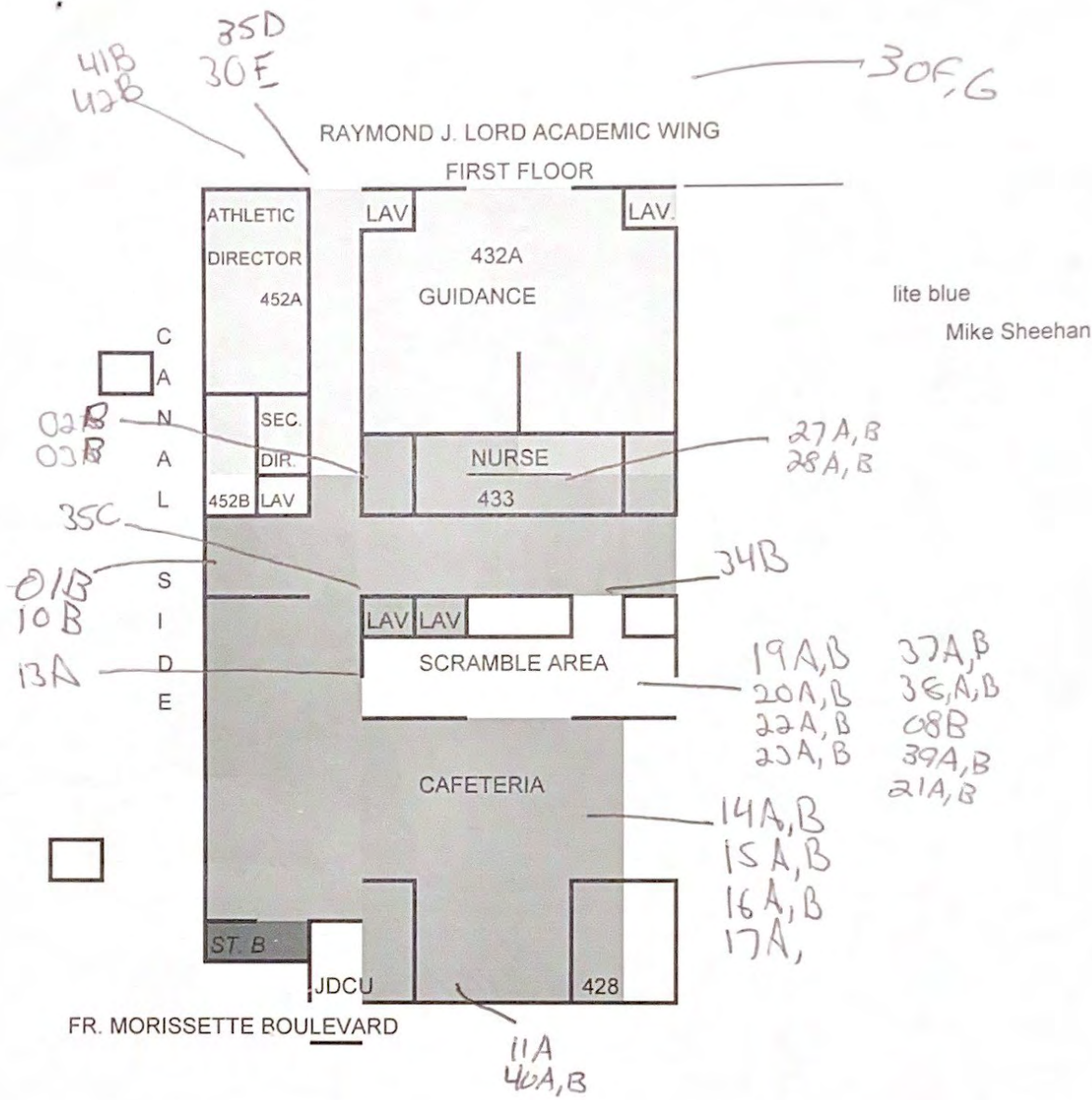
SULLIVAN/KOULOHERAS BUILDING

THIRD FLOOR

FR. MORISSETTE BOULEVARD

PLUM SERCUITY
VACATION WEEK
SPRING 2023





FR. MORISSETTE BOULEVARD

Ronnie Smith BRIGHT GREEN
eric
ronnie
tommy
alan

300, D 46A

36A
36B

RAYMOND J. LORD ACADEMIC WING

SECOND FLOOR

ST. A

BRIDGE

06A

C
A
N
A
L

S
I
D
E

552

LAV

LAV

542

522

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ST. B

ST. C

FR MORISSETTE BOULEVARD

BRIDGE

TOM JENSEN

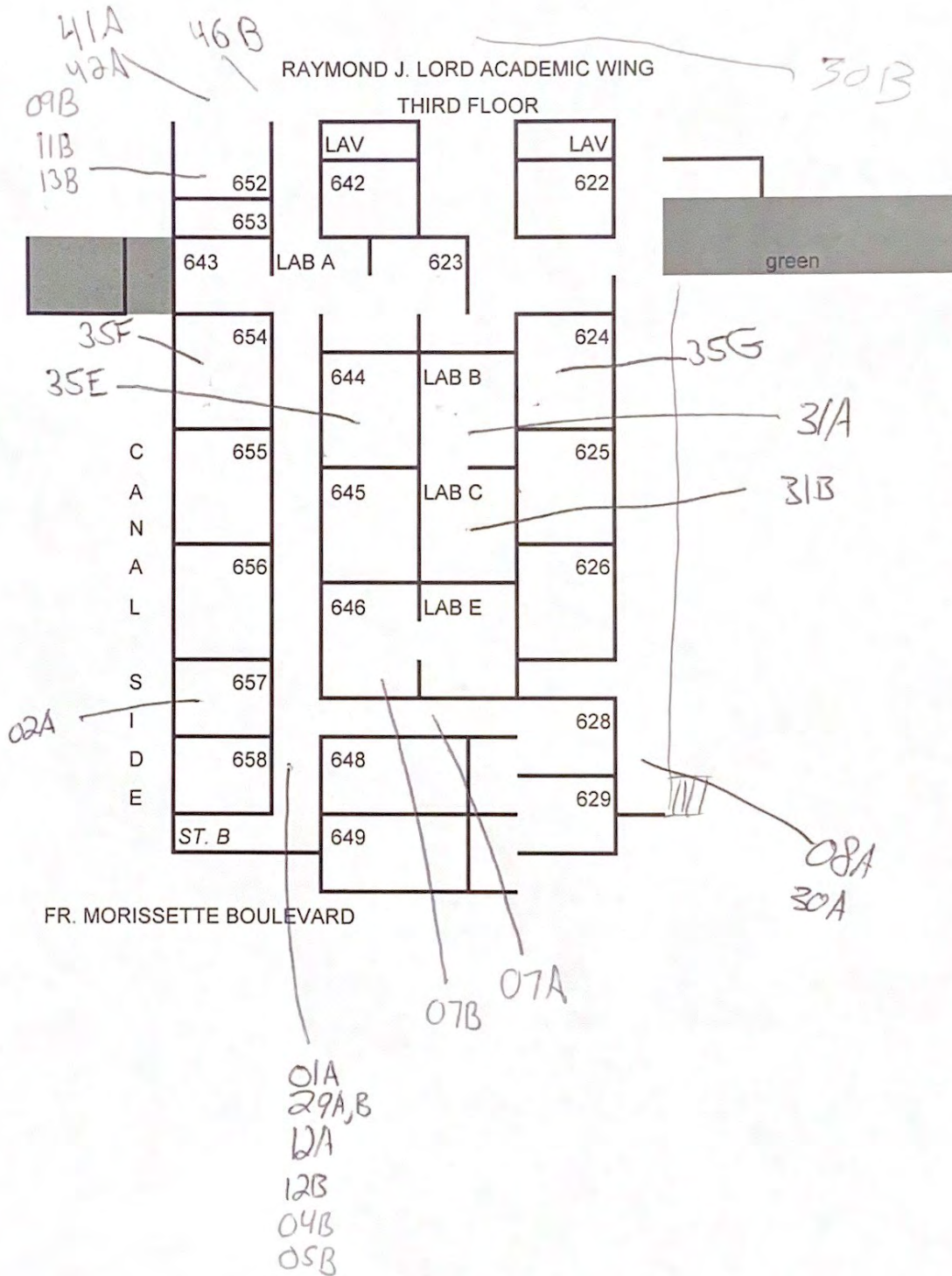
LAZ HAS WHITE

34A
35A

32A, B
34A, B

07A

43A, B
44A, B
45A, B



ATTACHMENT C

2024 REINSPECTION ASBESTOS BULK SAMPLE LABORATORY REPORT



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: 132402239

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Derrick Calvario

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Phone: (978) 688-3736

Fax: (978) 688-5494

Received Date: 04/19/2024 3:35 PM

Analysis Date: 04/24/2024

Collected Date: 04/18/2024

Project: 014.07795 - Lowell High School; Sullivan/Kouloheras Building

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
01A 132402239-0001	2nd Floor - near Stage D - Cove Base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B 132402239-0002	3rd Floor - near Staircase - Cove Base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A 132402239-0003	2nd Floor - near Stage D - Assoc. Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B 132402239-0004	3rd Floor - near Storage - Assoc. Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A 132402239-0005	2nd Floor - Room 232 - Green Carpet Mastic on Plywood	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B 132402239-0006	2nd Floor - Room 207B - Green Carpet Mastic on Plywood	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04A 132402239-0007	2nd Floor - Hallway Outside Room 232 - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B 132402239-0008	2nd Floor - Room 223 - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04C 132402239-0009	3rd Floor - Room 308 - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04D 132402239-0010	3rd Floor - Office off 304A - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04E 132402239-0011	1st Floor - Room 105 - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04F 132402239-0012	Basement - under Stair D - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04G 132402239-0013	Basement - Hall by Stair C - Plaster Skim Coat - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A 132402239-0014	2nd Floor - Hallway Outside Room 232 - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
05B 132402239-0015	2nd Floor - Room 223 - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected

Initial report from: 04/24/2024 16:54:56



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

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

EMSL Order: 132402239

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
05C 132402239-0016	3rd Floor - Room 308 - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
05D 132402239-0017	3rd Floor - Office off 304A - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05E 132402239-0018	1st Floor - Room 105 - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05F 132402239-0019	Basement - under Stair D - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
05G 132402239-0020	Basement - Hall by Stair C - Plaster Base Coat - Ceiling	Gray Non-Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
06A 132402239-0021	2nd Floor - Hallway Outside Room 234 - Yellow Mastic on Trim/Baseboard	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06B 132402239-0022	2nd Floor - Hallway Outside Room 234 - Yellow Mastic on Trim/Baseboard	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A 132402239-0023	2nd Floor - Room 208B - Gypsum Board	Gray/Tan Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
07B 132402239-0024	1st Floor - Custodian by Room 144 - Gypsum Board	Gray/Tan Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
08A 132402239-0025	2nd Floor - Room 223 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08B 132402239-0026	2nd Floor - Room 206C - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08C 132402239-0027	3rd Floor - Room 308 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08D 132402239-0028	1st Floor - Room 109 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08E 132402239-0029	1st Floor - Hall by Stair I - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08F 132402239-0030	Basement - Room 016 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08G 132402239-0031	Basement - between 27 & 23 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09A 132402239-0032	2nd Floor - Stair B - Yellow Stair Tread Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B 132402239-0033	3rd Floor - Stair B - Yellow Stair Tread Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/24/2024 16:54:56



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EMSL Order: 132402239

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10A 132402239-0034	2nd Floor - Room 207B - 12x12 Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10B 132402239-0035	2nd Floor - Room 207B - 12x12 Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11A 132402239-0036	2nd Floor - Room 207B - Mastic assoc. w. 12x12 Gray FT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11B 132402239-0037	2nd Floor - Room 207B - Mastic assoc. w. 12x12 Gray FT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12A 132402239-0038	2nd Floor - Room 207B - Floor Leveler assoc. w. 12x12 Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12B 132402239-0039	2nd Floor - Room 207B - Floor Leveler assoc. w. 12x12 Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13A 132402239-0040	2nd Floor - Room 207B - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13B 132402239-0041	1st Floor - Room 120 - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A 132402239-0042	2nd Floor - Stair B Landing - Luxury Vinyl Plank Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14B 132402239-0043	2nd Floor - Stair B Landing - Luxury Vinyl Plank Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15A 132402239-0044	2nd Floor - near Room 220 - Ceramic Wall Tile Thinset	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15B 132402239-0045	1st Floor - Bathroom by Room 147 - Ceramic Wall Tile Thinset	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16A 132402239-0046	2nd Floor - near Room 220 - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16B 132402239-0047	1st Floor - Bathroom by Room 147 - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17A 132402239-0048	3rd Floor - Room 314 - Lab Bench	Black Fibrous Homogeneous		60% Non-fibrous (Other)	40% Chrysotile
17B 132402239-0049	3rd Floor - Room 304A - Lab Bench				Positive Stop (Not Analyzed)
18A 132402239-0050	3rd Floor - Room 314 - 12x12 Dark Blue FT	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18B 132402239-0051	3rd Floor - Hall by Room 305 - 12x12 Dark Blue FT	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 132402239

Customer ID: EAFI66

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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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
19A 132402239-0052	3rd Floor - Room 314 - 12x12 White FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19B 132402239-0053	3rd Floor - Hall by Room 305 - 12x12 White FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20A 132402239-0054	3rd Floor - Room 314 - 12x12 Teal FT	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20B 132402239-0055	3rd Floor - Hall by Room 305 - 12x12 Teal FT	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21A 132402239-0056	3rd Floor - Room 314 - 12x12 Light Blue FT	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21B 132402239-0057	3rd Floor - Office off 304A - 12x12 Light Blue FT	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22A 132402239-0058	3rd Floor - Room 314 - 12x12 Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22B 132402239-0059	3rd Floor - Room 314 - 12x12 Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23A 132402239-0060	3rd Floor - Room 314 Closet - 12x12 Dark Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23B 132402239-0061	Basement - 027 Bathroom - 12x12 Dark Gray FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25A 132402239-0062	3rd Floor - Room 306 - Pinhole CT	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
25B 132402239-0063	3rd Floor - Room 316 - Pinhole CT	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
26A 132402239-0064	3rd Floor - Room 304A - Ceramic Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26B 132402239-0065	Basement - Storage/Old Bathroom - Ceramic Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27A 132402239-0066	3rd Floor - Room 304A - Leveler assoc. w. Ceramic Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27B 132402239-0067	Basement - Storage/Old Bathroom - Leveler assoc. w. Ceramic Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28A 132402239-0068	3rd Floor - Hall by Room 305 - Black Mastic assoc. w. 12x12 Floor Tile				Not Submitted

Initial report from: 04/24/2024 16:54:56



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

EMSL Order: 132402239

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
28B 132402239-0069	3rd Floor - Hall by Room 305 - Black Mastic assoc. w. 12x12 Floor Tile				Not Submitted
29A 132402239-0070	4th Floor - Office Area - 12x12 Gray w. Smudge Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29B 132402239-0071	4th Floor - Office Area - 12x12 Gray w. Smudge Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30A 132402239-0072	4th Floor - Office Area - Mastic assoc. w. 12x12 Gray w. Smudge Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30B 132402239-0073	4th Floor - Office Area - Mastic assoc. w. 12x12 Gray w. Smudge Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31A 132402239-0074	1st Floor - Across from Stair B - Black Window Caulk	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
31B 132402239-0075	1st Floor - Across from Stair I - Black Window Caulk				Positive Stop (Not Analyzed)
32A 132402239-0076	1st Floor - Outside Room 147 - White Caulk on Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32B 132402239-0077	Basement - Storage/Old Bathroom - White Caulk on Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34A 132402239-0078	Basement - Room 05 - Large Crows Feet CT	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
34B 132402239-0079	Basement - Hall Outside 023 - Large Crows Feet CT	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
35A 132402239-0080	Basement - Room 026 - Small Crows Feet CT	Gray/White Fibrous Homogeneous	45% Cellulose 20% Min. Wool	35% Non-fibrous (Other)	None Detected
35B 132402239-0081	Basement - Room 025 - Small Crows Feet CT	Gray/White Fibrous Homogeneous	45% Cellulose 20% Min. Wool	35% Non-fibrous (Other)	None Detected
36A 132402239-0082	Basement - Hall by 014 - Textured Pinhole CT	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
36B 132402239-0083	Basement - Room 020 - Textured Pinhole CT	Gray/White Fibrous Homogeneous	45% Cellulose 20% Min. Wool	35% Non-fibrous (Other)	None Detected
37A 132402239-0084	Basement - Room 012 - 12x12 Beige Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37B 132402239-0085	Basement - Room 020 - 12x12 Beige Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38A 132402239-0086	Basement - Room 026 - Rough Textured CT	Gray/White Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected

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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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
38B 132402239-0087	Basement - Room 026 - Rough Textured CT	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
39A 132402239-0088	Basement - Room 017 - Gray Sink Undercoat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
39B 132402239-0089	Basement - Room 017 - Gray Sink Undercoat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
40A 132402239-0090	Basement - Room 017 - Gray w. Spec Vinyl Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
40B 132402239-0091	Basement - Room 019 - Gray w. Spec Vinyl Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41A 132402239-0092	Basement - Room 020 - Yellow Mastic assoc. w. 12x12 Beige Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41B 132402239-0093	Basement - Room 020 - Yellow Mastic assoc. w. 12x12 Beige Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
42A 132402239-0094	Exterior - Across from Stair B - Exterior Gray Door Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
42B 132402239-0095	Exterior - Across from Stair I - Exterior Gray Door Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43A 132402239-0096	Courtyard - Exterior Black Window Caulk	Gray Non-Fibrous Homogeneous	2% Glass	98% Non-fibrous (Other)	None Detected
43B 132402239-0097	Front of Building - Exterior Black Window Caulk	Gray Non-Fibrous Homogeneous	2% Glass	98% Non-fibrous (Other)	None Detected
44A 132402239-0098	Front of Building - Exterior White Joint Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44B 132402239-0099	Front of Building - Exterior White Joint Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Kevin McKenzie (95)

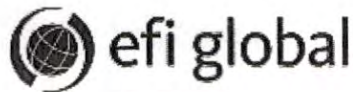
Steve Grise, Laboratory Manager
or Other Approved Signatory

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

Initial report from: 04/24/2024 16:54:56

132402239



BOSTON NORTH

BULK SAMPLE CHAIN OF CUSTODY FORM

Report to (Your Name):	Derrick Calvario	Bill To:	Accounts Payable
Company:	EFI Global, Inc.	Address:	Same
Address:	155 West Street Suite 6	City, State, Zip:	Same
City, State, Zip:	Wilmington, MA 01887	Telephone:	800-659-1202
		Fax:	978-688-5494
Project Information			
Project No. and Description:	014. 07795 - Lowell High School - Sullivan/Kouloucheras building		
Email Report to:	lyndal@efiglobal.com Derrick.Calvario@efiglobal.com		
Alternate (Your Email):			
Requested Turnaround Time:			
<input type="checkbox"/> 3hour	<input type="checkbox"/> 6 hour	<input type="checkbox"/> 1 day (24hr)	<input type="checkbox"/> 2 day (48hr)
		<input checked="" type="checkbox"/> 3 day (72 hr)	<input type="checkbox"/> 4 day (96 hr)
			<input type="checkbox"/> 1 week
			<input type="checkbox"/> 2 week
Media and Methodology			
Type of Analysis:	PLM		Check for Positive Stop: <input checked="" type="checkbox"/>
Notes:	Please analyze all plaster and joint compound samples.		

Sample ID	Type of Material	Location
01A	Core Base	2nd floor - near Stair D
01B	" "	3rd floor - near storage
02A	asph/fluor MASTIC	2nd floor - near Stair D
02B	" "	3rd floor - near storage
Next Page		

Total Number of Samples Submitted: 99 Date Collected: 4/18/24

Samplers Name: Derrick Calvario Samplers Signature: [Signature]

Relinquished By (EFI): [Signature] Date: 4/19/24 Time: —

Received By (Lab): [Signature] Date: APR 19 2024 Time: —



132402239

Sample ID	Type of Material	Location
03A	Green Carpet mastic on plywood	2nd floor - Room 232
03B	" "	2nd Floor - Room 207 B
04A	Plaster Skim Coat - Ceiling	2nd floor - Hallway outside Rm 232
04B	" "	2nd floor - Room 223
04C	" "	3rd Floor - Room 308
04D	" "	3rd Floor - Office off 304A
04E	" "	1st Floor - Room 105
04F	" "	Basement - Under Stair D
04G	" "	Basement - Hall by Stair C
05A	Plaster Base Coat - ceiling	2nd floor - Hallway outside Rm 232
05B	" "	2nd floor - Room 223
05C	" "	3rd Floor - Room 308
05D	" "	3rd Floor - Office off 304A
05E	" "	1st Floor - Room 105
05F	" "	Basement - Under Stair D
05G	" "	Basement - Hall by Stair C
06A	Yellow mastic on trim/baseboard	2nd floor - Hallway outside Rm 234
06B	" "	2nd Floor - Hallway Outside Rm 234
07A	Gypsum Board	2nd floor - room 208B
07B	" "	1st Floor - Custodian by Room 144
08A	Joint Compound	2nd floor - Room 223
08B	" "	2nd floor - Room 206C
08C	" "	3rd Floor - Room 308
08D	" "	1st Floor - Room 109
08E	" "	2nd Floor - Hall by Stair I
08F	" "	Basement - Room 016
08G	" "	Basement - betu/27+23
09A	Yellow stair tread mastic	2nd floor - stair B
09B	" "	3rd floor - Stair B
10A	12x12 Grey FT	2nd Floor - Room 207 B

RECD 8M APR 19 2024

EMSL-BOSTON



132402239

Sample ID	Type of Material	Location
10B	12x12 Grey FT	2nd Floor - Room 207B
11A	Mastic assoc. w/ Grey 12x12 FT	" "
11B	" "	" "
12A	Floor Lender assoc. w/ 12x12 Grey FT	" "
12B	" "	" "
13A	Yellow Carpet Mastic	" "
13B	" "	2nd Floor - Room 120
14A	Luxury Vinyl Plank Tile	2nd Floor - Stair B Landing
14B	" "	" "
15A	Ceramic wall tile phinset	2nd floor - near room 220
15B	" "	2nd Floor - Bathroom by Room 147
16A	Ceramic wall tile grout	2nd floor - near room 220
16B	" "	2nd Floor - Bathroom by Room 147
17A	Lab Bench	3rd Floor - Room 314
17B	" "	3rd Floor - Room 304A
18A	12x12 12x12 Dark Blue FT	3rd Floor - Room 314
18B	" "	3rd Floor - Room Hall by Room 305
19A	12x12 Wht FT	3rd Floor - Room 314
19B	" "	3rd Floor - Room Hall by Room 305
20A	12x12 Teal FT	3rd Floor - Room 314
20B	" "	3rd Floor - Hall by Room 305
21A	12x12 Light Blue FT	3rd Floor - Room 314
21B	" "	3rd Floor - Room Office off 304A
22A	12x12 Grey FT	3rd Floor - Room 314
22B	" "	3rd Floor - Room 314
23A	12x12 Dark Grey FT	3rd Floor - Room 314 closed
23B	" "	Basement - 027 Bathroom
24A	Yellow Mastic assoc. w/ 12x12 FT	3rd Floor - Room 314 ^{VOID}
24B	" "	Basement ^{DO NOT SAMPLE}
25A	Pinhole CT	3rd Floor - Room 306

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APR 15 2024

Sample ID	Type of Material	Location
25B	Pinhole CT	3rd Floor-Room 316
26A	Ceramic Floor Tile Grout	3rd Floor-Room 304A
26B	"	Basement-Storage/Old Bathroom
27A	Leveler assoc. w/ Ceramic Floor Tile	3rd Floor-Room 304A
27B	"	Basement-Storage/Old Bathroom
28A	Black Mastic assoc. w/ 12x12 Floor Tile	3rd Floor-Hall by Room 305
28B	"	"
29A	12x12 Grey w/ Smudge Floor Tile	4th Floor - Office Area
29B	"	"
30A	Mastic assoc. w/ 12x12 Grey w/ Smudge Floor Tile	"
30B	"	"
31A	Black Window Caulk	2nd Floor - Across from Stair B
31B	"	2nd Floor - Across from Stair I
32A	Whit Caulk on Wall	2nd Floor - Outside Room 147
32B	"	Basement-Storage/Old Bathroom
33A	Smooth Pinhole CT	VOID
33B	"	
34A	Large Crows Feet CT	Basement - Room 05
34B	"	Basement - Hall outside 023
35A	Small Crows Feet CT	Basement - Room 026
35B	"	Basement - Room 025
36A	Textured Pinhole CT	Basement - Hall by 014
36B	"	Basement - Room 020
37A	12x12 12x12 Beige Floor Tile	Basement - Room 012
37B	"	Basement - Room 020
38A	Rough Textured CT	Basement - Room 026
38B	"	"
39A	Grey Sink Undercoat	Basement - Room 017
39B	"	"
40A	Grey Mtl / Spec Vinyl Flooring	Basement - Room 017

REC'D

EMSL-BOSTON

APR 19 2024



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: 132402240

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Derrick Calvario

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Phone: (978) 688-3736

Fax: (978) 688-5494

Received Date: 04/19/2024 3:35 PM

Analysis Date: 04/24/2024

Collected Date: 04/17/2024

Project: 014.07795 - Lowell High School; Raymond J. Lord Academic Wing

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A 132402240-0001	3rd Floor - Outside Room 648 - 12x12 White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B 132402240-0002	1st Floor - Side Entrance by Café - 12x12 White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A 132402240-0003	3rd Floor - Room 657 - 12x12 Red Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B 132402240-0004	1st Floor - Slop Sink - 12x12 Red Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A 132402240-0005	2nd Floor - Outside Room 558 - 12x12 Gray Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B 132402240-0006	1st Floor - Slop Sink - 12x12 Gray Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04A 132402240-0007	2nd Floor - Outside Room 558 - Cove Base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B 132402240-0008	3rd Floor - Outside Room 658 - Cove Base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A 132402240-0009	2nd Floor - Outside Room 558 - Cove Base Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B 132402240-0010	3rd Floor - Outside Room 658 - Cove Base Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A 132402240-0011	3rd Floor - Hallway Outside 648 - Crows Feet CT	Gray/Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
07B 132402240-0012	3rd Floor - Room 646 - Crows Feet CT	Gray/Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
08A 132402240-0013	3rd Floor - Outside Room 629 - Pinhole CT	Tan/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
08B 132402240-0014	1st Floor - Kitchen - Pinhole CT	Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
09A 132402240-0015	2nd Floor - Room Outside School Store - Small Crows Feet CT	Gray/Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected

Initial report from: 04/24/2024 16:39:17



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EMSL Order: 132402240

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
09B 132402240-0016	3rd Floor - Room 652 - Small Crows Feet CT	Gray/Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
10A 132402240-0017	2nd Floor - Outside Room 158 - Yellow Mastic assoc. w. 12x12 Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10B 132402240-0018	1st Floor - Side Entrance by Café - Yellow Mastic assoc. w. 12x12 Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11A 132402240-0019	1st Floor - Cafeteria - Brown Window Caulk	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11B 132402240-0020	3rd Floor - Room 652 - Brown Window Caulk	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12A 132402240-0021	3rd Floor - Outside Room 648 - Brown Caulk on Brick Wall	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12B 132402240-0022	3rd Floor - Outside Room 648 - Brown Caulk on Brick Wall	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13A 132402240-0023	1st Floor - Cafeteria - White Caulk on CMU Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13B 132402240-0024	3rd Floor - Room 652 - White Caulk on CMU Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A 132402240-0025	1st Floor - Cafeteria - 12x12 White w. Blue Spec Floor Tile	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14B 132402240-0026	1st Floor - Cafeteria - 12x12 White w. Blue Spec Floor Tile	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15A 132402240-0027	1st Floor - Cafeteria - 12x12 Dark Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15B 132402240-0028	1st Floor - Cafeteria - 12x12 Dark Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16A 132402240-0029	1st Floor - Cafeteria - 12x12 Light Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16B 132402240-0030	1st Floor - Cafeteria - 12x12 Light Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17A 132402240-0031	1st Floor - Cafeteria - 12x12 Gray Floor Tile	Gray/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17B 132402240-0032	1st Floor - Cafeteria - 12x12 Gray Floor Tile				Not Submitted
18A 132402240-0033	1st Floor - Cafeteria - Mastic assoc. w. FT in Café				Not Submitted

Initial report from: 04/24/2024 16:39:17



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

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EMSL Order: 132402240

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
18B	1st Floor - Cafeteria - Mastic assoc. w. FT in Café				Not Submitted
132402240-0034					
19A	1st Floor - Kitchen - 12x12 Maroon FT	Red/Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0035					
19B	1st Floor - Kitchen - 12x12 Maroon FT	Red/Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0036					
20A	1st Floor - Kitchen - 12x12 Pink FT	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0037					
20B	1st Floor - Kitchen - 12x12 Pink FT	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0038					
21A	1st Floor - Kitchen - 12x12 Gray w. Spec FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0039					
21B	1st Floor - Kitchen - 12x12 Gray w. Spec FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0040					
22A	1st Floor - Kitchen - 12x12 Gray w. Smudge FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0041					
22B	1st Floor - Kitchen - 12x12 Gray w. Smudge FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0042					
23A	1st Floor - Kitchen - Black Mastic assoc. w. FT in Kitchen	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0043					
24B	1st Floor - Kitchen - Black Mastic assoc. w. FT in Kitchen	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0044					
27A	1st Floor - Nurse - 12x12 Beige w. Spec FT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0045					
27B	1st Floor - Nurse - 12x12 Beige w. Spec FT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0046					
28A	1st Floor - Nurse - Mastic assoc. w. Beige w. Spec FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0047					
28B	1st Floor - Nurse - Mastic assoc. w. Beige w. Spec FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0048					
29A	3rd Floor - Outside Room 648 - Leveler assoc. w. 12x12 White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0049					
29B	3rd Floor - Outside Room 648 - Leveler assoc. w. 12x12 White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0050					
30A	3rd Floor - Outside Room 629 - Spray-on Fireproofing - Ceiling	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
132402240-0051					

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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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
30B <small>132402240-0052</small>	3rd Floor - Outside Room 652 - Spray-on Fireproofing - Ceiling	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
30C <small>132402240-0053</small>	2nd Floor - Outside Stair 5 - Spray-on Fireproofing	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
30D <small>132402240-0054</small>	2nd Floor - Outside Stair 5 - Spray-on Fireproofing	Gray Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30E <small>132402240-0055</small>	1st Floor - Outside Stair 5 - Spray-on Fireproofing	Gray Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30F <small>132402240-0056</small>	1st Floor - Outside Stair 5 - Spray-on Fireproofing	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
30G <small>132402240-0057</small>	1st Floor - Outside Stair 5 - Spray-on Fireproofing	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
31A <small>132402240-0058</small>	3rd Floor - Lab B - Lab Bench	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31B <small>132402240-0059</small>	3rd Floor - Lab B - Lab Bench	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32A <small>132402240-0060</small>	2nd Floor - Hall Outside School Store - Gray Vinyl Sheet Flooring	Gray/Tan Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
32B <small>132402240-0061</small>	2nd Floor - Hall Outside School Store - Gray Vinyl Sheet Flooring	Gray/Tan Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
33A <small>132402240-0062</small>	2nd Floor - Hall Outside School Store - Blue Mastic assoc. w. Vinyl Sheet Flooring	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33B <small>132402240-0063</small>	2nd Floor - Hall Outside School Store - Blue Mastic assoc. w. Vinyl Sheet Flooring	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34A <small>132402240-0064</small>	2nd Floor - Hallway near 527 - Gypsum Board	Brown/Gray Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
34B <small>132402240-0065</small>	1st Floor - Hallway behind Kitchen - Gypsum Board	Brown/Gray Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
35A <small>132402240-0066</small>	2nd Floor - Hallway near 527 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35B <small>132402240-0067</small>	1st Floor - Hallway behind Kitchen - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35C <small>132402240-0068</small>	1st Floor - Hall Outside Nurse - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35D	1st Floor - Outside	White		100% Non-fibrous (Other)	None Detected
132402240-0069	Stair 5 - Joint Compound	Non-Fibrous Homogeneous			
35E	3rd Floor - Room 644 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0070					
35F	3rd Floor - Room 654 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0071					
35G	3rd Floor - Room 624 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0072					
36A	2nd Floor - Outside Stair 5 - Red Fire Stop	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0073					
36B	2nd Floor - Outside Stair 5 - Red Fire Stop	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0074					
37A	1st Floor - Kitchen - Yellow Mastic assoc. w. FT in Kitchen	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0075					
37B	1st Floor - Kitchen - Yellow Mastic assoc. w. FT in Kitchen	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0076					
38A	1st Floor - Kitchen - 12x12 Magenta FT in Kitchen	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0077					
38B	1st Floor - Kitchen - 12x12 Magenta FT in Kitchen	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0078					
39A	1st Floor - Kitchen - Grout assoc. w. Ceramic FT in Kitchen	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0079					
39B	1st Floor - Kitchen - Grout assoc. w. Ceramic FT in Kitchen	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0080					
40A	1st Floor - Cafeteria - White Window Caulk under Silicone	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0081					
40B	1st Floor - Cafeteria - White Window Caulk under Silicone	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0082					
41A	3rd Floor - Stair 5 Landing - Gray Vinyl Sheet Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0083					
41B	1st Floor - Stair 5 Landing - Gray Vinyl Sheet Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0084					
42A	3rd Floor - Stair 5 Landing - Mastic assoc. w. Gray Vinyl Sheet Flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0085					
42B	1st Floor - Stair 5 Landing - Mastic assoc. w. Gray Vinyl Sheet Flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132402240-0086					

Initial report from: 04/24/2024 16:39:17



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: 132402240

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
43A 132402240-0087	2nd Floor - Bridge by Room 548 - Brown Caulk on Bridge	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43B 132402240-0088	2nd Floor - Bridge by Room 548 - Brown Caulk on Bridge	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44A 132402240-0089	2nd Floor - Bridge by Room 548 - Sheet Flooring on Bridge	Gray/White Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
44B 132402240-0090	2nd Floor - Bridge by Room 548 - Sheet Flooring on Bridge	Gray/White Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
45A 132402240-0091	2nd Floor - Bridge by Room 548 - Mastic assoc. w. Bridge Sheet Flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45B 132402240-0092	2nd Floor - Bridge by Room 548 - Mastic assoc. w. Bridge Sheet Flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46A 132402240-0093	2nd Floor - Women's Bath by Stair 5 - Grout assoc. w. Ceramic Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46B 132402240-0094	3rd Floor - Women's Bath by Stair 5 - Grout assoc. w. Ceramic Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47A 132402240-0095	Exterior near Door #4 - Exterior Black Door Caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47B 132402240-0096	Exterior near Door #4 - Exterior Black Door Caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48A 132402240-0097	Exterior near Door #4 - Exterior Red Caulk on Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48B 132402240-0098	Exterior near Door #4 - Exterior Red Caulk on Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
49A 132402240-0099	Exterior near Door #4 - Exterior Black Window Caulk	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
49B 132402240-0100	Exterior near Door #4 - Exterior Black Window Caulk				Positive Stop (Not Analyzed)
50A 132402240-0101	Exterior near Door #4 - Exterior White Caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
50B 132402240-0102	Exterior near Door #4 - Exterior White Caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



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EMSL Order: 132402240

Customer ID: EAFI66

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Project ID:

Analyst(s)

Ava Kopellas (45)

John McCarthy (53)

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

Initial report from: 04/24/2024 16:39:17



efi global

132402240

BOSTON NORTH

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

BULK SAMPLE CHAIN OF CUSTODY FORM

Report to (Inspector Name):	Derrick Calvano	Bill To:	Accounts Payable
Company:	EFI Global, Inc.	Address:	Same
Address:	155 West Street	City, State, Zip:	Same
	Suite 6	Telephone:	800-659-1202
City, State, Zip:	Wilmington, MA 01887	Email:	US-EFIGlobal-BostonEnviroPC@efiglobal.com
Inspector Cell:	781-825-5012		

Project Information

Project No./ Description:	014.07795 - Lowell High School - Raymond J. Lae Academic Wing
Email Report to:	Derrick.Calvano@efiglobal.com
Alternate:	

Requested Turnaround Time:

<input type="checkbox"/> RUSH (6hr)	<input type="checkbox"/> 1 day (24hr)	<input type="checkbox"/> 2 day (48hr)	<input checked="" type="checkbox"/> 3 day (72hr)	<input type="checkbox"/> 5 day
--	--	--	---	--------------------------------

Media and Methodology

Type of Analysis:	PLM	Check for Positive Stop:	<input checked="" type="checkbox"/>
Notes:	Analyze all plaster and joint compound samples	Date Collected:	4/17/24

Sample ID	Type of Material	Location
01A	12x12 Wht Floor Tile	3rd Floor - Outside Room 658
01B	"	2nd Floor - Side Entrance by Cafe
02A	12x12 Red Floor Tile	3rd Floor - Room 657
02B	"	2nd Floor - Slop Sink
03A	12x12 Grey Floor Tile	2nd Floor - Outside Room 558
03B	"	2nd Floor Slop Sink
04A	Corebase	2nd Floor - Outside Room 558
04B	"	3rd Floor - Outside Room 658
05A	Corebase Adhesive	2nd Floor - Outside Room 558
05B	"	3rd Floor - Outside Room 658

Total Number of Samples Submitted: 108

Samplers Name: Derrick Calvano Samplers Signature:

Relinquished By (Client): Date: 4/19/24 Time:

Received By (Lab): Date: Time:

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APR 19 2024

Page 1 Of 5



132402240

Sample ID	Type of Material	Location
06A	Black Window Caulk	2nd Floor - Room 552
06B	"	VOID
07A	Crows Feet CT	3rd Floor - Hallway Outside 648
07B	"	3rd Floor - Room 646
08A	Pinhole CT	3rd Floor - Outside Room 629
08B	"	1st Floor - Kitchen
09A	Small Crows Feet CT	2nd Floor - Room Outside School
09B	"	3rd Floor - Room 652
10A	Yellow Mastic assoc. w/ Floor Tile	2nd Floor - Outside Room 158
10B	"	1st Floor - Side Entrance by Cafe
11A	Brown Window Caulk	1st Floor - Cafeteria
11B	"	3rd Floor - Room 652
12A	Brown Caulk on Brick Wall	3rd Floor - Outside Room 648
12B	"	"
13A	White Caulk on CMU Wall	1st Floor - Cafeteria
13B	"	3rd Floor - Room 652
14A	12x12 Wht w/ Blue Spec. Floor Tile	1st Floor - Cafeteria
14B	"	"
15A	12x12 ^{Dark} Blue Floor Tile	"
15B	"	"
16A	12x12 Light Blue Floor Tile	"
16B	"	"
17A	12x12 Grey Floor Tile	"
17B	"	"
18A	Mastic assoc. in Cafe	"
18B	"	"
19A	12x12 Maroon FT	1st Floor - Kitchen
19B	"	"
20A	12x12 Pink FT	"
20B	"	"

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APR 19 2024

Sample ID	Type of Material	Location
21A	12x12 Grey w/ Spec FT	2nd Floor - Kitchen
21B	"	"
22A	12x12 Grey w/ Smudge FT	2nd Floor - Kitchen
22B	"	"
23A	Black Mastie assoc. w/ FT in Kitchen	"
24B	"	"
25A	Grout assoc. w/ Ceramic FT	
25B	"	
26A	Thin set assoc. w/ Ceramic FT	
26B	"	
27A	12x12 Beige w/ Spec FT	2nd Floor - Nurse
27B	"	"
28A	Mastic assoc. w/ Beige w/ Spec FT	"
28B	"	"
29A	Leveler assoc. w/ 12x12 Whit Floor Tile	3rd Floor - Outside Room 648
29B	"	"
30A	Spray on Fire Proofing - Ceilings	3rd Floor - Outside Room 629
30B	" - Ceiling	3rd Floor - Outside Room 652
30C	"	2nd Floor - Outside Stair 5
30D	"	2nd Floor - Outside Stair 5
30E	"	2nd Floor - Outside Stair 5
30F	"	"
30G	"	"
31A	Lab Bench	3rd Floor - Lab B
31B	"	"
32A	Grey Vinyl Sheet Flooring	2nd Floor - Hall Outside School Store
32B	"	"
33A	Blue Mastie assoc. w/ Vinyl Sheet Flooring	2nd Floor - Hall Outside School Store
33B	"	"
34A	Gypsum Board	2nd Floor - Hallway Near 527

Sample ID	Type of Material	Location
34B	Gypsum Board	2nd Floor - Hallway Behind Kitchen
35A	Joint Compound	2nd Floor - Hallway Near 527
35B	"	2nd Floor - Hallway Behind Kitchen
35C	"	2nd Floor - Hall Outside Nurse
35D	"	2nd Floor - Outside Stair 5
35E	"	3rd floor - Room 644
35F	"	↓ - Room 654
35G	"	↓ - Room 624
36A	Red Fire Stop	2nd Floor - Outside Stair 5
36B	"	" "
37A	Yellow Mastic assoc w/ FT in Ktche	2nd Floor - Kitchen
37B	"	" "
38A	12x12 Mosaic FT in Kitchen	" "
38B	"	" "
39A	Grout assoc. w/ Ceramic FT in Kitchen	2nd Floor - Kitchen
39B	"	"
40A	Wht Window Caulk under Silicone	2nd Floor - Cafeteria
40B	"	" "
41A	Gray Vinyl Sheet Flooring	3rd Floor - Stair 5 Landing
41B	"	2nd Floor - " "
42A	Mastic assoc. w/ Grey Vinyl Sheet Flooring	3rd Floor - Stair 5 Landing
42B	"	2nd Floor - " "
43A	Brown Caulk on Bridge	2nd Floor - Bridge by Room 548
43B	"	" "
44A	Sheet Flooring on Bridge	" "
44B	"	" "
45A	Mastic assoc. w/ Bridge Sheet Flooring	" "
45B	"	" "
46A	Grout assoc. w/ Ceramic Tile	2nd Floor - Women's Bath by Stair 5
46B	"	3rd Floor - " "

Ignore Cross out - Please analyze

Page 5 Of 5



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

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

EMSL Order: 132402235

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Derrick Calvario

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Phone: (978) 688-3736

Fax: (978) 688-5494

Received Date: 04/19/2024 3:35 PM

Analysis Date: 04/24/2024 - 05/01/2024

Collected Date: 04/18/2024

Project: 014.07795 - Lowell High School; Freshman Academy

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A 132402235-0001	Basement - Hallway near 700 - Gypsum Board	Brown/White Fibrous Homogeneous	12% Cellulose 2% Glass	86% Non-fibrous (Other)	None Detected
01B 132402235-0002	2nd/3rd Floor - Staircase Rear - Gypsum Board	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
02A 132402235-0003	Basement - Hallway near Café - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B 132402235-0004	1st Floor - Room 717 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02C 132402235-0005	2nd Floor - Hallway near Room 811 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02D 132402235-0006	2nd Floor - Room 911 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02E 132402235-0007	2nd Floor - Room 819 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02F 132402235-0008	2nd/3rd Floor - Staircase Rear - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02G 132402235-0009	3rd Floor - Hallway near 850 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A 132402235-0010	Basement - near Café - Corner Bead Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B 132402235-0011	Basement - near Café - Corner Bead Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04A 132402235-0012	Basement - Café - White Window Caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B 132402235-0013	2nd Floor - Room 910 - White Window Caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A 132402235-0014	Basement - Room 702 - Pin/Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
05B 132402235-0015	2nd Floor - Hall Outside 911 - Pin/Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
06A 132402235-0016	Basement - Room 703 - Cove Base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 05/01/2024 11:20:06 Replaces initial report from: 04/24/2024 16:06:08 Reason Code: Data Entry-Change to Appearance



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EMSL Order: 132402235

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
06B 132402235-0017	2nd Floor - Room 908 - Cove Base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A 132402235-0018	Basement - Room 703 - Assoc. Tan Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07B 132402235-0019	2nd Floor - Room 908 - Assoc. Tan Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08A 132402235-0020	Basement - Hallway Outside Theater - Black Stair Tread Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08B 132402235-0021	Basement - Hallway Outside Theater - Black Stair Tread Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09A 132402235-0022	Basement - John St. Door - Interior Black Caulk on Exterior Door	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B 132402235-0023	Basement - John St. Door - Interior Black Caulk on Exterior Door	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10A 132402235-0024	Basement - John St. Lobby - Yellow Tread Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10B 132402235-0025	1st/2nd Floor - John St. Lobby - Yellow Tread Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11A 132402235-0026	1st Floor - Room 724 - White Sink Undercoat	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
11B 132402235-0027	2nd Floor - Room 909 - White Sink Undercoat	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
12A 132402235-0028	2nd Floor - Hallway Outside Room 811 - 12x12 Tan w. Tan Spec Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12B 132402235-0029	3rd Floor - Room 850 - 12x12 Tan w. Tan Spec Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13A 132402235-0030	2nd Floor - Room 901 - 12x12 Beige w. Tan Spec Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13B 132402235-0031	3rd Floor - Hallway Center - 12x12 Beige w. Tan Spec Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A 132402235-0032	2nd Floor - Room 901 - Assoc. Black Mastic w. Tan/Beige Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14B 132402235-0033	3rd Floor - Room 901 - Assoc. Black Mastic w. Tan/Beige Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 05/01/2024 11:20:06 Replaces initial report from: 04/24/2024 16:06:08 Reason Code: Data Entry-Change to Appearance



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EMSL Order: 132402235

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
15A 132402235-0034	2nd Floor - Room 902 - Crows Feet Ceiling Tile	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
15B 132402235-0035	3rd Floor - Room 851 - Crows Feet Ceiling Tile	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (Other)	None Detected
16A 132402235-0036	2nd Floor - Room 901 - Lab Bench	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16B 132402235-0037	2nd Floor - Room 901 - Lab Bench	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17A 132402235-0038	2nd Floor - Room 906 - 12x12 Light Gray w. Gray Spec Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17B 132402235-0039	2nd Floor - Room 904 - 12x12 Light Gray w. Gray Spec Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18A 132402235-0040	2nd Floor - Room 906 - Yellow Mastic assoc. w. Gray w. Gray Spec Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18B 132402235-0041	2nd Floor - Room 904 - Yellow Mastic assoc. w. Gray w. Gray Spec Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19A 132402235-0042	2nd Floor - Womens Room - Ceramic Tile Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19B 132402235-0043	2nd Floor - Mens Room - Ceramic Tile Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20A 132402235-0044	3rd Floor - Room 856 - 12x12 Red Floor Tile w. White Spec				Not Submitted
20B 132402235-0045	3rd Floor - Room 856 - 12x12 Red Floor Tile w. White Spec				Not Submitted
21A 132402235-0046	3rd Floor - Room 856 - Assoc. Mastic				Not Submitted
21B 132402235-0047	3rd Floor - Room 856 - Assoc. Mastic				Not Submitted
22A 132402235-0048	3rd Floor - Room 855 - 12x12 White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22B 132402235-0049	3rd Floor - Room 855 - 12x12 White Floor Tile				Not Submitted
23A 132402235-0050	3rd Floor - Room 855 - Assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23B 132402235-0051	3rd Floor - Room 855 - Assoc. Yellow Mastic				Not Submitted

Report amended: 05/01/2024 11:20:06 Replaces initial report from: 04/24/2024 16:06:08 Reason Code: Data Entry-Change to Appearance



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EMSL Order: 132402235

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
24A 132402235-0052	3rd Floor - Room 855 - Assoc. Black Mastic under Yellow Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24B 132402235-0053	3rd Floor - Room 855 - Assoc. Black Mastic under Yellow Mastic				Not Submitted
25A 132402235-0054	3rd Floor - Hallways near 854 - Floor Leveler	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25B 132402235-0055	3rd Floor - Hallways near 854 - Floor Leveler				Not Submitted
26A 132402235-0056	3rd Floor - Hallway near Room 854 - 12x12 Tan Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26B 132402235-0057	2nd Floor- Stair Landing near 810 - 12x12 Tan Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27A 132402235-0058	3rd Floor - Hallway near Room 854 - Assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27B 132402235-0059	2nd Floor- Stair Landing near 810 - Assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28A 132402235-0060	3rd Floor - Room 854 - 12x12 Red Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28B 132402235-0061	3rd Floor - Room 854 - 12x12 Red Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29A 132402235-0062	3rd Floor - Room 854 - Assoc. Black Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29B 132402235-0063	3rd Floor - Room 854 - Assoc. Black Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30A 132402235-0064	3rd Floor - Room 854 - White Floor Leveler under Red Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30B 132402235-0065	3rd Floor - Room 854 - White Floor Leveler under Red Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31A 132402235-0066	3rd Floor - Room 854 - Assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31B 132402235-0067	3rd Floor - Room 854 - Assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32A 132402235-0068	1st Floor - Hallway near 712 - 12x12 White w. Blue/Orange Spec Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32B 132402235-0069	1st Floor - Cafeteria - 12x12 White w. Blue/Orange Spec Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 05/01/2024 11:20:06 Replaces initial report from: 04/24/2024 16:06:08 Reason Code: Data Entry-Change to Appearance



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: 132402235

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
33A 132402235-0070	1st Floor - Hallway near 712 - 12x12 White w. Blue/Orange Spec Floor Tile assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33B 132402235-0071	1st Floor - Cafeteria - 12x12 White w. Blue/Orange Spec Floor Tile assoc. Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34A 132402235-0072	1st Floor - Hallway near 712 - Leveler under 12x12 White w. Orange/Blue	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34B 132402235-0073	1st Floor - Hallway near 712 - Leveler under 12x12 White w. Orange/Blue	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35A 132402235-0074	1st Floor - Hallway near 712 - Assoc. Black Mastic on Leveler	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35B 132402235-0075	1st Floor - Hallway near 712 - Assoc. Black Mastic on Leveler	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36A 132402235-0076	1st Floor - Hallway near 712 - 2nd Layer Floor Leveler	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36B 132402235-0077	1st Floor - Hallway near 712 - 2nd Layer Floor Leveler	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37A 132402235-0078	Basement - Café - Interior Door Frame White Caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37B 132402235-0079	Basement - Hallway Outside Theater - Interior Door Frame White Caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38A 132402235-0080	Basement - Hallway Outside Café - Ceramic Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38B 132402235-0081	Basement - Hallway Outside Café - Ceramic Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
39A 132402235-0082	Basement - Hallway Outside Café - 1x1 Ceiling Tile	Gray/White Non-Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
39B 132402235-0083	Basement - Hallway Outside Café - 1x1 Ceiling Tile	Gray/White Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
40A 132402235-0084	Rear Door - Exterior Black Door Caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
40B 132402235-0085	Door #4 - Exterior Black Door Caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 05/01/2024 11:20:06 Replaces initial report from: 04/24/2024 16:06:08 Reason Code: Data Entry-Change to Appearance



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

EMSL Order: 132402235

Customer ID: EAFI66

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
41A	Paige Street Side Window - Exterior	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402235-0086	Black Window	Homogeneous			
41B	Window by Door #3 - Exterior Black	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132402235-0087	Window	Homogeneous			

Analyst(s)

John McCarthy (79)

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

Report amended: 05/01/2024 11:20:06 Replaces initial report from: 04/24/2024 16:06:08 Reason Code: Data Entry-Change to Appearance



efi global

132402235

BOSTON NORTH

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

BULK SAMPLE CHAIN OF CUSTODY FORM

Report to (Inspector Name):	Derrick Calvario	Bill To:	Accounts Payable
Company:	EFI Global, Inc.	Address:	Same
Address:	155 West Street Suite 6	City, State, Zip:	Same
City, State, Zip:	Wilmington, MA 01887	Telephone:	800-659-1202
Inspector Cell:	781-825-5012	Email:	US-EFIGlobal-BostonEnviroPC@efiglobal.com
Project Information			
Project No./ Description:	014,07795 - Lowell High School - Freshman Academy		
Email Report to:	Derrick.Calvario@efiglobal.com		
Alternate:			
Requested Turnaround Time:			
<input type="checkbox"/> RUSH (6hr)	<input type="checkbox"/> 1 day (24hr)	<input type="checkbox"/> 2 day (48hr)	<input checked="" type="checkbox"/> 3 day (72hr)
<input type="checkbox"/> 5 day			
Media and Methodology			
Type of Analysis:	PLM	Check for Positive Stop:	<input checked="" type="checkbox"/>
Notes:	Analyze all plaster and joint compound samples	Date Collected:	4/18/24

Sample ID	Type of Material	Location
01A	Gypsum Board	Basement - Hallway near 200
01B	" "	2nd/3rd floor - Staircase near
02A	Joint Compound	Basement - Hallway near Cafe
02B	" "	1st floor - Room 717
02C	" "	2nd floor - Hallway near Rm 811
02D	" "	2nd floor - Room 911
02E	" "	2nd floor - Room 819
02F	" "	2nd/3rd floor - Staircase near
02G	" "	3rd floor - Hallway near 850

Total Number of Samples Submitted: 87

Samplers Name: Derrick Calvario

Samplers Signature

Relinquished By (Client):

Date: 4/19/24 Time: 15:35

Received By (Lab):

Date: Time:

REC'D 8M 1535
 EMSL-BOSTON APR 19 2024
 walwin

Sample ID	Type of Material	Location
03A	Coner bead Yellow mastic	Basement - near Cafe
03B	" "	" "
04A	White window Caulk	Basement - Cafe
04B	" "	2nd floor - Room 910
05A	Pin/fissure Ceiling tile	Basement - Room 702
05B	" "	2nd Floor - Hall Outside 911
06A	Cove base	Basement - Room 703
06B	" "	2nd floor - Room 908
07A	associated tan mastic	Basement - Room 703
07B	" "	2nd floor - Room 908
08A	Black Stair tread mastic	Basement - Hallway outside theater
08B	" "	" - " "
09A	Black Caulk on exterior door	Basement - John St. door
09B	" "	" "
10A	Yellow tread mastic	Basement - John St. lobby
10B	" "	2nd floor - " "
11A	White Sink under Coat	1st floor - 724
11B	" "	2nd floor - Room 909
12A	12x12 Tan w/ tan spec floor tile	2nd floor - Hallway outside Rm 811
12B	" "	3rd floor - Room 850
13A	12x12 Beige w/ tan spec floor tile	2nd floor - Room 901
13B	" "	3rd floor - Hallway Center
14A	associated black mastic with tan/beige tile	2nd floor - Room 901
14B	" "	3rd floor - Room 901
15A	Crows feet Ceiling tile	2nd floor - Room 902
15B	" "	3rd floor - Room 851
16A	Lab bench	2nd floor - Room 901
16B	" "	" "
17A	12x12 light grey w/ spec floor tile	2nd floor - Room 906
17B	" "	2nd floor - Room 904

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EMSL-BOSTON APR 19 2024



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132402235

Sample ID	Type of Material	Location
18A	Yellow mastic associated w/ grey tile w/ grey spec	2nd floor - Room 906
18B	" "	2nd floor - Room 904
19A	Ceramic tile grout	2nd floor - women's room
19B	" "	2nd floor - mens room
20A	12x12 red floor tile w/ white spec	3rd floor - Room 856
20B	" "	" "
21A	associated mastic	" "
21B	" "	" "
22A	12x12 white floor tile	3rd floor - Room 855
22B	" "	
23A	associated yellow mastic	
23B	" "	
24A	associated black mastic under yellow mastic	
24B	" "	
25A	floor leveler	3rd floor - H allways near 854
25B	" "	" "
26A	12x12 tan floor tile	3rd floor - Hallway near Rm 854
26B	" "	2nd floor - stair Landing Near 80
27A	associated yellow mastic	3rd floor - Hallway near Rm 854
27B	" "	2nd floor - stair Landing Near 810
28A	12x12 red floor tile	3rd floor - Room 854
28B	" "	" "
29A	associated black floor tile	" "
29B	" "	" "
30A	white floor leveler under red tile	" "
30B	" "	" "
31A	associated yellow mastic	" "
31B	" "	" "
32A	12x12 white w/ blue/orange spec floor tile	1st floor - ^{Hallway} near 712
32B	" "	2nd floor - Cafeteria

REC'D

EMSL-BOSTON

APR 19 2024

REC'D 511
EMSL-BOSTON APR 19 2024



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: 132402611

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Derrick Calvario

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.07795 - Lowell High School

Phone: (978) 688-3736

Fax: (978) 688-5494

Received Date: 05/08/2024 5:00 PM

Analysis Date: 05/13/2024

Collected Date: 05/08/2024

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A 132402611-0001	Sullivan Building Room 305 (Hall) - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B 132402611-0002	Sullivan Building Room 305 (Hall) - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A 132402611-0003	Raymond J Lord - Cafeteria - 12x12 Gray Floor Tile	Gray/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A 132402611-0004	Raymond J Lord - Cafeteria - Yellow Tile Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B 132402611-0005	Raymond J Lord - Cafeteria - Yellow Tile Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04A 132402611-0006	Room 856 - Freshman Academy - 12x12 Red w. White Speck Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B 132402611-0007	Room 856 - Freshman Academy - 12x12 Red w. White Speck Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A 132402611-0008	Room 856 - Freshman Academy - Assoc. Black Mastic	Tan/Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B 132402611-0009	Room 856 - Freshman Academy - Assoc. Black Mastic	Tan/Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06A 132402611-0010	Freshman Academy Room 855 - 12x12 White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A 132402611-0011	Freshman Academy Room 855 - Assoc. Yellow Mastic	Gray/Yellow/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08A 132402611-0012	Freshman Academy Room 855 - Black Mastic under Yellow Mastic	Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09A 132402611-0013	Freshman Academy Room 855 - Leveler	Gray/Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2024 15:41:59



EMSL Analytical, Inc.

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EMSL Order: 132402611

Customer ID: EAFI66

Customer PO:

Project ID:

Analyst(s)

Ava Kopellas (13)

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

Initial report from: 05/13/2024 15:41:59



132402611

BOSTON NORTH

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

BULK SAMPLE CHAIN OF CUSTODY FORM

Report to (Inspector Name):	Derrick Calvario	Bill To:	Accounts Payable
Company:	EFI Global, Inc.	Address:	Same
Address:	155 West Street Suite 6	City, State, Zip:	Same
City, State, Zip:	Wilmington, MA 01887	Telephone:	800-659-1202
Inspector Cell:	781-825-5012	Email:	US-EFIGlobal-BostonEnviroPC@efiglobal.com
Project Information			
Project No./ Description:	014. 67795 - Lowell High School		
Email Report to:	Denton Derrick. Calvario @ efiglobal.com		
Alternate:			
Requested Turnaround Time:			
<input type="checkbox"/> RUSH (6hr)	<input type="checkbox"/> 1 day (24hr)	<input type="checkbox"/> 2 day (48hr)	<input checked="" type="checkbox"/> 3 day (72hr)
<input type="checkbox"/> 5 day			
Media and Methodology			
Type of Analysis:	PCM	Check for Positive Stop:	<input checked="" type="checkbox"/>
Notes:	Analyze all plaster and joint compound samples	Date Collected:	5/8/24

Sample ID	Type of Material	Location
01A	Hallway Black mastic	Sumner building Rm 305 (hall)
01B	" "	" "
02A	12x12 grey floor tile	Raymond J Ladd - Cortetata
02B	" VOID. This one	" Sample
03A	yellow tile mastic	" "
03B	" "	" "
04A	12x12 Red w/ white speck floor tile	Rm 886 - Sumner Freshman Academy
04B	" "	" "
05A	associated black mastic	" "
05B	" "	" "

Total Number of Samples Submitted: 13

Samplers Name: Derrick Calvario Samplers Signature:

Relinquished By (Client): Date: _____ Time: _____

Received By (Lab): _____ Date: _____ Time: _____

Page 2 of 2

ATTACHMENT D

LICENSES AND TRAINING CERTIFICATES OF ASBESTOS INSPECTOR & MANAGEMENT PLANNER



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

Michael Flanagan
Director

ASBESTOS INSPECTOR

DERRICK W. CALVARIO

Eff.Date: 11/03/2023

Exp.Date: 11/02/2024

AI900703

Member C.O.N.E.S.

WB - NEW

24





This is to certify that

Derrick W. Calvario

39 Valleywood Road, Hopkinton, MA 01748
MA DLS Asbestos Inspector License# AI900703



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

Asbestos Inspector Refresher

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

Course Location

Zoom Video Conference

Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

August 3, 2023

Course Dates

23-4811-106-265405

Certificate Number

August 03, 2023

Examination Date

August 03, 2024

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

Michael Flanagan
Director

ASBESTOS MANAGEMENT PLANNER

MICHAEL MCCARTER

Eff.Date: 09/08/2023

Exp.Date: 09/07/2024

AP035661

Member C.O.N.E.S.



24



This is to certify that

Michael L. McCarter

7 Millstone Road, Windham, NH 03087

MA DLS Asbestos Management Planner License# AP035661



*has completed the requisite training by Video Conference, and has passed an examination for
reaccreditation*

Asbestos Management Planner 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

March 21, 2024

Course Dates

24-5264-136-219102

Certificate Number

March 21, 2024

Examination Date

March 21, 2025

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION