

February 6, 2023

Ms. Christina Dell Angelo Dore & Whittier Architects 260 Merrimac Street Newburyport, MA 01950

 Reference:
 Hazardous Materials Determination Survey

 Fox Hill Elementary School, Burlington, MA

Dear Ms. Angelo:

Thank you for the opportunity for Universal Environmental Consultants (UEC) to provide professional services.

Enclosed please find the report for hazardous materials determination survey at Fox Hill Elementary School, Burlington, MA.

Please do not hesitate to call should you have any questions.

Very truly yours,

Universal Environmental Consultants

Ammar M. Dieb President

UEC:\223 030.00\Report.DOC

Enclosure

REPORT FOR HAZARDOUS MATERIALS DETERMINATION SURVEY AT THE FOX HILL ELEMENTARY SCHOOL BURLINGTON, MASSACHUSETTS

PROJECT NO: 223 030.00

Survey Date: January 30, 2023

SURVEY CONDUCTED BY:

UNIVERSAL ENVIRONMENTAL CONSULTANTS 12 BREWSTER ROAD FRAMINGHAM, MA 01702

INTRODUCTION:

UEC has been providing comprehensive asbestos services since 2001 and has completed projects throughout New England. We have completed projects for a variety of clients including commercial, industrial, municipal, and public and private schools. We maintain appropriate asbestos licenses and staff with a minimum of thirty-three years of experience.

UEC was contracted by Dore & Whittier Architects to conduct the following services at the Fox Hill Elementary School, Burlington, MA:

- Inspection and Testing for Asbestos Containing Materials (ACM).
- Inspection for Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures.
- Inspection for PCB's-Caulking.
- Inspection for Lead Based Paint (LBP).
- Airborne Mold inspection and sampling.
- Radon sampling.
- Mercury in Rubber Flooring inspection and sampling.

<u>A comprehensive survey per the Environmental Protection Agency (EPA) NESHAP regulation would be</u> required prior to any renovation or demolition activities.

The scope of work included the inspection of accessible ACM, collection of bulk samples from materials suspected to contain asbestos, determination of types of ACM found and cost estimates for remediation. Bulk samples analyses for asbestos were performed using the standard Polarized Light Microscopy (PLM) in accordance with EPA standard. Bulk samples were collected by a Massachusetts licensed asbestos inspector Mr. Jason Becotte (AI-034963) and analyzed by a Massachusetts licensed laboratory EMSL, Woburn, MA.

Airborne mold samples were analyzed by an EPA trained laboratory EMSL, Woburn, MA.

Radon samples were analyzed by an EPA licensed laboratory AccuStar, Ward Hill, MA.

Refer to samples results.

FINDINGS:

Asbestos Containing Materials (ACM):

The regulations for asbestos inspection are based on representative sampling. It would be impractical and costly to sample all materials in all areas. Therefore, representative samples of each homogenous area were collected and analyzed or assumed. All suspect materials were grouped into homogenous areas. By definition a homogenous area is one in which the materials are evenly mixed and similar in appearance and texture throughout. A homogeneous area shall be determined to be ACM based on findings that the results of at least one sample collected from that area shows that asbestos is present in an amount of 1 percent or greater in accordance with EPA regulations.

All suspect materials that contain any amount of asbestos must be considered asbestos if it is scheduled to be removed per the Department of Environmental Protection (DEP) regulations.

Number of Samples Collected

Sixty-four (64) bulk samples were collected from the following materials suspected of containing asbestos:

Type and Location of Material

- 1. Interior door glazing caulking at hallway
- 2. Interior door glazing caulking at room 22

- 3. Interior window glazing caulking at hallway
- 4. Interior window glazing caulking at hallway
- 5. Black sink coating at room 2
- 6. Black sink coating at room 20
- 7. Grey sink coating at library work room
- 8. Grey sink coating at library work room
- 9. 2' x 4' Suspended acoustical ceiling tile at generator room
- 10. 2' x 4' Suspended acoustical ceiling tile at teacher's room
- 11. Grey 12" x 12" vinyl floor tile at Pod 3 storage
- 12. Grey 12" x 12" vinyl floor tile at Pod 3 storage
- 13. Mastic for grey 12" x 12" vinyl floor tile at Pod 3 storage
- 14. Mastic for grey 12" x 12" vinyl floor tile at Pod 3 storage
- 15. White/grey 12" x 12" vinyl floor tile at hallway
- 16. White/grey 12" x 12" vinyl floor tile at room 2
- 17. Mastic for white/grey 12" x 12" vinyl floor tile at hallway
- 18. Mastic for white/grey 12" x 12" vinyl floor tile at room 2
- 19. Off white/grey 12" x 12" vinyl floor tile at room 10
- 20. Off white/grey 12" x 12" vinyl floor tile at room 21
- 21. Mastic for off white/grey 12" x 12" vinyl floor tile at room 10
- 22. Mastic for off white/grey 12" x 12" vinyl floor tile at room 21
- 23. White/grey streaks 12" x 12" vinyl floor tile at work room
- 24. White/grey streaks 12" x 12" vinyl floor tile at room 20
- 25. Mastic for white/grey streaks 12" x 12" vinyl floor tile at work room
- 26. Mastic for white/grey streaks 12" x 12" vinyl floor tile at room 20
- 27. White/light brown 12" x 12" vinyl floor tile at hallway along gymnasium
- 28. White/light brown 12" x 12" vinyl floor tile at Pod 3
- 29. Mastic for white/light brown 12" x 12" vinyl floor tile at hallway along gymnasium
- 30. Mastic for white/light brown 12" x 12" vinyl floor tile at Pod 3
- 31. Tan/brown 12" x 12" vinyl floor tile at kitchen bathroom
- 32. Tan/brown 12" x 12" vinyl floor tile at teacher's room
- 33. Mastic for tan/brown 12" x 12" vinyl floor tile at kitchen bathroom
- 34. Mastic for tan/brown 12" x 12" vinyl floor tile at teacher's room
- 35. Lime 12" x 12" vinyl floor tile at room 9
- 36. Lime 12" x 12" vinyl floor tile at room 9
- 37. Mastic for lime 12" x 12" vinyl floor tile at room 9
- 38. Mastic for lime 12" x 12" vinyl floor tile at room 9
- 39. Hard joint insulation at boiler room
- 40. Hard joint insulation at boiler room
- 41. Hard joint insulation at boiler room
- 42. Tank insulation at boiler room
- 43. Tank insulation at boiler room
- 44. Tank insulation at boiler room
- 45. Boiler exhaust insulation at boiler room
- 46. Boiler exhaust insulation at boiler room
- 47. Boiler exhaust insulation at boiler room
- 48. Textured plaster at entry portico
- 49. Textured plaster at entry portico
- 50. Textured plaster at entry portico
- 51. Textured plaster at entry portico
- 52. Textured plaster at entry portico
- 53. Round light gasket at entry portico
- 54. Round light gasket at entry portico
- 55. Exterior window framing caulking
- 56. Exterior window framing caulking

- 57. Exterior window framing caulking
- 58. Exterior window framing caulking
- 59. Exterior door framing caulking
- 60. Exterior door framing caulking
- 61. Exterior door framing caulking
- 62. Exterior expansion joint caulking
- 63. Exterior expansion joint caulking
- 64. Exterior expansion joint caulking

Samples Results Type and Location of Material

Sample Result

1. Interior door glazing caulking at hallway 2% Asbestos 2. Interior door glazing caulking at room 22 2% Asbestos 3. Interior window glazing caulking at hallway 2% Asbestos 4. Interior window glazing caulking at hallway 2% Asbestos 5. Black sink coating at room 2 3% Asbestos 6. Black sink coating at room 20 3% Asbestos 7. Grey sink coating at library work room 4% Asbestos 8. Grey sink coating at library work room 4% Asbestos 9. 2' x 4' Suspended acoustical ceiling tile at generator room No Asbestos Detected 10. 2' x 4' Suspended acoustical ceiling tile at teacher's room No Asbestos Detected 11. Grey 12" x 12" vinyl floor tile at Pod 3 storage 5% Asbestos 12. Grey 12" x 12" vinyl floor tile at Pod 3 storage 5% Asbestos 13. Mastic for grey 12" x 12" vinyl floor tile at Pod 3 storage 10% Asbestos 14. Mastic for grey 12" x 12" vinyl floor tile at Pod 3 storage 10% Asbestos 15. White/grey 12" x 12" vinyl floor tile at hallway No Asbestos Detected 16. White/grey 12" x 12" vinyl floor tile at room 2 No Asbestos Detected 17. Mastic for white/grey 12" x 12" vinyl floor tile at hallway 5% Asbestos 18. Mastic for white/grey 12" x 12" vinyl floor tile at room 2 5% Asbestos 19. Off white/grey 12" x 12" vinyl floor tile at room 10 8% Asbestos 20. Off white/grey 12" x 12" vinyl floor tile at room 21 7% Asbestos 21. Mastic for off white/grey 12" x 12" vinyl floor tile at room 10 10% Asbestos 22. Mastic for off white/grey 12" x 12" vinyl floor tile at room 21 10% Asbestos 23. White/grey streaks 12" x 12" vinyl floor tile at work room 4% Asbestos 24. White/grey streaks 12" x 12" vinyl floor tile at room 20 4% Asbestos 25. Mastic for white/grey streaks 12" x 12" vinyl floor tile at work room 8% Asbestos 26. Mastic for white/grey streaks 12" x 12" vinyl floor tile at room 20 7% Asbestos 27. White/light brown 12" x 12" vinyl floor tile at hallway along gymnasium No Asbestos Detected 28. White/light brown 12" x 12" vinvl floor tile at Pod 3 No Asbestos Detected 29. Mastic for white/light brown 12" x 12" vinyl floor tile at hallway along gymnasium 3% Asbestos 30. Mastic for white/light brown 12" x 12" vinyl floor tile at Pod 3 3% Asbestos 31. Tan/brown 12" x 12" vinyl floor tile at kitchen bathroom 6% Asbestos 32. Tan/brown 12" x 12" vinyl floor tile at teacher's room 6% Asbestos 33. Mastic for tan/brown 12" x 12" vinyl floor tile at kitchen bathroom 6% Asbestos 34. Mastic for tan/brown 12" x 12" vinyl floor tile at teacher's room 7% Asbestos 35. Lime 12" x 12" vinyl floor tile at room 9 6% Asbestos 36. Lime 12" x 12" vinyl floor tile at room 9 6% Asbestos 37. Mastic for lime 12" x 12" vinyl floor tile at room 9 8% Asbestos 38. Mastic for lime 12" x 12" vinyl floor tile at room 9 7% Asbestos 39. Hard joint insulation at boiler room 2% Asbestos 40. Hard joint insulation at boiler room 2% Asbestos 41. Hard joint insulation at boiler room 3% Asbestos 42. Tank insulation at boiler room 65% Asbestos

43. Tank insulation at boiler room 44. Tank insulation at boiler room 45. Boiler exhaust insulation at boiler room 46. Boiler exhaust insulation at boiler room 47. Boiler exhaust insulation at boiler room 48. Textured plaster at entry portico 49. Textured plaster at entry portico 50. Textured plaster at entry portico 51. Textured plaster at entry portico 52. Textured plaster at entry portico 53. Round light gasket at entry portico 54. Round light gasket at entry portico 55. Exterior window framing caulking 56. Exterior window framing caulking 57. Exterior window framing caulking 58. Exterior window framing caulking 59. Exterior door framing caulking 60. Exterior door framing caulking 61. Exterior door framing caulking 62. Exterior expansion joint caulking 63. Exterior expansion joint caulking 64. Exterior expansion joint caulking

65% Asbestos 65% Asbestos 60% Asbestos 60% Asbestos No Asbestos Detected 90% Asbestos 90% Asbestos 4% Asbestos 4% Asbestos 3% Asbestos 3% Asbestos No Asbestos Detected 2% Asbestos 2% Asbestos 2% Asbestos 3% Asbestos 3% Asbestos

Observations and Conclusions:

The condition of ACM is very important. ACM in good condition does not present a health issue unless it is disturbed. Therefore, it is not necessary to remediate ACM in good condition unless it will be disturbed through renovation, demolition or other activity.

- 1. Interior door glazing caulking was found to contain asbestos.
- 2. Interior window glazing caulking was found to contain asbestos.
- 3. Black sink coating was found to contain asbestos.
- 4. Grey sink coating was found to contain asbestos.
- 5. Various types of 12" x 12" vinyl floor tiles were found to contain asbestos.
- 6. Mastic for various types of 12" x 12" vinyl floor tiles were found to contain asbestos.
- 7. Hard joint insulation was found to contain asbestos.
- 8. Tank insulation was found to contain asbestos.
- 9. Boiler exhaust insulation was found to contain asbestos.
- 10. Round light gasket was found to contain asbestos.
- 11. Exterior window framing caulking was found to contain asbestos.
- 12. Exterior door framing caulking was found to contain asbestos.
- 13. Exterior expansion joint caulking was found to contain asbestos.
- 14. Brick within kiln in the boiler room was assumed to contain asbestos.
- 15. Glue holding chalk/tack boards was assumed to contain asbestos.
- 16. Bedding/grout for ceramic tiles was assumed to contain asbestos.
- 17. Paper/mastic under hardwood flooring were assumed to contain asbestos.
- 18. Insulation inside boilers was assumed to contain asbestos.
- 19. Insulation inside incinerator was assumed to contain asbestos.
- 20. Roofing material was assumed to contain asbestos. Roofing material does not have to be removed by a licensed asbestos contractor. However, the Demolition/Roofing Contractor must comply with OSHA regulation during demolition and with state regulations for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval
- 21. Damproofing on exterior and foundation walls was assumed to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.

- 22. Underground sewer pipes were assumed to contain asbestos.
- 23. Thru-wall flashing was assumed to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
- 24. All other suspect materials were found not to contain asbestos. Hidden ACM may be found during demolition activities.

Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures: *Observations and Conclusions*

Visual inspection of various equipment such as light fixtures, thermostats, exit signs and switches was performed for the presence of PCB's and mercury. Ballasts in light fixtures were assumed not to contain PCB's since there were labels indicating that "No PCB's" was found. Tubes in light fixtures, thermostats, signs and switches were assumed to contain mercury. It would be very costly to test those equipment and dismantling would be required to access. Therefore, the above-mentioned equipment should be disposed in an EPA approved landfill as part of the demolition project.

PCB's in Caulking:

Observations and Conclusions

Caulking was assumed to contain PCB's.

Lead Based Paint (LBP):

Observations and Conclusions

LBP was assumed to exit on painted surfaces. A school is not considered a regulated facility. All LBP activities performed, including waste disposal, should be in accordance with applicable Federal, State, or local laws, ordinances, codes, or regulations governing evaluation and hazard reduction. In the event of discrepancies, the most protective requirements prevail. These requirements can be found in OSHA 29 CFR 1926-Construction Industry Standards, 29 CFR 1926.62-Construction Industry Lead Standards, 29 CFR 1910.1200-Hazards Communication, 40 CFR 261-EPA Regulations. According to OSHA, any amount of LBP triggers compliance.

Airborne Mold:

Airborne mold testing was performed utilizing Zefon International Incorporated's Air-O-Cell[®] sampling device following all manufacturer supplied recommended sampling procedures.

The Air-O-Cell[®] is a direct read total particulate air sampling device. It works using the inertial impaction principle similar to other spore trap devices. It is designed for the rapid collection and analysis of airborne particulate including bioaerosols. The particulate includes fibers (e.g. asbestos, fiberglass, cellulose, clothing fibers) opaque particles (e.g. fly ash, combustion particles, copy toner, oil droplets, paint), and bioaerosols (e.g. mold spores, pollen, insect parts, skin cell fragments).¹

The method involves drawing a known quantity of air through a sterile sampling cassette. Subsequent to sampling, the cassette is sealed and transferred to a microbiology laboratory under chain of custody protocol for microscopic analysis. This method counts both viable and nonviable mold spores.

Lab ID #	Location	Total Mold Counts/M ³	Pollen	Insect Fragment	Hyphal Fragments
132300629-0001	Room 6	140	ND	ND	ND
132300629-0002	Room 2	ND	ND	ND	ND

AIRBORNE MOLD and PARTICULATE

¹ Zefon International Inc. <www.zefon.com>

Lab ID #	Location	Total Mold Counts/M ³	Pollen	Insect Fragment	Hyphal Fragments
132300629-0003	Room 16	100	20	ND	ND
132300629-0004	Room 20	20	ND	ND	40
132300629-0005	Room 27	ND	ND	ND	20
132300629-0006	Room 23	Present	ND	ND	Present
132300629-0007	Room 13	ND	ND	ND	ND
132300629-0008	Room 9	60	ND	ND	ND
132300629-0009	Library	80	ND	ND	ND
132300629-0010	Teacher's Room	100	ND	ND	ND
132300629-0011	Outside	140	ND	ND	20

AIRBORNE MOLD and PARTICULATE (Subjective Scales)

Lab ID #	Location	Skin Fragment Density (SFD)	Fibrous Particulates (FP)	Total Background Particulate (TBP)
132300629-0001	Room 6	1	1	2
132300629-0002	Room 2	1	1	1
132300629-0003	Room 16	1	1	3
132300629-0004	Room 20	1	1	2
132300629-0005	Room 27	1	1	2
132300629-0006	Room 23	1	1	5
132300629-0007	Room 13	1	1	1
132300629-0008	Room 9	1	1	1
132300629-0009	Library	1	1	2
132300629-0010	Teacher's Room	1	1	3
132300629-0011	Outside	1	1	2

Legend:

ND - Not Detected

Observations:

There are currently no guidelines or standards promulgated by a government agency or widely recognized scientific organization for the interpretation of airborne mold spore levels. The most commonly employed tool used to assess if mold growth is occurring in a structure is to compare quantities and species of mold outdoors to indoor. If there were more mold indoor, and/or if species were present indoor which were not present outdoors, then growth is occurring, and remediation is recommended.

Based on comparisons with historical data from projects of similar type, building utilization, geographic location and season, the indoor airborne levels are considered average. Indoor mold spore counts in the winter are typically in the 500-1,500-spores/cubic meter range.

Pollen, insect fragments and Hyphal fragments were either not present or low in the samples. Hyphal fragment is a non-reproductive part of the mold.

Total background particulate on all samples was assessed as "1-5" on a scale of 1-5 where 1 is low and 5 is high. Skin fragment density on all samples was assessed as "1" on a scale of 1-4 where 1 is low and 4 is high. The total background levels are measured to determine airborne dust not related to airborne mold. Skin fragments are measured to determine proper housing cleaning.

Radon:

Number of Samples Collected

Ten (10) air samples were collected at the following locations:

Location of Sample

- 1. Room 6
- 2. Room 2
- 3. Room 16
- 4. Room 20
- 5. Room 27
- 6. Room 23
- 7. Room 13
- 8. Room 9
- 9. Library
- 10. Teacher's Room

Location of Sample

Sample Result

1.	Room 6	0.8 pCi\L
2.	Room 2	<0.4 pCi\L
3.	Room 16	0.4 pCi\L
4.	Room 20	0.4 pCi\L
5.	Room 27	0.6 pCi\L
6.	Room 23	<0.4 pCi\L
7.	Room 13	0.6 pCi\L
8.	Room 9	0.5 pCi\L
9.	Library	1.1 pCi\L
10	. Teacher's Room	0.5 pCi\L

Observations and Conclusions:

The measured radon concentrations of the samples were found to be much lower than the EPA guideline of 4 picoCuris of radon per liter of air (pCi/L). No further action is required based on the results.

Mercury in Rubber Flooring:

Observations and Conclusions:

No rubber flooring exists in the school.

COST ESTIMATES:

The cost includes removal and disposal of all accessible ACM, other hazardous materials and an allowance for removal and disposal of inaccessible or hidden ACM that may be found during the demolition project.

Location	Material	Approximate Quantity	Cost Estimate (\$)
Various Locations	Flooring Materials and Mastic	37,000 SF	222,000.00
	Interior Windows/Doors	140 Total	42,000.00
	Sink Damproofing	30 Total	6,000.00
	Hard Joint Insulation	50 Total	4,500.00
	Chalkboards/Tackboards	65 Total	19,500.00
	Hidden Hard Joint Insulation	Unknown	25,000.00
	Miscellaneous Hazardous Materials	Unknown	15,000.00
	Light Fixtures	Unknown	37,500.00
Kitchen	Ceramic Tiles	1,600 SF	16,000.00
Gymnasium	Hardwood Flooring/Paper and Mastic	3,700 SF	37,000.00
Stage	Hardwood Flooring/Paper and Mastic	1,000 SF	10,000.00
Boiler Room	Hard Joint Insulation	60 Total	2,400.00
	Tank Insulation	110 SF	4,400.00
	Boiler Exhaust Insulation	250 SF	7,500.00
	Boilers	2 Total	18,000.00
	Incinerator	1 Total	11,500.00
	Kiln	1 Total	500.00
Exterior Portico	Round Light Gasket	25 Lights	7,500.00
Exterior	Windows	160 Total	64,000.00
	Doors	35 Total	7,000.00
	Expansion Joint	80 LF	2,400.00
	Transite Sewer Pipes	Unknown ¹	50,000.00
	Damproofing on Walls	2,000 Tons	400,000.00
	Roofing Materials	Unknown	80,000.00
PCB's Remediation ²			50,000.00
Estimated costs for PCE	3's Testing and Abatement Plans Services ²		10,000.00
Estimated costs for NES	SHAP Inspection and Testing Services		11,500.00
Estimated costs for Des	sign, Construction Monitoring and Air Samplin	g Services	158,800.00
		Total:	1,320,000.00
		Total:	1,500,000.00 ³

¹: Part of total demolition. ²: Should results exceed EPA limit. ³: Work to be Performed by a CM at Risk Contractor.

DESCRIPTION OF SURVEY METHODS AND LABORATORY ANALYSES:

Asbestos:

Asbestos samples were collected using a method that prevents fiber release. Homogeneous sample areas were determined by criteria outlined in EPA document 560/5-85-030a. Bulk material samples were analyzed using PLM and dispersion staining techniques with EPA /600/R-93/116 method.

Airborne Mold:

The samples were analyzed by an EPA approved laboratory EMSL, Woburn, MA.

Radon:

Radon samples were analyzed by an EPA licensed laboratory AccuStar, Ward Hill, MA.

LIMITATIONS AND CONDITIONS:

This report has been completed based on visual and physical observations made and information available at the time of the site visits, as well as an interview with the Owner's representatives. This report is intended to be used as a summary of available information on existing conditions with conclusions based on a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, state and federal protocols, and within the scope and budget established by the client. Any additional data obtained by further review must be reviewed by UEC and the conclusions presented herein may be modified accordingly.

This report and attachments, prepared for the exclusive use of Owner for use in an environmental evaluation of the subject site, are an integral part of the inspections and opinions should not be formulated without reading the report in its entirety. No part of this report may be altered, used, copied or relied upon without prior written permission from UEC, except that this report may be conveyed in its entirety to parties associated with Owner for this subject study.

Inspected By:

son Berotto

Jason Becotte Asbestos Inspector

132300631

CHAIN OF CUSTODY

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PLM 24-hour TAT

Town/City: Burlington MA Building Name Fox Hill school

Sample	Description of Material	Sample Location
1	Interior dowr glass glaze	Hall way
2	L	Reom 22
3	Interior window glaze	Hallway
4	1	
5	Black sink coating	Room 2
6	1 1	Room 20
7	Gruy sink coating	Library work Room
8	1 1	L (
9	2×4 5AT	Generator Room
10	11	Teachers Room
U	Gray 12 XIZ VET	Pod 3 storage
12	1 1	
13	Black mastic	
14	1 1	
15	white / Gray 12x12 VFT	Hallway
16	l I	Rown 2
17	mastic	01#15
18	11	on # 16
19	off white / gray 12x12 UFT	Rcomlo
20		Room 21
Reporte	d By: Jason Becotte Dat	e: Due Date: 24-Hours
Receive	d By: Dat Page 1	EMSL-BOSTON JAN 31 2023

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CHAIN OF CUSTODY

PLM

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Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com

Town/City: Burling ton MA Building Name Fox Hill school

Sample	Description of Material	Sample Location
21	Black mastic	0-#19
22	1 1	01#20
23	white Wgray streak 12×12	Work Room
24	1 1	Room 20
25	Black mustil	0~#23
26	l l	01#24
27	white/Light Brown 12x12 VFT	Hallway along gym
28	L I	Pod-3
29	mastic	0~#27
30	ιı	01 # 28
31	Tan/Brown 12x12 VFT	Kitchen Bathroom
32		Teachers Ram
33	Black mustic	on # 31
34	L l	on#32
35	Line LIXIL VFT	Room 9
36	2 1	
37	Black mustic	
38	1 1	
39	Hard Joint Pipe Insulation	Boiler Room
40		1 1
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Town/City: -

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Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702 Tel: (508) 628-5486 - Fax: (508) 628-5488 adieb@uec-env.com

Burling ton MA Building Name Fox Hill School

M

Insulation Boiler Room P Boiler Room Ensulation Boiler Room Cr Entry Portico	
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1 1	
caulk exterior window at	t Brick
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P Date:	Due Date: 24-Hours
REC'D EMSL-BOS	NS 0830 TON JAN 31 2023
	l l l l l caulk exterior window at l l l l ulk exterior dwr at B l l Date: Date: REC'D REC'D R

132300631

CHAIN OF CUSTODY

PLM

Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702
Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com

Town/City: -Burlington MA Building Name Fox Hill School

Sample	Description of Material	Sample Location
61	Deor frame coulk	exterior Door at Brick
62	expansion Joint caulk	exterior Brick Joints
63		ł ł
64		
,		
Reporte	d By: Juson Bewitte	Date:
Receive	ed By: D	Date:RECD_RTHS 0830 EMSL-BOSTON JAN 31 2023
	Dama	4 OF 4

EMSL Order: 132300631 **EMSL** Analytical, Inc. Customer ID: UEC63 5 Constitution Way, Unit A Woburn, MA 01801 MSL **Customer PO:** Tel/Fax: (781) 933-8411 / (781) 933-8412 Project ID: http://www.EMSL.com / bostonlab@emsl.com Attention: Ammar Dieb **Phone:** (617) 984-9772 Universal Environmental Consultants Fax: (508) 628-5488 Received Date: 01/31/2023 8:30 AM 12 Brewster Road Framingham, MA 01702 Analysis Date: 02/01/2023 Collected Date: 01/30/2023 Project: Fox Hill School; Burlington, MA

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

			Non-Asbes	tos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1 132300631-0001	Hallway - Interior Door Glass Glaze	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
2	Room 22 - Interior Door Glass Glaze	Gray Fibrous		98% Non-fibrous (Other)	2% Chrysotile
132300631-0002		Homogeneous			
3 132300631-0003	Hallway - Interior Window Glaze	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
4	Hallway - Interior Window Glaze	Gray Fibrous		98% Non-fibrous (Other)	2% Chrysotile
132300631-0004		Homogeneous			
5	Room 2 - Black Sink Coating	Gray Fibrous		97% Non-fibrous (Other)	3% Chrysotile
6	Room 20 - Black Sink Coating	Homogeneous Black Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
7 132300631-0007	Library Work Room - Gray Sink Coating	Gray Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
8	Library Work Room - Gray Sink Coating	Gray Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
9 132300631-0009	Generator Room - 2x4 SAT	Gray/White Fibrous Homogeneous	55% Cellulose 10% Min. Wool	35% Non-fibrous (Other)	None Detected
10	Teachers Room - 2x4 SAT	Gray/White Fibrous Homogeneous	55% Cellulose 10% Min. Wool	35% Non-fibrous (Other)	None Detected
11	Pod 3 Storage - 12x12 Gray VFT	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
12	Pod 3 Storage - 12x12 Gray VFT	Gray Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132300631-0012 13	Pod 3 Storage - Black Mastic	Homogeneous Black Fibrous		90% Non-fibrous (Other)	10% Chrysotile
132300631-0013 14	Pod 3 Storage - Black	Homogeneous Black		90% Non-fibrous (Other)	10% Chrysotile
132300631-0014	Mastic	Fibrous Homogeneous			
15	Hallway - 12x12 White/Gray VFT	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300631-0015	-	Homogeneous			
16	Room 2 - 12x12 White/Gray VFT	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300631-0016		Homogeneous			



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	<u>Non-As</u> % Fibrous	s <u>bestos</u> % Non-Fibrous	<u>Asbestos</u> % Type
	on #15 - Mastic	Black		95% Non-fibrous (Other)	5% Chrysotile
		Fibrous			· ···· , ··· ,
132300631-0017		Homogeneous			
18	on #16 - Mastic	Black Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132300631-0018		Homogeneous			
9	Room 10 - 12x12 Off-White/Gray VFT	Gray Fibrous		92% Non-fibrous (Other)	8% Chrysotile
32300631-0019		Homogeneous			
0	Room 21 - 12x12 Off-White/Gray VFT	Gray Fibrous		93% Non-fibrous (Other)	7% Chrysotile
32300631-0020		Homogeneous			
.1	on #19 - Black Mastic	Black Fibrous		90% Non-fibrous (Other)	10% Chrysotile
32300631-0021		Homogeneous			
2	on #20 - Black Mastic	Black Fibrous		90% Non-fibrous (Other)	10% Chrysotile
32300631-0022		Homogeneous			
23	Work Room - 12x12 White w. Gray Streak	Gray/White Fibrous		96% Non-fibrous (Other)	4% Chrysotile
32300631-0023		Homogeneous			
4	Room 20 - 12x12 White w. Gray Streak	Gray/White Fibrous		96% Non-fibrous (Other)	4% Chrysotile
32300631-0024		Homogeneous			
5	on #23 - Black Mastic	Black Fibrous		92% Non-fibrous (Other)	8% Chrysotile
32300631-0025		Homogeneous			
6	on #24 - Black Mastic	Black Fibrous		93% Non-fibrous (Other)	7% Chrysotile
32300631-0026		Homogeneous			
7	Hallway along Gym - 12x12 White/Light	Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32300631-0027	Brown VFT	Homogeneous			
8	Pod 3 - 12x12 White/Light Brown	Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32300631-0028	VFT	Homogeneous			
9	on #27 - Mastic	Black Fibrous		97% Non-fibrous (Other)	3% Chrysotile
32300631-0029		Homogeneous			
0	on #28 - Mastic	Black Fibrous		97% Non-fibrous (Other)	3% Chrysotile
32300631-0030		Homogeneous			
1	Kitchen Bathroom - 12x12 Tan/Brown	Brown/Tan Fibrous		94% Non-fibrous (Other)	6% Chrysotile
32300631-0031	VFT	Homogeneous			
2	Teachers Room - 12x12 Tan/Brown	Brown/Tan Fibrous		94% Non-fibrous (Other)	6% Chrysotile
32300631-0032	VFT	Homogeneous			
3	on #31 - Black Mastic	Black Fibrous		94% Non-fibrous (Other)	6% Chrysotile
32300631-0033		Homogeneous			
4	on #32 - Black Mastic	Black Fibrous		93% Non-fibrous (Other)	7% Chrysotile
32300631-0034		Homogeneous			
35	Room 9 - 12x12 Lime VFT	Gray Fibrous		94% Non-fibrous (Other)	6% Chrysotile
132300631-0035		Homogeneous			

Initial report from: 02/01/2023 09:52:34



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	Annoaranco	<u>Non-Asbes</u> % Fibrous	s <u>tos</u> % Non-Fibrous	<u>Asbestos</u> % Type
Sample	Description	Appearance	% FINIOUS		% Type
36	Room 9 - 12x12 Lime VFT	Gray Fibrous		94% Non-fibrous (Other)	6% Chrysotile
132300631-0036	····	Homogeneous			
37	Room 9 - Black	Black		92% Non-fibrous (Other)	8% Chrysotile
	Mastic	Fibrous			
132300631-0037		Homogeneous			
38	Room 9 - Black Mastic	Black Fibrous		93% Non-fibrous (Other)	7% Chrysotile
132300631-0038	Masuc	Homogeneous			
39	Boiler Room - Hard	Gray	18% Min. Wool	80% Non-fibrous (Other)	2% Chrysotile
	Joint Pipe Insulation	Fibrous			2/0 01
32300631-0039		Homogeneous			
40	Boiler Room - Hard	Gray	18% Min. Wool	80% Non-fibrous (Other)	2% Chrysotile
	Joint Pipe Insulation	Fibrous			
32300631-0040		Homogeneous	450/ 14: 14/ 1		
41	Boiler Room - Hard Joint Pipe Insulation	Gray Fibrous	15% Min. Wool	82% Non-fibrous (Other)	3% Chrysotile
32300631-0041		Homogeneous			
12	Boiler Room - Tank	Gray		35% Non-fibrous (Other)	65% Chrysotile
	Insulation	Fibrous		()	· · · · · ·
32300631-0042		Homogeneous			
13	Boiler Room - Tank	Gray		35% Non-fibrous (Other)	65% Chrysotile
32300631-0043	Insulation	Fibrous			
	Poilor Doorse Tarak	Homogeneous		250/ Non 5 (04)	
4	Boiler Room - Tank Insulation	Gray Fibrous		35% Non-fibrous (Other)	65% Chrysotile
32300631-0044	modulion	Homogeneous			
5	Boiler Room - Boiler	Gray		35% Non-fibrous (Other)	65% Chrysotile
	Exhaust Insulation	Fibrous			,
32300631-0045		Homogeneous			
16	Boiler Room - Boiler	Gray		40% Non-fibrous (Other)	60% Chrysotile
32300631-0046	Exhaust Insulation	Fibrous			
17	Boiler Room - Boiler	Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
+7	Exhaust Insulation	Gray Fibrous		40% Non-librous (Other)	00% Chiysotile
32300631-0047		Homogeneous			
18	Entry Portico -	Tan/White		100% Non-fibrous (Other)	None Detected
	Textured Plaster	Non-Fibrous			
132300631-0048		Homogeneous			
19	Entry Portico -	Tan/White		100% Non-fibrous (Other)	None Detected
32300631-0049	Textured Plaster	Non-Fibrous Homogeneous			
50	Entry Portico -	Tan/White		100% Non-fibrous (Other)	None Detected
	Textured Plaster	Non-Fibrous			
132300631-0050		Homogeneous			
51	Entry Portico -	Tan/White		100% Non-fibrous (Other)	None Detected
	Textured Plaster	Non-Fibrous			
32300631-0051	_	Homogeneous			
52	Entry Portico - Textured Plaster	Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
32300631-0052	I ENUIEU FIASIEI	Homogeneous			
53	Entry Portico - Round	Gray		10% Non-fibrous (Other)	90% Chrysotile
~~	Light Gasket	Fibrous			So / On youre
32300631-0053	-	Homogeneous			
54	Entry Portico - Round	Gray		10% Non-fibrous (Other)	90% Chrysotile
	Light Gasket	Fibrous			
132300631-0054		Homogeneous			

Initial report from: 02/01/2023 09:52:34



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

			Non-As	bestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
55 132300631-0055	Exterior Window at Brick - Window Frame Caulk	Gray Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
56	Exterior Window at Brick - Window Frame Caulk	Gray Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
57	Exterior Window at Brick - Window Frame Caulk	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
58 132300631-0058	Exterior Window at Brick - Window Frame Caulk	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
59 132300631-0059	Exterior Door at Brick - Door Frame Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60 132300631-0060	Exterior Door at Brick - Door Frame Caulk	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
61	Exterior Door at Brick - Door Frame Caulk	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
62	Exterior Brick Joints - Expansion Joint Caulk	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
63 132300631-0063	Exterior Brick Joints - Expansion Joint Caulk	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
64	Exterior Brick Joints - Expansion Joint Caulk	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile

Analyst(s)

Ramon Buenaventura (64)

P

Steve Grise, Laboratory Manager or Other Approved Signatory

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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: 02/01/2023 09:52:34

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7 Constitution Way, Suite 107, Woburn, MA 01801 Phone/Fax: (781) 933-8411 / (781) 933-8412 <u>bostonlab@emsl.com</u> EMSL Order: 131302977 CustomerID: UEC63 CustomerPO: ProjectID:

Attn:	Jason Becotte	Phone:	(508) 628-5486
	Universal Environmental Consultants	Fax:	(508) 628-5488
	12 Brewster Road	Received:	07/16/13 1:12 PM
	Framingham, MA 01702	Analysis Date:	7/16/2013
		Collected:	7/16/2013

Project: Fox Hill School Office; Burlington, MA

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

				Non-A	sbestos	A	sbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	%	Туре
1 131302977-0001	Storage Room - White 12x12 VAT	White Non-Fibrous Homogeneous			95% Non-fibrous (other)		Chrysotile
2 131302977-0002	Storage Room - White 12x12 VAT	White Non-Fibrous Homogeneous			95% Non-fibrous (other)	5%	Chrysotile
3 131302977-0003	Under Carpet - White 12x12 VAT	White Non-Fibrous Homogeneous			95% Non-fibrous (other)	5%	Chrysotile
4 131302977-0004	Under Carpet - White 12x12 VAT	White Non-Fibrous Homogeneous			95% Non-fibrous (other)	5%	Chrysotile
5 131302977-0005	Storage Room - Black Mastic	Black Non-Fibrous Homogeneous			90% Non-fibrous (other)	10%	Chrysotile
6 131302977-0006	Storage Room - Black Mastic	Black Non-Fibrous Homogeneous			90% Non-fibrous (other)	10%	Chrysotile
7 131302977-0007	Under Carpet - Black Mastic	Black Non-Fibrous Homogeneous			90% Non-fibrous (other)	10%	Chrysotile
8 131302977-0008	Under Carpet - Black Mastic	Black Non-Fibrous Homogeneous			90% Non-fibrous (other)	10%	Chrysotile

Analyst(s)

Kevin Pine (8)

Renaldo Drakes, Laboratory Manager or other approved signatory

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Initial report from 07/16/2013 15:51:12

1

CHAIN OF CUSTODY

Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702 Tel: (508) 628-5486 - Fax: (508) 628-5488

adieb@uec-env.com

PLM 29-how TAT

Town/City: Burlington, MA Building Name Fox Hill school

Sample	Result	Description of Material	Sample Location
t		sheetrock 2×45AT	Cafeteria Storage rown
2		sheet rode 2×4 SAT	Cafeteria Storage room Cafeteria Storage room
· · ·			
	<u> </u>		
_			· · · · · · · · · · · · · · · · · · ·
		······································	
			· · · · · · · · · · · · · · · · · · ·
Reported By	Jaso	Becute Data: 7-24-1	17
Received By	27.1	Date: 7-24-1 Thun Bellow Date: 7-24-1	Due Date:



Asbestos Identification Laboratory

165 New Boston St., Ste 227 Woburn, MA 01801 781-932-9600

Web: www.asbestosidentificationlab.com Email: mikemanning@asbestosidentificationlab.com

July 25, 2017

Ammar Dieb Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702

Project Number: Project Name: Fox Hill School, Burlington, MA

Batch:

 Date Sampled:
 2017-07-24

 Work Received:
 2017-07-24

 Work Analyzed:
 2017-07-24

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

Dear Ammar Dieb,

Asbestos Identification Laboratory has completed the analysis of the samples from your office for the above referenced project .

The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.

Laboratory results represent the analysis of samples as submitted by the customer. Information regarding sample location, description, area, volume, etc., was provided by the customer. Asbestos Identification Laboratory is not responsible for sample collection activities or analytical method limitations. Unless notified in writing to return samples, Asbestos Identification Laboratory discards customer samples after 30 days. Samples containing subsamples or layers will be analyzed separately when applicable. Reports are kept at Asbestos Identification Laboratory for three years. This report shall not be reproduced, except in full, without the written consent of Asbestos Identification Laboratory.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration Number: PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number: LB-0078(Bulk) LA-0087(Air)
- · State of Rhode Island and Providence Plantations. Department of Health Certification: AAL-121
- State of Vermont, Department of Health Environmental Health License AL934461

Thank you Ammar Dieb for your business.

Michael Themany

Michael Manning Owner/Director



July 25, 2017

Ammar Dieb Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702

Project Number: Project Name: Fox Hill School, Burlington, MA

 Date Sampled:
 2017-07-24

 Work Received:
 2017-07-24

 Work Analyzed:
 2017-07-24

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

FieldID	Material	Location	Color	Non-Asbestos	%	Asbestos %	
LabID							
	Sheetrcok 2x4 SAT	Cafeteria Storage Room	gray	Fiberglass	2	None Detected	
				Cellulose	20		
275096				Non-Fibrous	78		
	Sheetrcok 2x4 SAT	Cafeteria Storage Room	gray	Fiberglass	2	None Detected	
				Cellulose	30		
275097				Non-Fibrous	68		
uesday 25 July	2017 Q. A.	End of Report			Pa	ge 1 of 1	
nalyzed by:	2017 Stefanin A	Batch: 24416	i			0	

OrderID: 131800703

131800703

CHAIN OF CUSTODY

L	In	ivers	al	Env	ironm	ental	Con	sult	ants	
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	-	-		تمخط						

12 Brewster Road Framingham, MA 01702 Tel: (508) 628-5486 - Fax: (508) 628-5488 adieb@uec-env.com PLM 24-hour TAT

Town/City: Building Name Fox Hill School

Sample	Result	Description of Material	Sample Location
ļ		Plaster conent	Walk-In Freezer Wall
2) j	1
3			
4		Cork	walk-In freezer insulation
2			/
6			l
7		Blackter on Cerk	Walk-In Freezer insclution
8			
. 9	******		
Reported E	3y: Ja	son Bearte Date: 2-2-1	8 Due Date:
Received E	3y;	Date:	
			RECT 16-15 F. FEB 0 2 2018 EMSL-BOSTON FEB 0 2 2018

EMEL	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: Customer ID: Customer PO: Project ID:	
Attention:	Ammar Dieb	Phone:	(617) 984-9772
	Universal Environmental Consultants	Fax:	(508) 628-5488
	12 Brewster Road	Received Date:	02/02/2018 4:15 PM
	Framingham, MA 01702	Analysis Date:	02/05/2018
		Collected Date:	02/02/2018
Project:	Fox Hill School / Burlington, MA		

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

Asbestos	sbestos	Non-A			
% Туре	% Non-Fibrous	% Fibrous	Appearance	Description	Sample
None Detected	100% Non-fibrous (Other)		Gray Non-Fibrous	Walk-In Freezer Wall - Plaster Cement	1
			Homogeneous		131800703-0001
None Detected	100% Non-fibrous (Other)		Gray Non-Fibrous	Walk-In Freezer Wall - Plaster Cement	2
			Homogeneous		131800703-0002
None Detected	100% Non-fibrous (Other)		Gray Non-Fibrous	Walk-In Freezer Wall - Plaster Cement	3
			Homogeneous		131800703-0003
None Detected	100% Non-fibrous (Other)	······································	Brown	Walk-In Freezer	4
			Non-Fibrous Homogeneous	Insulation - Cork	131800703-0004
None Detected	100% Non-fibrous (Other)		Brown	Walk-In Freezer	5
			Non-Fibrous Homogeneous	Insulation - Cork	131800703-0005
None Detected	100% Non-fibrous (Other)	*****	Brown	Walk-In Freezer	6
			Non-Fibrous Homogeneous	Insulation - Cork	131800703-0006
None Detected	100% Non-fibrous (Other)		Black	Walk-In Freezer	7
			Non-Fibrous Homogeneous	Insulation - Black Tar on Cork	131800703-0007
None Detected	100% Non-fibrous (Other)		Black	Walk-In Freezer	8
	. ,		Non-Fibrous	Insulation - Black Tar	
			Homogeneous	on Cork	131800703-0008
None Detected	100% Non-fibrous (Other)		Black	Walk-In Freezer	9
					131800703-0009
	100% Non-fibrous (Other)				9 131800703-0009

Analyst(s)

Elizabeth Stutts (9)

Ph

Steve Grise, Laboratory Manager or Other Approved Signatory

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

(Initial report from: 02/05/2018 12:14:31

OrderID: 131808190

131808190 CHAIN OF CUSTODY

Universal Environmental Consultants

12 Brewster Road Framingham, MA 01702

Tel: (508) 628-5486 - Fax: (508) 628-5488

adieb@uec-env.com

PL-M 48-Low TAT

Town/City: Gurlington, MA Building Name Fox Hill school

Sample Resu	It Description of Material	Sample Location
	Rough Ceiling Pluster	Bailer room
2		
3		
4	Smooth Plaster	Lafeteria.
S		1
6		
7		
8		
9	2x4 5.4T	Hall along Gum
10	$\frac{2 \times 4}{1} \frac{5.4 \text{ T}}{1}$	Hall olong Gym Pod A
1/	Joint compand	
17	Joint compand	Kitchen Storage PE office
] 3	sheet rock	U.t.chien Storage
14		pe office
Reported By:	Taron Gerove Date: 10-	23-18 Due Date:
	Date:	Gris and PC

UNIVERSAL ENVIRONMENTAL CONSULTANTS

EMBL	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: Customer ID: Customer PO: Project ID:	
Attention:	Ammar Dieb	Phone:	(617) 984-9772
	Universal Environmental Consultants	Fax:	(508) 628-5488
	12 Brewster Road	Received Date:	10/23/2018 2:35 PM
	Framingham, MA 01702	Analysis Date:	10/25/2018
		Collected Date:	10/23/2018
Project:	Fox Hill School / Burlington MA		

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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1	Boiler Room - Rough Ceiling Plaster	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
131808190-0001		Homogeneous			
2	Boiler Room - Rough Ceiling Plaster	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
3	Boiler Room - Rough	Homogeneous			
J 131808190-0003	Ceiling Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4	Cafeteria - Smooth Plaster	White/Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
131808190-0004		Homogeneous			
5	Cafeteria - Smooth Plaster	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6	Cafeteria - Smooth Plaster	Gray Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
131808190-0006		Homogeneous			
7	Cafeteria - Smooth Plaster	White/Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
131808190-0007		Homogeneous	·····		
8 131808190-0008	Cafeteria - Smooth Plaster	White/Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
9	Hall Along Gym - 2x4	Homogeneous	4594 0-41-4		
9 131808190-0009	SAT	Gray/White Fibrous Homogeneous	45% Cellulose 40% Min. Wool	15% Non-fibrous (Other)	None Detected
10	Pod 4 - 2x4 SAT	Gray/White Fibrous	45% Cellulose 40% Min. Wool	15% Non-fibrous (Other)	None Detected
131808190-0010		Homogeneous			
11	Kitchen Storage - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
131808190-0011		Homogeneous			
12	PE Office - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
131808190-0012		Homogeneous			
13	Kitchen Storage - Sheet Rock	Brown/Gray Non-Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (Other)	None Detected
14	PE Office - Sheet	Brown/Grav	12% Cellulose		
14	Rock	Brown/Gray Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (Other)	None Detected



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: 131808190 Customer ID: UEC63 Customer PO: Project ID:

Analyst(s)

John McCarthy (14)

PA

Steve Grise, Laboratory Manager or Other Approved Signatory

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

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

Initial report from: 10/25/2018 18:02:48

		CHAIN OF CUSTOD	/
			0
BUILDIN	G/SITE NAME: Fox H WORK AREA:	TOW TOW	STATE: MA
Analysis	Turnaround Time (x	to be a second se	Specific Project Notes
Type TEM / AHERA	6-8 Hr 12 Hr 24 Hr 48	Hr 72 hr	
TEM / Level II			
TEM / Dust TEM / Bulk	and the second sec		
TEM / Water			
PLM			
Mold Other:			
SAMPLE ID	MATERIAL DESCRIPTION	SAMPLE LOCATION	START STOP TIME LIMIN VOLU
1	3517 3805	Roumb	1504 1514 10 15 15
2	3426 4644	Rom 2	1508 1518 10 15 15
3	3517.3803	Rom 16	21 21 01 2221 2121
4	3426 9396	Rom 20	1519 1529 10 15 15.
S	3426 4643	Rom 27	1526153610 15 15
6	3426 4639	Rom 23	1531 1541 00 15 15
7	3426 4651	Rom 13	1537 1547 10 15 150
8	3426 4635	Rom 9	1542 1552 10 15 15
9	3426 4637	Library	1548 1558 10 LS LS
10	3426 4646	Library Teadiers Room Outside	1553 1603 10 15 15
. 11	3426 4602	outside	1558 1608 10 15 15
SAMPLED BY	Jason Beatte	DATE/TIME: RECEIVED BY:	DATE/TI



5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com Customer ID: UEC63 Customer PO: Project ID:

EMSL Order: 132300629

Attention: Ammar Dieb

Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702

Project: Fox Hill School; Burlington, MA

Phone: (617) 984-9772 Fax: (508) 628-5488 Collected Date: 01/30/2023 Received Date: 01/31/2023 08:30 AM Analyzed Date: 01/31/2023

Lab Sample Number:	1	32300629-0001			132300629-0002			132300629-0003			
Client Sample ID:	1			2			3				
Volume (L):		150			150			150			
Sample Location:		Room 6			Room 2			Room 16			
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-	-		-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	4	80	57.1	-	-	-	3	60	60		
Basidiospores	1	20	14.3	-	-	-	2	40	40		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	1	20	14.3	-	-	-	-	-	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	1	20	14.3	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	7	140	100	-	None Detect	-	5	100	100		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	1	20	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.J.

Steve Grise, Laboratory Manager

or other Approved Signatory

No discernable field blank was submitted with this group of samples.

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Initial report from: 02/01/2023 08:02 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com MIC_M001_0002_0002 Printed: 02/01/2023 08:02 AM



5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

Attention: Ammar Dieb

Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702

Project: Fox Hill School; Burlington, MA

EMSL Order: 132300629 Customer ID: UEC63 Customer PO: Project ID:

Phone: (617) 984-9772 Fax: (508) 628-5488 Collected Date: 01/30/2023 Received Date: 01/31/2023 08:30 AM Analyzed Date: 01/31/2023

Test Report:Air-	Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)										
Lab Sample Number: Client Sample ID: Volume (L):	132300629-0004 4 150			4 5					132300629-0006 6 150		
Sample Location:		Room 20			Room 27			Room 23			
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	1	20	100	-	-	-	-	-	-		
Basidiospores	-	-	-	-	-	-	Present	Present	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	Present	Present	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	Present	Present	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	1	20	100	-	None Detect	-	-	-	-		
Hyphal Fragment	2	40	-	1	20	-	Present	Present	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	2	-	-	2	-	-	5	_		

132300629-0006 - Overloaded

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.S.

Steve Grise, Laboratory Manager

or other Approved Signatory

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Initial report from: 02/01/2023 08:02 AM

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Project: Fox Hill School; Burlington, MA

EMSL Order: 132300629 Customer ID: UEC63 Customer PO: Project ID:

Phone: (617) 984-9772 Fax: (508) 628-5488 Collected Date: 01/30/2023 Received Date: 01/31/2023 08:30 AM Analyzed Date: 01/31/2023

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)									
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	132300629-0007 7 150 Room 13		132300629-0008 8 150 Room 9			132300629-0009 9 150 Library			
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1	20	25
Aspergillus/Penicillium	-	-	-	3	60	100	-	-	-
Basidiospores	-	-	-	-	-	-	2	40	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	1	20	25
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	None Detect	-	3	60	100	4	80	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	2	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.J.

Steve Grise, Laboratory Manager

or other Approved Signatory

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Initial report from: 02/01/2023 08:02 AM

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Project: Fox Hill School; Burlington, MA

EMSL Order: 132300629 Customer ID: UEC63 Customer PO: Project ID:

Phone: (617) 984-9772 Fax: (508) 628-5488 Collected Date: 01/30/2023 Received Date: 01/31/2023 08:30 AM Analyzed Date: 01/31/2023

Test Report:Air-	O-Cell(™) Analy	sis of Fungal S	oores & Partic	ulates by Optica	l Microscopy (l	Methods MICR	O-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	132300629-0010 10 150 Teacher's Room		132300629-0011 11 150 Outside						
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	4	80	57.1	-		
Basidiospores	2	40	40	2	40	28.6	-		
Bipolaris++	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-		
Cladosporium	-	-	-	1	20	14.3	-		
Curvularia	-	-	-	-	-	-	-		
Epicoccum	1	20	20	-	-	-	-		
Fusarium++	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	2	40	40	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-		
Total Fungi	5	100	100	7	140	100	-		
Hyphal Fragment	1	20	-	1	20	-	-		
Insect Fragment	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	-	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-		
Background (1-5)	-	3	-	-	2	-	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P. J.

Steve Grise, Laboratory Manager or other Approved Signatory

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Radon in Air

Liquid Scintillation

Descult

EPA Method #402-R-92-004

NRPP Device Code 8088

NRSB Device Code 12193

NELAC NY 11769 NRPP 103216 AL NRSB ARL0017

Laboratory Report for:

Property Tested:

Universal Environmental Consultant	Fox Hill School
12 Brewster Road	Fox Hil⊨Road
Framingham MA 01702	Burling:on MA 01803

Log Number	Device Number		Test Expos	sure Duratio	n:	Area Tested	Hesult pCi/L
8294242	4794754	01/30/2023	3:05 pm	02/02/2023	10:02 am	First Floor Room 6	0.8
8294243	4794755	01/30/2023	3:07 pm	02/02/2023	10:02 am	First Floor Room 2	< 0.4
8294244	4775968	01/30/2023	3:16 pm	02/02/2023	10:04 am	First Floor Room 16	0.4
8294245	4794753	01/30/2023	3:20 pm	02/02/2023	10:04 am	First Floor Room 20	0.4
8294246	4768495	01/30/2023	3:27 pm	02/02/2023	10:06 am	First Floor Room 27	0.6
8294247	4794752	01/30/2023	3:31 pm	02/02/2023	10:06 am	First Floor Room 23	< 0.4
8294248	4775967	01/30/2023	3:38 pm	02/02/2023	10:10 am	First Floor Room 13	0.6
8294249	4775971	01/30/2023	3:43 pm	02/02/2023	10:10 am	First Floor Room 9	0.5
8294250	4775966	01/30/2023	3:48 pm	02/02/2023	10:08 am	First Floor Library	1.1
8294251	4794748	01/30/2023	3:54 pm	02/02/2023	10:08 am	First Floor Teachers Room	0.5

Comment: Universal Environmental Consultant was emailed a copy of this report.

Test Performed By: Placed: Jason Becotte Retrieved: Jason Becotte

Distributed by: Universal Environmental Consultant

Date Received: 02/03/2023 Date Logged:

Date Analyzed: 02/04/2023 Date

Date Reported: 02/06/2023

Report Reviewed By: _______

Report Approved By:

02/03/2023

Disclaimer:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

The counting uncertainty of this radon measurement is ~+/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Laboratory personnel were r ot involved in the placement or retrieval of the samples. Analytical results relate to the samples as received by the laboratory. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuS ar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verba: or written interpretation of the results.