



July 20, 2019

Mr. Ed Forte
Forte Architecture + Design
705 Centre Street
Boston, Massachusetts 02130

RE: FLI Project #: 19-1723
Inspection for Asbestos & Hazardous Containing Materials at
Norwell Town Hall
345 Main Street, Norwell, MA

Dear Mr. Forte:

FLI Environmental, Inc. performed an inspection for asbestos containing materials (ACMs) at the property located at the address noted above. This report outlines the initial visual survey, sample collection and summary of analytical results provided by FLI.

Inspection Summary:

A handwritten signature in black ink, reading "Richard K. Bowen", is written above a horizontal line.

Asbestos Inspector:	Richard Bowen
License #:	AI061044
Date of Inspection:	June 7, 2019
Total Materials Sampled:	62
Samples Analyzed At:	Asbestos Identification Laboratory, Inc.
NIST/NVLAP Certification#:	200919-0
MassDLS Lab Certification#:	AA000208

Scope and Approach:

FLI provided a state licensed and EPA AHERA accredited asbestos inspector to perform an inspection of the subject area(s). The purpose of the inspection was to identify and sample building materials suspected to contain asbestos. Suspect materials include thermal system insulation, fireproofing, soundproofing, plasters, skimcoating, spray-applied or trowel applied finishes, ceiling & floor tiles, sheet flooring, caulking, glazing, mastics, adhesives, cement board products, roofing materials and numerous other products. Materials having the same function/application, similar color, texture or other observed similar characteristics were grouped together and sampled as one homogeneous material. A minimum of 2 samples of each homogenous material were collected.

Homogeneous materials determined to be non-suspect by the inspector (if observed), include concrete floors, wood flooring/joists, concrete block, black/brown vinyl flexible duct connectors, fiberglass insulation, armaflex (neoprene) insulation, rubber, plastic, ceramic tile, glass and metal.

If present, areas within walls, drywall encased columns and above ceilings were inspected where possible in accessible representative locations. However, each individual enclosed area was not inspected. Accessible areas beneath such surfaces were examined and sampled, and material quantities were estimated based on these observations.

Bulk Sampling:

Bulk samples were collected in a random manner and submitted via chain of custody to the analytical laboratory. The samples were analyzed by Polarized Light Microscopy per EPA Method 600/R-93-116, July 1993. The detection limit of the EPA recommended method is one percent asbestos by weight. Materials containing greater than one percent asbestos are treated as asbestos-containing as required by the EPA. The laboratory is accredited by the National Institute of Standards and Technologies NIST/NVLAP Program and licensed by the Massachusetts Department of Labor Standards (DLS) for asbestos analysis in bulk materials.

Asbestos Containing Materials:

Any homogeneous material having at least one (1) sample analytically identified as containing one percent (1%) asbestos or greater is categorized as an asbestos containing material. Any material analytically identified as containing any asbestos fibers is categorized as an asbestos containing waste material. A summary of materials identified to contain asbestos is provided in Appendix A including approximate location(s) of the material and estimated quantities. Laboratory Analytical Data Sheets for each sample analyzed are included in Appendix C.

Non-Asbestos Containing Materials:

Homogeneous materials where each sample analyzed was determined not to contain asbestos are categorized as non-asbestos. A summary of non-asbestos materials is provided in Appendix B. Laboratory Analytical Data Sheets for each sample analyzed are included in Appendix C.

Remarks and Limitations:

1. Additional suspect materials may be present beneath surfaces (multiple layers) or within chases or crawlspace areas that were unknown or inaccessible at the time of the inspection but may be discovered during demolition, renovation or maintenance activities. Any additional suspect materials not identified in this report that become exposed during building renovation, maintenance or demolition should be sampled and analyzed for asbestos content prior to disturbing.

2. Each identified asbestos containing material must be removed by a licensed asbestos abatement contractor prior to being disturbed by building maintenance, renovation or demolition activities.
3. This report is not meant to be used as an asbestos abatement plan or abatement specification. Material quantities and locations are estimates and approximations and should not be used to obtain pricing from contractors. FLI recommends contracting for abatement after an abatement specification is prepared by a licensed Asbestos Project Designer.
4. Painted components (window/door frames, walls, ceilings and trim) as well as glazed block and ceramic tiled surfaces have not been characterized for lead content. Proper personal protective equipment (PPE) should be utilized when impacting these materials during renovation/demolition activities.
5. Roof characterization was not performed at the time of the survey. If roof systems will be impacted during upcoming renovation activities, sampling of those materials must be performed.

Should you have any questions or need additional information, please contact our office at (781) 251-0040. Thank you for the opportunity to provide you with our services and we look forward to working together in the future.

APPENDIX A

Asbestos Containing Materials Summary Table			
Material	Location	Estimated Quantity	Sample # ('s)
Textured Ceiling Plaster	Addition, Basement, First and Second Floors	5,400 SF	1723-01A,B,C
Textured Ceiling Plaster	Basement: Rec. Rm., Kitchen, Bath; Basement, 1st, 2nd Floors: Corridors	6,500 SF	1723-01D,E
Black/Brown 9"x 9" Floor Tile	Throughout Building; May be Beneath Carpeting or 12"x12" Floor Tile	13,500 SF	1723-13A,B,C
Black 12"x 12" Floor Tile	Second Floor Corridor	200 SF	1723-15
Green Asbestos-Cement Chalkboard	Addition, 205, 206. May be Beneath White Boards on Base & 1st	450 SF	1723-24
Linoleum Wall Covering, Associated with Former Sink	Rooms 201, 202, 203, 204, 106, 107, 108, 109 (Former Original Building Classrooms)	125 SF	1723-29
Cloth Behind Radiant Heat Pipes	First Floor, Gymnasium	220 SF	1723-31
Paper Panel Behind Radiant Heat Pipes (Inside Wood Seat)	First Floor, Osborne Room	100 SF	1723-32
Black Sink Undercoating	Basement, Former Records Storage Room	1 Sink	1723-33
Exterior Window Glazing (Metal Windows)	Exterior, Throughout	183 Windows	1723-41
Exterior Window Caulking (Original), Gray	Exterior, Newer Caulking was Applied Over This in Most Locations	1,500 LF	1723-43,45A,B; 46
Exterior Louver Caulking	Building Exterior	75 LF	1723-49
Caulking Around Glass Blocks	Building Exterior/Interior	1,100 LF	1723-52
Interior Window Glazing	First and Second Floor Corridors, Entrances to Stairwells (Wood-Framed)	400 SF	1723-54
Interior Dampproofing	Perimeter Walls, Inner Course of Brick, Throughout Building	1,200 SF	1723-55A,B
Electrical Wiring Insulation	Room 201, Stored HID & Other Light Fixtures	375 LF	1723-56
Gasket @ Glass Globe/Fixture Interface	Room 201, Stored HID Light Fixtures (Round Gaskets)	48 LF	1723-57
Pipe and Fitting Insulation	Throughout Building. Surface-Mount, Above Ceilings, Inside Chases	2,000 LF	1723-58

APPENDIX B

Suspect Materials Found Not to Contain Asbestos				
Sample # ('s)	Material	Sample Location A	Sample Location B	Sample Location C
1723-02A,B	Wire Lath Ceiling Plaster	Exterior, Overhang @ Handicap Entrance	Exterior, Overhang @ Handicap Entrance	
1723-03A,B	2'x 4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	Basement, Corridor @ Electrical Closet	
1723-04A,B	2'x 4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	Basement, Health Department	
1723-05	12"x 12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office		
1723-06	12"x 12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department		
1723-07	12"x 12" Splined Ceiling Tile (Grid Pattern), w/Daubs	2nd Floor, Room 201		
1723-08	Mr. Forte:			
1723-09A,B,C	Joint Compound	Basement, Water Department	Basement, Ted Nichols Office	Basement, Highway, Department
1723-09D	Joint Compound	Basement, Electrical Closet		
1723-10A,B	Gypsum Board	Basement, Water Department	Basement, Electrical Closet	
1723-11A,B,C	Tan 12"x 12" Floor Tile	1st Floor, Corridor	Basement, Corridor @ Stairs By Electrical Closet	Basement, Corridor, By Facilities Office
1723-12A,B,C	Black Mastic Associated with Tan 12"x 12" Floor Tile	1st Floor, Corridor	Basement, Corridor @ Stairs By Electrical Closet	Basement, Corridor, By Facilities Office
1723-14A,B,C	Black Mastic Associated with 9"x 9" Floor Tiles	2nd Floor, Stairwell Landing	Basement, Water Department (Beneath 12"x 12")	Basement, Recreation Office
1723-16	Black Mastic Associated with Black 12"x 12" Floor Tile	2nd Floor, Corridor		
1723-17	Residual Black Mastic	1st Floor, Server Room		

APPENDIX B

Suspect Materials Found Not to Contain Asbestos				
Sample # ('s)	Material	Sample Location A	Sample Location B	Sample Location C
1723-18A,B	Black 6" Vinyl Cove Base	2nd Floor, Corridor	2nd Floor, Room 201	
1723-19A,B	Brown Mastic Associated with Black 6" Vinyl Cove Base	2nd Floor, Corridor	2nd Floor, Room 201	
1723-20	Black 4" Vinyl Cove Base	2nd Floor, Room 206		
1723-21	Tan Mastic Associated with Black 4" Vinyl Cove Base	2nd Floor, Room 206		
1723-22A,B	Brown 4" Vinyl Cove Base	Basement, Ted Nichols Office	Basement, Water Department	
1723-23A,B	Tan Mastic Associated with Brown 4" Vinyl Cove Base	Basement, Ted Nichols Office	Basement, Water Department	
1723-25A,B,C	Cementitious Wire Lath Wall Plaster (White Skim)	Basement, Corridor Outside Water Department	1st Floor, Meeting Room 3	1st Floor, Gym
1723-25D	Cementitious Wire Lath Wall Plaster (White Skim)	2nd Floor, Room 201		
1723-26A,B,C	Cementitious Wire Lath Wall Plaster (Gray Base)	Basement, Corridor Outside Water Department	1st Floor, Meeting Room 3	1st Floor, Gym
1723-26D	Cementitious Wire Lath Wall Plaster (Gray Base)	2nd Floor, Room 201		
1723-27	Ceramic Floor Tile, Grout	2nd Floor, Boy's Bathroom		
1723-28	Ceramic Floor Tile, Thinset	2nd Floor, Boy's Bathroom		
1723-30	Linoleum Covering, Associated with Unit Ventilator	1st Floor, Selectment/Town Administration		
1723-34	Adhesive/Thinset Associated with Slate Window Sills	2nd Floor, Room 205		

APPENDIX B

Suspect Materials Found Not to Contain Asbestos				
Sample # ('s)	Material	Sample Location A	Sample Location B	Sample Location C
1723-35	Glass Block Mortar	2nd Floor, Room 205		
1723-36	Textured Wallpaper	Basement, Corridor Outside Water Department		
1723-37A,B	5' High Wall Panels	2nd Floor, Corridor	1st Floor, Corridor	
1723-38	Boiler Rib Gasketing	Basement, Boiler Room		
1723-39A,B	Exterior Door Caulking	Left Side Door	Rear Door @ HR	
1723-40A,B	Exterior Window Caulking, Interface of Wood/Concrete	Osborne Room	Osborne Room	
1723-42	Exterior Window Caulking (Newer, on Metal Windows), Beige	Gym		
1723-44A,B	Exterior Window Caulking (Newer), Beige	Rooftop Windows	Rooftop Windows	
1723-47	Oakum Rope, Beneath 46	Street-Side		
1723-50	Exterior Gray Flexible Window Caulking	Right Side		
1723-51	Exterior Expansion Joint Caulking	Rear, Near HR Entrance		
1723-53	Interior Door Glazing	2nd Floor, Room 204		

APPENDIX C

ASBESTOS ABATEMENT COST ESTIMATES

TABLE 1
Asbestos Abatement Cost Estimate
Norwell Town Hall
Norwell Ma, MA
FLI Project #19-1723

Material Description	Material Location	Estimated Quantity	Estimated Unit Cost	Estimated Cost
Textured Ceiling Plaster	Addition, Basement, First & Second Floors	5,000 SF	\$10 Per SF	\$50,000
Textured Ceiling Plaster	<i>Basement:</i> Rec. Room, Kitchen, Bath; <i>Basement, 1st, 2nd Floors:</i> Corridors	6,500 SF	\$10 Per SF	\$65,000
Black/Brown 9"x 9" Floor Tile	Throughout Building; May be Beneath Carpeting or 12"x12" Floor Tile	13,500 SF	\$6 Per SF	\$81,000
Black 12"x12" Floor Tile	Second Floor Corridor	200 SF	\$5 Per SF	\$1,000
Green Asbestos-Cement Chalkboard	Addition, 205, 206. May be Beneath White Boards on Basement & 1st Floors	450 SF	\$10 Per SF	\$4,500
Linoleum Wall Covering, Associated with Former Sink	Rooms 201, 202, 203, 204, 106, 107, 108, 109 (Former Original Building Classrooms)	125 SF	\$10 Per SF	\$1,250
Cloth Behind Radiant Heat Pipes	First Floor, Gymnasium	220 SF	\$15 Per SF	\$3,300
Paper Panel Behind Radiant Heat Pipes	First Floor, Osborne Room	100 SF	\$15 Per SF	\$1,500
Black Sink Undercoating	Basement, Former Records Storage Room	1 Sink	\$150 Per Sink	\$150
Exterior Window Glazing (Metal Windows)	Exterior, Throughout	183 Windows	\$200 Per Window	\$36,600
Exterior Window Caulking (Original)	Exterior, Newer Caulking was Applied Over This in Most Locations	1,500 SF	\$20 Per LF	\$30,000
Exterior Louvre Caulking	Building Exterior	75 LF	\$10 Per LF	\$750
Caulking Around Glass Block Banks	Building Exterior/Interior	1,100 LF	\$110 Per LF	\$121,000
Interior Window Glazing (Wood-Framed)	First and Second Floor Corridors, Entrances to Stairwells (Wood-Framed)	400 SF	\$20 Per SF	\$8,000
Interior Dampproofing	Perimeter Walls, Inner Course of Brick, Throughout Building	1,200 SF	\$25 Per SF	\$30,000
Electrical Wire Insulation	Room 201, Stored HID & Other Light Fixtures	375 LF	\$10 Per LF	\$3,750
Gasket @ Glass Globe/Fixture Interface	Room 201, Stored HID Light Fixtures (Round Gaskets)	48 LF	\$10 Per LF	\$480
Pipe & Fitting Insulation	Throughout Building. Surface-Mount, Above Ceilings, Inside Chases	2,000 LF	\$25 Per LF	\$50,000
Contractor Total for Asbestos Abatement and Disposal				\$489,000
Project Monitoring and Design Services				\$74,000
Subtotal				\$563,000
Contingency for multiple phasing, unexpected abatement difficulties, etc. (~20%)				\$113,000
TOTAL COST ESTIMATE RANGE (Numbers Are Rounded To The Nearest \$1,000)				\$563,000 to \$676,000

NOTES:

LF = Linear Feet, SF = Square Feet, CF = Cubic Feet

1. These abatement cost estimates are based on a limited assessment, and can be revised/updated as additional data is obtained.

Unit costs are inclusive of labor and disposal costs associated with abatement of the specified material.

APPENDIX D

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES

TABLE 2

Hazardous Materials Abatement Cost Estimate
 Norwell Town Hall
 Norwell Ma, MA
 FLI Project #19-1723

Material Description	Material Location	Estimated Quantity	Estimated Unit Cost	Estimated Cost
HVAC Roof-Mounted Unit	Facility Roofs	7 Units	\$100 Per Unit	\$700
Miscellaneous Equipment Oils (Motors, Compressors, Hydraulic Door Closers)	Throughout Facility	1 Lab Pack	\$750 Per Lab Pack	\$750
Emergency Exit Lights/Signs/Strobes/Uninterruptible Power Supplies/Fire Control Box	Throughout Facility	22 Battery	\$45 Per Unit	\$990
HID Lights	Room 201	48 Units	\$25 Per Bulb	\$1,200
HID Light Ballasts/Capacitors	Room 201	48 Units	\$25 Per Unit	\$1,200
Fluorescent Tubes	Second Floor	340 Tubes	\$5 Per Tube	\$1,700
Fluorescent Light Ballasts	Second Floor	170 Ballasts	\$10 Per Ballast	\$1,700
Mercoid Boiler Controllers	Boiler Room	2 Units	\$100 Per Unit	\$200
Contractor Total for Asbestos Abatement and Disposal				\$9,000
Project Monitoring and Design Services				\$2,000
Subtotal				\$11,000
Contingency for multiple phasing, unexpected abatement difficulties, etc. (~20%)				\$3,000
TOTAL COST ESTIMATE RANGE (Numbers Are Rounded To The Nearest \$1,000)				\$11,000 to \$14,000

NOTES:

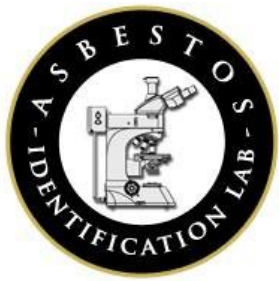
LF = Linear Feet, SF = Square Feet, CF = Cubic Feet

1. These abatement cost estimates are based on a limited assessment, and can be revised/updated as additional data is obtained.

Unit costs are inclusive of labor and disposal costs associated with abatement of the specified material.

APPENDIX E

BULK SAMPLE LABORATORY DATA SHEETS



Asbestos Identification Laboratory

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

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

Batch: 43521



June 17, 2019

Rick Bowen
FLI Environmental
69 Bridge Street
Dedham, MA 02026

Project Number: 19-1723

Project Name: Norwell Town Hall, 345 Main Street,
Norwell, MA

Date Sampled: 2019-06-07

Work Received: 2019-06-13

Work Analyzed: 2019-06-15

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

Dear Rick Bowen,

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 Rick Bowen for your business.

Michael Manning
Owner/Director

Rick Bowen
 FLI Environmental
 69 Bridge Street
 Dedham, MA 02026

Project Number: 19-1723

Project Name: Norwell Town Hall, 345 Main Street,
 Norwell, MA

Date Sampled: 2019-06-07

Work Received: 2019-06-13

Work Analyzed: 2019-06-15

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

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %																																																																																												
LabID																																																																																																	
1723-01A	Textured Ceiling Plaster	Basement, Ted Nichols Office	white	Cellulose 5	Detected Chrysotile 2																																																																																												
485586				Non-Fibrous 93		1723-01B	Textured Ceiling Plaster	Basement, Ted Nichols Office	multi	Cellulose 5	Detected Chrysotile 5	485587	Non-Fibrous 90	1723-01C	Textured Ceiling Plaster	2nd Floor, Room 205	multi	Cellulose 5	Detected Chrysotile 10	485588	Non-Fibrous 85	1723-01D	Textured Ceiling Plaster	2nd Floor, Corridor	multi	Cellulose 5	Detected Chrysotile 10	485589	Non-Fibrous 85	1723-01E	Textured Ceiling Plaster	2nd Floor, Corridor	multi	Cellulose 5	Detected Chrysotile 10	485590	Non-Fibrous 85	1723-02A	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485591		1723-02B	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485592		1723-03A	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	gray	Mineral Wool 40	None Detected	485593	Cellulose 40	1723-03B	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor @ Electrical Closet	gray	Mineral Wool 40	None Detected	485594	Cellulose 40	1723-04A	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485595	Cellulose 40	1723-04B	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485596	Cellulose 40	1723-05	12"x12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office	gray	Mineral Wool 40	None Detected	485597	Cellulose 40	1723-06	12"x12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department	brown
1723-01B	Textured Ceiling Plaster	Basement, Ted Nichols Office	multi	Cellulose 5	Detected Chrysotile 5																																																																																												
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485589				Non-Fibrous 85		1723-01E	Textured Ceiling Plaster	2nd Floor, Corridor	multi	Cellulose 5	Detected Chrysotile 10	485590	Non-Fibrous 85	1723-02A	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485591		1723-02B	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485592		1723-03A	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	gray	Mineral Wool 40	None Detected	485593	Cellulose 40	1723-03B	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor @ Electrical Closet	gray	Mineral Wool 40	None Detected	485594	Cellulose 40	1723-04A	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485595	Cellulose 40	1723-04B	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485596	Cellulose 40	1723-05	12"x12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office	gray	Mineral Wool 40	None Detected	485597	Cellulose 40	1723-06	12"x12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department	brown	Cellulose 100	None Detected	485598																					
1723-01E	Textured Ceiling Plaster	2nd Floor, Corridor	multi	Cellulose 5	Detected Chrysotile 10																																																																																												
485590				Non-Fibrous 85		1723-02A	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485591		1723-02B	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485592		1723-03A	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	gray	Mineral Wool 40	None Detected	485593	Cellulose 40	1723-03B	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor @ Electrical Closet	gray	Mineral Wool 40	None Detected	485594	Cellulose 40	1723-04A	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485595	Cellulose 40	1723-04B	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485596	Cellulose 40	1723-05	12"x12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office	gray	Mineral Wool 40	None Detected	485597	Cellulose 40	1723-06	12"x12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department	brown	Cellulose 100	None Detected	485598																													
1723-02A	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected																																																																																												
485591						1723-02B	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected	485592		1723-03A	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	gray	Mineral Wool 40	None Detected	485593	Cellulose 40	1723-03B	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor @ Electrical Closet	gray	Mineral Wool 40	None Detected	485594	Cellulose 40	1723-04A	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485595	Cellulose 40	1723-04B	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485596	Cellulose 40	1723-05	12"x12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office	gray	Mineral Wool 40	None Detected	485597	Cellulose 40	1723-06	12"x12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department	brown	Cellulose 100	None Detected	485598																																					
1723-02B	Wire Lath Ceiling Plaster	Exterior, Overhang@ Handicap Entrance	multi	Non-Fibrous 100	None Detected																																																																																												
485592						1723-03A	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	gray	Mineral Wool 40	None Detected	485593	Cellulose 40	1723-03B	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor @ Electrical Closet	gray	Mineral Wool 40	None Detected	485594	Cellulose 40	1723-04A	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485595	Cellulose 40	1723-04B	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected	485596	Cellulose 40	1723-05	12"x12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office	gray	Mineral Wool 40	None Detected	485597	Cellulose 40	1723-06	12"x12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department	brown	Cellulose 100	None Detected	485598																																													
1723-03A	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	gray	Mineral Wool 40	None Detected																																																																																												
485593				Cellulose 40																																																																																													
1723-03B	2'x4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor @ Electrical Closet	gray	Mineral Wool 40	None Detected																																																																																												
485594				Cellulose 40																																																																																													
1723-04A	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected																																																																																												
485595				Cellulose 40																																																																																													
1723-04B	2'x4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	gray	Mineral Wool 40	None Detected																																																																																												
485596				Cellulose 40																																																																																													
1723-05	12"x12" Splined Ceiling Tile (Fissured), No Daubs	1st Floor, Assessor's Office	gray	Mineral Wool 40	None Detected																																																																																												
485597				Cellulose 40																																																																																													
1723-06	12"x12" Splined Ceiling Tile (Grid Pattern), No Daubs	Basement, Health Department	brown	Cellulose 100	None Detected																																																																																												
485598																																																																																																	

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1723-07	12"x12" Splined Ceiling Tile (Grid Pattern), w/Daub	2nd Floor, Room 201	brown	Cellulose 100	None Detected
485599					
1723-08	Brown Glue Daub, Associated with 07	2nd Floor, Room 201	brown	Non-Fibrous 100	None Detected
485600					
1723-09A	Joint Compound	Basement, Water Department	white	Non-Fibrous 100	None Detected
485601					
1723-09B	Joint Compound	Basement, Ted Nichols Office	white	Non-Fibrous 100	None Detected
485602					
1723-09C	Joint Compound	Basement, Highway, Department	white	Non-Fibrous 100	None Detected
485603					
1723-09D	Joint Compound	Basement, Electrical Closet	white	Non-Fibrous 100	None Detected
485604					
1723-10A	Gypsum Board	Basement, Water Department	gray	Cellulose 100	None Detected
485605					
1723-10B	Gypsum Board	Basement, Electrical Closet	gray	Cellulose 100	None Detected
485606					
1723-11A	Tan 12"x12" Floor Tile	1st Floor, Corridor	gray	Non-Fibrous 100	None Detected
485607					
1723-11B	Tan 12"x12" Floor Tile	Basement, Corridor @ Stairs by Electrical Closet	gray	Non-Fibrous 100	None Detected
485608					
1723-11C	Tan 12"x12" Floor Tile	Basement, Corridor @ Stairs by Electrical Closet	gray	Non-Fibrous 100	None Detected
485609					
1723-12A	Black Mastic Associated with Tan 12"x12" Floor Tile	1st Floor, Corridor	black	Cellulose 5	None Detected
485610				Non-Fibrous 95	
1723-12B	Black Mastic Associated with Tan 12"x12" Floor Tile	Basement, Corridor @ Stairs by Electrical Closet	black	Cellulose 5	None Detected
485611				Non-Fibrous 95	
1723-12C	Black Mastic Associated with Tan 12"x12" Floor Tile	Basement, Corridor, by Facilities Office	black	Cellulose 5	None Detected
485612				Non-Fibrous 95	
1723-13A	Black/Brown 9"x9" Floor Tile	2nd Floor, Stairwell Landing	black	Non-Fibrous 97	Detected Chrysotile 3
485613					
1723-13B	Black/Brown 9"x9" Floor Tile	Basement, Water Department (Beneath 12"x12")	brown	Non-Fibrous 97	Detected Chrysotile 3
485614					
1723-13C	Black/Brown 9"x9" Floor Tile	Basement, Recreation Office	brown	Non-Fibrous 97	Detected Chrysotile 3
485615					
1723-14A	Black Mastic Associated with 9"x9" Floor Tiles	2nd Floor, Stairwell Landing	black	Non-Fibrous 100	None Detected
485616					

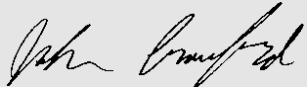
FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1723-14B	Black Mastic Associated with 9"x9" Floor Tiles	Basement, Water Department (Beneath 12"x12")	black	Non-Fibrous 100	None Detected
485617					
1723-14C	Black Mastic Associated with 9"x9" Floor Tiles	Basement, Recreation Office	black	Non-Fibrous 100	None Detected
485618					
1723-15	Black 12"x12" Floor Tile	2nd Floor, Corridor	black	Non-Fibrous 98	Detected Chrysotile 2
485619					
1723-16	Black Mastic Associated with Black 12"x12" Floor Tile	2nd Floor, Corridor	black	Cellulose 10	None Detected
485620				Non-Fibrous 90	
1723-17	Residual Black Mastic	1st Floor, Server Room	black	Non-Fibrous 100	None Detected
485621					
1723-18A	Black 6" Vinyl Cove Base	2nd Floor, Corridor	black	Non-Fibrous 100	None Detected
485622					
1723-18B	Black 6" Vinyl Cove Base	2nd Floor, Room 201	black	Non-Fibrous 100	None Detected
485623					
1723-19A	Brown Mastic Associated with Black 6" Vinyl Cove Base	2nd Floor, Corridor	brown	Non-Fibrous 100	None Detected
485624					
1723-19B	Brown Mastic Associated with Black 6" Vinyl Cove Base	2nd Floor, Room 201	brown	Non-Fibrous 100	None Detected
485625					
1723-20	Black 4" Vinyl Cove Base	2nd Floor, Room 206	black	Non-Fibrous 100	None Detected
485626					
1723-21	Tan Mastic Associated with Black 4" Vinyl Cove Base	2nd Floor, Room 206	black	Non-Fibrous 100	None Detected
485627					
1723-22A	Brown 4" Vinyl Cove Base	Basement, Ted Nichols Office	brown	Non-Fibrous 100	None Detected
485628					
1723-22B	Brown 4" Vinyl Cove Base	Basement, Water Department	brown	Non-Fibrous 100	None Detected
485629					
1723-23A	Tan Mastic Associated with Brown 4" Vinyl Cove Base	Basement, Ted Nichols Office	tan	Non-Fibrous 100	None Detected
485630					
1723-23B	Tan Mastic Associated with Brown 4" Vinyl Cove Base	Basement, Water Department	tan	Non-Fibrous 100	None Detected
485631					
1723-24	Green 'Asbestos-Cement Chalkboard	2nd Floor, Room 205	gray	Non-Fibrous 90	Detected Chrysotile 10
485632					
1723-25A	Cementitious Wire Lath Wall Plaster (White Skim)	Basement, Corridor Outside Water Department	white	Non-Fibrous 100	None Detected
485633					
1723-25B	Cementitious Wire Lath Wall Plaster (White Skim)	1st Floor, Meeting Room 3	white	Non-Fibrous 100	None Detected
485634					

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1723-25C	Cementitious Wire Lath Wall Plaster (White Skim)	1st Floor, Gym	white	Non-Fibrous 100	None Detected
485635					
1723-25D	Cementitious Wire Lath Wall Plaster (White Skim)	2nd Floor, Room 201	white	Non-Fibrous 100	None Detected
485636					
1723-26A	Cementitious Wire Lath Wall Plaster (Gray Base)	Basement, Corridor Outside Water Department	gray	Non-Fibrous 100	None Detected
485637					
1723-26B	Cementitious Wire Lath Wall Plaster (Gray Base)	1st Floor, Meeting Room 3	gray	Non-Fibrous 100	None Detected
485638					
1723-26C	Cementitious Wire Lath Wall Plaster (Gray Base)	1st Floor, Gym	gray	Non-Fibrous 100	None Detected
485639					
1723-26D	Cementitious Wire Lath Wall Plaster (Gray Base)	2nd Floor, Room 201	gray	Non-Fibrous 100	None Detected
485640					
1723-27	Ceramic Floor Tile, Grout	2nd Floor, Boy's Bathroom	gray	Non-Fibrous 100	None Detected
485641					
1723-28	Ceramic Floor Tile, Thinset	2nd Floor, Boy's Bathroom	gray	Non-Fibrous 100	None Detected
485642					
1723-29	Linoleum Wall Covering, Associated with Former Sink	2nd Floor, Room 203	multi	Cellulose 5	Detected Chrysotile 5
485643				Non-Fibrous 90	
1723-30	Linoleum Covering, Associated with Unit Ventilator	1st Floor, Selectmen/Town Administration	multi	Cellulose 5	None Detected
485644				Non-Fibrous 95	
1723-31	Cloth Behind Radiant Heat Pipes	1st Floor, Gym	multi	Cellulose 5	Detected Chrysotile 2
485645				Non-Fibrous 93	
1723-32	Paper Panel Behind Radiant Heat Pipes, (Inside Wood Seat/Chase)	1st Floor, Osborne Room	gray	Cellulose 20	Detected Chrysotile 40
485646				Non-Fibrous 40	
1723-33	Black Sink Undercoating	Basement, Back Storage (Former Records Storage)	black	Non-Fibrous 95	Detected Chrysotile 5
485647					
1723-34	Adhesive/Thinset Associated with Slate Window Sills	2nd Floor, Room 205	gray	Non-Fibrous 100	None Detected
485648					
1723-35	Glass Black Mortar	2nd Floor, Room 205	gray	Non-Fibrous 100	None Detected
485649					
1723-36	Textured Wallpaper	Basement, Corridor Outside Water Department	multi	Cellulose 20	None Detected
485650				Non-Fibrous 80	
1723-37A	5' High Wall Panels	2nd Floor, Corridor	multi	Cellulose 10	None Detected
485651				Non-Fibrous 90	
1723-37B	5' High Wall Panels	1st Floor, Corridor	multi	Cellulose 10	None Detected
485652				Non-Fibrous 90	

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1723-38	Boiler Rib Gasketing	Basement, Boiler Room	brown	Mineral Wool 20 Non-Fibrous 80	None Detected
485653					
1723-39A	Exterior Door Caulking	Left Side Door	white	Non-Fibrous 100	None Detected
485654					
1723-39B	Exterior Door Caulking	Rear Door @ HR	white	Non-Fibrous 100	None Detected
485655					
1723-40A	Exterior Window Caulking, Interface of Wood/Concrete	Osborne Room	green	Non-Fibrous 100	None Detected
485656					
1723-40B	Exterior Window Caulking, Interface of Wood/Concrete	Osborne Room	green	Non-Fibrous 100	None Detected
485657					
1723-41	Exterior Window Glazing (Metal Windows)	Gym	gray	Non-Fibrous 95	Detected Chrysotile 5
485658					
1723-42	Exterior Window Caulking (Newer, on Metal Windows), Beige	Gym	brown	Non-Fibrous 100	None Detected
485659					
1723-43	Exterior Window Caulking (Original), Gray	Rooftop Windows	brown	Non-Fibrous 95	Detected Chrysotile 5
485660					
1723-44A	Exterior Window Caulking (Newer), Beige	Rooftop Windows	tan	Non-Fibrous 100	None Detected
485661					
1723-44B	Exterior Window Caulking (Newer), Beige	Rooftop Windows	tan	Non-Fibrous 100	None Detected
485662					
1723-45A	Exterior Window Caulking	Handicap Entrance	multi	Non-Fibrous 97	Detected Chrysotile 3
485663					
1723-45B	Exterior Window Caulking	Handicap Entrance (Darker Caulking)	multi	Non-Fibrous 97	Detected Chrysotile 3
485664					
1723-46	Exterior Window Caulking, Gray	Street-Side	gray	Non-Fibrous 97	Detected Chrysotile 3
485665					
1723-47	Oakum Rope, Beneath 46	Street-Side	multi	Cellulose 100	None Detected
485666					
1723-48	Exterior Window Glazing	Water Department	multi	Non-Fibrous 90	Detected Chrysotile 10
485667					
1723-49	Exterior Louver Caulking	Rear, Near HR Entrance	multi	Non-Fibrous 95	Detected Chrysotile 5
485668					
1723-50	Exterior Gray Flexible Window Caulking	Right Side	gray	Non-Fibrous 100	None Detected
485669					
1723-51	Exterior Expansion Joint Caulking	Rear, Near HR Entrance	black	Non-Fibrous 100	None Detected
485670					

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1723-52	Interior Caulking Around Glass Blocks	2nd Floor, Room	multi	Non-Fibrous 90	Detected Chrysotil 10
485671					
1723-53	Interior Door Glazing	2nd Floor, Room 204	tan	Other 2 Non-Fibrous None	Detecte
485672					
1723-54	Interior Window Glazing	2nd Floor, Corridor	tan	Non-Fibrous 97	Detected Chrysotile 3
485673					

Monday 17 June
2019



End of Report

Batch: 43521

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Asbestos Identification Laboratory

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

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

Batch: 44065



July 02, 2019

Rick Bowen
FLI Environmental
69 Bridge Street
Dedham, MA 02026

Project Number: 19-1723

Project Name: Norwell Town Hall, 345 Main Street,
Norwell, MA

Date Sampled: 2019-06-07

Work Received: 2019-07-01

Work Analyzed: 2019-07-02

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

Dear Rick Bowen,

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 Rick Bowen for your business.

Michael Manning
Owner/Director

July 02, 2019

Rick Bowen
FLI Environmental
69 Bridge Street
Dedham, MA 02026

Project Number: 19-1723

Project Name: Norwell Town Hall, 345 Main Street,
Norwell, MA

Date Sampled: 2019-06-07

Work Received: 2019-07-01

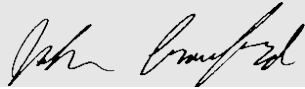
Work Analyzed: 2019-07-02

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

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1723-55A	Interior Damp Proofing	2nd Floor, Girl's Room, Perimeter Wall	black	Non-Fibrous 85	Detected Chrysotile 15
490510					
1723-55B	Interior Damp Proofing	2nd Floor, Girl's Room, Perimeter Wall	black	Non-Fibrous 85	Detected Chrysotile 15
490511					
1723-56	Electrical Wiring Insulation	2nd Floor, Room 201, Lighting Fixtures	multi	Cellulose 40	Detected Chrysotile 40
490512				Non-Fibrous 20	
1723-57	Gasket @ Glass Globe/ Fixture Interface	2nd Floor, Room 201, HID Lighting Fixtures	white	Non-Fibrous 10	Detected Chrysotile 90
490513					

Tuesday 02 July 2019

Analyzed by:



End of Report

Batch: 44065

Page 1 of 1



FLL Environmental

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY RECORD

FLL Project #: 19-1723

Date: 6/7/2019

Client: Forte Architecture + Design

Site: Norwell Town Hall

Sampled by: Richard Bowen

345 Main Street, Norwell, MA

License #: A1061044

Sample # (s)	Material	Location A	Location B	Location C	Asbestos Analysis		
					PLM	TEM	Point Count
					Positive (y/n)		
1723-01A,B,C	Textured Ceiling Plaster	Basement, Ted Nichols Office	Basement, Ted Nichols Office	3rd Floor, Room 205	X		
1723-01D,E	Textured Ceiling Plaster	3rd Floor, Corridor	3rd Floor, Corridor		X		
1723-02A,B	Wire Lath Ceiling Plaster	Exterior, Overhang @ Handicap Entrance	Exterior, Overhang @ Handicap Entrance		X		
1723-03A,B	2x 4' Suspended Acoustical Ceiling Tile (Scar/Pinhole)	Basement, Corridor	Basement, Corridor @ Electrical Closet		X		
1723-04A,B	2x 4' Suspended Acoustical Ceiling Tile (Fissured)	Basement, Health Department	Basement, Health Department		X		
1723-05	12"x 12" Spined Ceiling Tile (Fissured), No Daub	2nd Floor, Assessor's Office			X		
1723-06	12"x 12" Spined Ceiling Tile (Grid Pattern), No Daub	Basement, Health Department			X		
1723-07	12"x 12" Spined Ceiling Tile (Grid Pattern), w/Daub	3rd Floor, Room 201			X		
1723-08	Brown Glue Daub, Associated with 07	3rd Floor, Room 201			X		
1723-09A,B,C	Joint Compound	Basement, Water Department	Basement, Ted Nichols Office	Basement, Highway, Department	X		
1723-09D	Joint Compound	Basement, Electrical Closet			X		
1723-10A,B	Gypsum Board	Basement, Water Department	Basement, Electrical Closet		X		
1723-11A,B,C	Tan 12"x 12" Floor Tile	2nd Floor, Corridor	Basement, Corridor @ Stairs By Electrical Closet	Basement, Corridor, By Facilities Office	X		

Received by: *Richard Bowen*

Date/Time: 6-12-2019

Turnaround: Rush 24-Hr 48-Hr

3-Day 4-Day 5-Day

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Date Needed



FLI Environmental

69 Bridge Street • Dedham • MA • 02026 (781) 251-0040 fax (781) 251-0901

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY RECORD

FLI Project #: 19-1723

Date: 6/7/2019

Client: Forte Architecture + Design
Site: Norwell Town Hall

Sampled by: Richard Bowen

345 Main Street, Norwell, MA

License #: A1061044

Date/Time

Sample # (s)	Material	Location A	Location B	Location C	Asbestos Analysis		
					PLM	TEM	Point Count
1723-12A,B,C	Black Mastic Associated with Tan 12"x 12" Floor Tile	2nd Floor, Corridor	Basement, Corridor @ Stairs By Electrical Closet	Basement, Corridor, By Facilities Office	X		
1723-13A,B,C	Black/Brown 9"x 9" Floor Tile	3rd Floor, Stairwell Landing	Basement, Water Department (Beneath 12"x 12")	Basement, Recreation Office	X		
1723-14A,B,C	Black Mastic Associated with 9"x 9" Floor Tiles	3rd Floor, Stairwell Landing	Basement, Water Department (Beneath 12"x 12")	Basement, Recreation Office	X		
1723-15	Black 12"x 12" Floor Tile	3rd Floor, Corridor			X		
1723-16	Black Mastic Associated with Black 12"x 12" Floor Tile	3rd Floor, Corridor			X		
1723-17	Residual Black Mastic	1st Floor, Server Room			X		
1723-18A,B	Black 6" Vinyl Cove Base	3rd Floor, Corridor	3rd Floor, Room 201		X		
1723-19A,B	Brown Mastic Associated with Black 6" Vinyl Cove Base	3rd Floor, Corridor	3rd Floor, Room 201		X		
1723-20	Black 4" Vinyl Cove Base	3rd Floor, Room 206			X		
1723-21	Tan Mastic Associated with Black 4" Vinyl Cove Base	3rd Floor, Room 206			X		
1723-22A,B	Brown 4" Vinyl Cove Base	Basement, Ted Nichols Office	Basement, Water Department		X		
1723-23A,B	Tan Mastic Associated with Brown 4" Vinyl Cove Base	Basement, Ted Nichols Office	Basement, Water Department		X		
1723-24	Green Asbestos-Cement Chalkboard	3rd Floor, Room 205			X		

Relinquished by:

Turnaround: Rush 24-Hr **48-Hr**

Received by:

Date/Time

3-Day 4-Day 5-Day

Relinquished by:

Date/Time

Date Needed



FJI Environmental

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY RECORD

FJI Project #: 19-1723

Date: 6/7/2019

Sampled by: Richard Bowen

License #: AI061044

Client: Forte Architecture + Design

Site: Norwell Town Hall

345 Main Street, Norwell, MA

Received by: _____ Date/Time _____

Date/Time _____

Sample # (s)	Material	Location A	Location B	Location C	Asbestos Analysis			
					PLM	TEM	Point Count	
					Positive (Y/N)			
1723-25A,B,C	Cementitious Wire Lath Wall Plaster (White Skim)	Basement, Corridor Outside Water Department	2nd Floor, Meeting Room 3	2nd Floor, Gym	X			
1723-25D	Cementitious Wire Lath Wall Plaster (White Skim)	3rd Floor, Room 201			X			
1723-26A,B,C	Cementitious Wire Lath Wall Plaster (Gray Base)	Basement, Corridor Outside Water Department	4th Floor, Meeting Room 3	4th Floor, Gym	X			
1723-26D	Cementitious Wire Lath Wall Plaster (Gray Base)	3rd Floor, Room 201			X			
1723-27	Ceramic Floor Tile, Grout	3rd Floor, Boy's Bathroom			X			
1723-28	Ceramic Floor Tile, Thinset	3rd Floor, Boy's Bathroom			X			
1723-29	Linoleum Wall Covering, Associated with Former Sink	3rd Floor, Room 203			X			
1723-30	Linoleum Covering, Associated with Unit Ventilator	2nd Floor, Selection/Town Administration			X			
1723-31	Cloth Behind Radiant Heat Pipes	2nd Floor, Gym			X			
1723-32	Paper Panel Behind Radiant Heat Pipes, (Inside Wood Seat/Chase)	2nd Floor, Osborne Room			X			
1723-33	Black Sink Undercoating	Basement, Back Storage (Former Records Storage)			X			
1723-34	Adhesive/Thinset Associated with Slate Window Sills	3rd Floor, Room 205			X			
1723-35	Glass Block Mortar	3rd Floor, Room 205			X			

Relinquished by: _____ Turnaround: Rush 24-Hr (48-Hr)

Received by: _____ Date/Time _____ 3-Day 4-Day 5-Day



FLI Environmental

69 Bridge Street • Dedham • MA • 02026 (781) 251-0040 fax (781) 251-0901

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY RECORD

FLI Project #: 19-1723

Date: 6/7/2019

Sampled by: Richard Bowen

License #: A1061044

Client: Forte Architecture + Design

Site: Norwell Town Hall

345 Main Street, Norwell, MA

Relinquished by:

Date/Time

Received by:

Date/Time

Sample # (s)	Material	Location A	Location B	Location C	Asbestos Analysis			Positive (Y/N)
					PLM	TEM	Point Count	
1723-36	Textured Wallpaper	Basement, Corridor Outside Water Department			X			
1723-37A,B	5' High Wall Panels	3rd Floor, Corridor	2nd Floor, Corridor		X			
1723-38	Boiler Rib Gasketing	Basement, Boiler Room			X			
1723-39A,B	Exterior Door Caulking	Left Side Door	Rear Door @ HR		X			
1723-40A,B	Exterior Window Caulking, Interface of Wood/Concrete	Osborne Room	Osborne Room		X			
1723-41	Exterior Window Glazing (Metal Windows)	Gym	Gym		X			
1723-42	Exterior Window Caulking (Newer, on Metal Windows), Beige	Gym			X			
1723-43	Exterior Window Caulking (Original), Gray	Rooftop Windows			X			
1723-44A,B	Exterior Window Caulking (Newer), Beige	Rooftop Windows	Rooftop Windows		X			
1723-45A,B	Exterior Window Caulking	Handicap Entrance	Handicap Entrance (Darker Caulking)		X			
1723-46	Exterior Window Caulking, Gray	Street-Side			X			
1723-47	Oakum Rope, Beneath 46	Street-Side			X			
1723-48	Exterior Window Glazing	Water Department			X			

Relinquished by:

Turnaround: Rush 24-Hr

48-Hr



FLI Environmental

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY RECORD

FLI Project #: 19-1723

Client: Forte Architecture + Design

Date: 6/7/2019

Site: Norwell Town Hall

Sampled by: Richard Bowen

345 Main Street, Norwell, MA

License #: A1061044

Sample # (s)	Material	Location A	Location B	Location C	Asbestos Analysis			
					PLM	TEM	Point Count	
1723-49	Exterior Louver Caulking	Rear, Near HR Entrance			X			
1723-50	Exterior Gray Flexible Window Caulking	Right Side			X			
1723-51	Exterior Expansion Joint Caulking	Rear, Near HR Entrance			X			
1723-52	Interior Caulking Around Glass Blocks	2nd Floor, Room 203			X			
1723-53	Interior Door Glazing	2nd Floor, Room 204			X			
1723-54	Interior Window Glazing	2nd Floor, Corridor			X			
1723-55A,B	Interior Dampproofing	2nd Floor, Girl's Room, Perimeter Wall	2nd Floor, Girl's Room, Perimeter Wall		X			
1723-56	Electrical Wiring Insulation	2nd Floor, Room 201, Lighting Fixtures			X			
1723-57	Gasket @ Glass Globe/Fixture Interface	2nd Floor, Room 201, HID Lighting Fixtures			X			

Relinquished by:

6-29-2019

Turnaround: Rush 24-Hr 48-Hr

Received by:

Richard Bowen 7/1/19

Date/Time

3-Day 4-Day 5-Day

Relinquished by:

Date/Time

Date Needed

Received by:

Date/Time

APPENDIX F

LICENSES AND CERTIFICATIONS



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

William D. McKinney,
Director

Asbestos Inspector

RICHARD K. BOWEN

Eff. Date 09/26/18

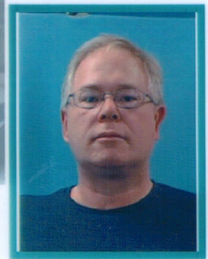
Exp. Date 09/25/19

AI061044

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

HV-R HV-09/19/19

19



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

William D. McKinney,
Director

Asbestos Designer

RICHARD K. BOWEN

Eff. Date 09/26/18

Exp. Date 09/25/19

AD061044

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

HV-R HV-09/12/19

19



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

William D. McKinney,
Director

Asbestos Management Planner

RICHARD K. BOWEN

Eff. Date 09/26/18

Exp. Date 09/25/19

AP061044

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

HV-R HV-09/19/19

19



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

William D. McKinney,
Director

Asbestos Project Monitor

RICHARD K. BOWEN

Eff. Date 09/26/18

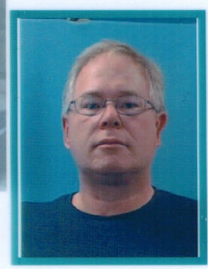
Exp. Date 09/25/19

AM061044

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

HV-R HV-09/18/19

19





THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS
19 STANIFORD STREET, BOSTON, MASSACHUSETTS 02114

CERTIFICATION FOR ASBESTOS ANALYTICAL SERVICES

ASBESTOS IDENTIFICATION LABORATORY
165 NEW BOSTON STREET
SUITE 227
WOBURN MA 01801

LICENSE: **AA000208**

EXPIRES: **Sunday, June 23, 2019**

IN ACCORDANCE WITH MGL CH. 149 § 6B AND 453 CMR 6.08 THIS CERTIFICATE IS ISSUED BY THE DEPARTMENT OF LABOR STANDARDS TO THE ABOVE NAMED ENTITY TO PROVIDE THE ASBESTOS ANALYTICAL SERVICES SPECIFICALLY LISTED BELOW.

CLASS A CERTIFICATE
CLASS C CERTIFICATE

A handwritten signature in cursive script that reads "William D. McKinney".

WILLIAM D. MCKINNEY, DIRECTOR

Mailing Address:

ASBESTOS IDENTIFICATION LABORATORY
165 NEW BOSTON STREET
SUITE 227
WOBURN, MA 01801

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200919-0

Asbestos Identification Laboratory

Woburn, MA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2018-07-01 through 2019-06-30

Effective Dates



A handwritten signature in blue ink, which appears to read "Peter S. Lamm".

For the National Voluntary Laboratory Accreditation Program