

June 9, 2021

Mr. Dave Groom Groom Constructions 96 Swampscott Road Salem, MA 01970

Ref.

Asbestos Survey Report

Residence

821 Massachusetts Ave.

Arlington, MA

#### Dear Mr. Groom:

Safety Environmental Consultants, (SEC) is pleased to present this letter report summarizing the findings of the testing and hazardous materials survey at above address.

The purpose of SEC's survey was to identify asbestos-containing materials that may be impacted by planned renovation or demolition activities at **the place.** 

At you requested SEC personnel Erick Estrada (MA Licensed Asbestos Inspector #900737) conducted an inspection in the area. The asbestos inspection was conducted in accordance with Massachusetts' regulations 453 CMR 6.00 and NESHAP regulations 29 CFR 1926.

On June 3, 2021, a total of 63 bulk samples were collected from materials suspected to contain asbestos.

### **ASBESTOS SURVEY**

A walkthrough visual survey was performed to identify suspect ACM in the whole place, that will be impacted by the planned demolition activities. Where feasible, bulk samples of suspect ACM were collected and analyzed to determine asbestos content. Suspect materials that were not sampled are assumed to contain asbestos and must be treated as ACM for removal and disposal purposes. Unless otherwise indicated, SEC's survey was limited to accessible suspect materials that may be impacted during proposed demolition activities.

#### Methods

The investigative work for the asbestos survey included conducting a limited visual inspection of physically accessible areas of the structure followed by limited destructive testing to allow access to inaccessible locations. Destructive testing included: looking under fiberglass insulation on HVAC units and pipes. Once the visual inspection was completed, the building components were categorized into homogeneous areas.



**Bulk Sample Collection and Analysis** 

SEC collected bulk samples of suspect building materials were collected in a random manner and submitted for laboratory analysis to determine asbestos content. The bulk samples were delivered under chain of custody to Asbestos Identification Laboratory, Inc. (AIL) located in Woburn, Massachusetts, a NVLAP-accredited laboratory for asbestos analysis. Bulk samples were analyzed for asbestos content by polarized light microscopy (PLM) using EPA Method 600/R-93/116. A positive stop method was used – if one sample in a homogeneous group is positive then additional samples of the same material are not analyzed. The asbestos analytical results are attached. Samples analyzed to contain any amount of asbestos are to be treated as ACMs as defined by the USEPA and Commonwealth of Massachusetts Department of Environmental Protection (MassDEP).

#### **Results-Discussion**

The US EPA defines ACM as any material that contains greater than one percent asbestos. The Massachusetts Department of Environmental Protection (MassDEP) defines ACM as any material that contains greater than or equal to one percent asbestos. The tables below provide a summary of suspect asbestos-containing materials that were observed within the survey area, location, approximate quantities, laboratory analysis results.

### **Findings**

The results of the laboratory analysis are provided in the below table:

Sample ID	Material Description	Location	Analytical Results	Approximate Quantity
1-A, B, C	Floor Tile 9x9	Basement	2 % Chrysotile	1300 SF
2-A, B, C	Mastic	Under Floor Tile 9x9 basement	None Detected	1300 SF
3-A, B, C	Drywall	Kitchen Basement	None Detected	80 SF
4 -A, B, C	Plaster	Ceiling Basement	None Detected	1300 SF
5- A, B, C	Pipe Insulation	Above Ceiling Basement	50 % Chrysotile	70 LF
6-A, B, C	Floor Tile	Front Entrance House	None Detected	30 SF
7-A, B, C	Tar Paper	Under Floor Tile Front Entrance House	None Detected	30 SF
8-A, B, C	Plaster	Walls All rooms 1st Floor	None Detected	5920 SF

NAD = No Asbestos Detected NQ = Not Quantified LF = Linear Feet SF = Square Feet



Sample ID	Material Description	Location	Analytical Results	Approximate .     Quantity
9-A, B, C	Plaster	Ceiling All rooms 1st Floor	None Detected	1406 SF
10-A, B, C	Glue	Under carpet all rooms 2nd floor	None Detected	1400 SF
11-A, B, C	Plaster	Ceiling 2nd floor	None Detected	1406 SF
12-A, B, C	Plaster	Walls All rooms 2nd Floor	None Detected	4200 SF
13-A, B, C	Glue	Behind ceramic tile wall bathroom 2nd floor	None Detected	70 SF
14-A, B, C	Floor Tiles	Bathroom 2nd floor	None Detected	20 SF
15-A, B, C	Tar Paper	Under floor tile bathroom 2nd floor	None Detected	20 SF
16-A, B, C	Plaster	Walls and ceiling attic	None Detected	3200 SF
17-A, B, C	Shingle Roof	Main roof	None Detected	1400 SF
18-A, B, C	Tar Paper	Under shingle roof	None Detected	1400 SF
19-A, B, C	Glazing	Exterior windows	2 % Chrysotile	36 Units
20-A, B, C	Shingle Roof	Flat roof front and right porch	5 % Chrysotile	300 SF
21-A, B, C	Tar Paper	Behind wood siding exterior house	<1 % Chrysotile	2300 SF

NAD = No Asbestos Detected NQ = Not Quantified LF = Linear Feet SF = Square Feet

# Sample results

Floor Tile 9x9 Chrysotile= 2%

Pipe Insulation Chrysotile= 50%

Glazing Chrysotile= 2%



# Sample results

Shingle Roof

Chrysotile= 5%

Tar Paper

Chrysotile= <1 %

## Quantities of results

Approximate quantities tested positive of asbestos:

N	Material Description	Location	Est. Quantity
1	Floor Tile x9	Basement	1300 SF
2	Pipe Insulation	Above Ceiling Basement	70 LF
3	Glazing	Exterior windows	36 Units
4	Shingle Roof	Flat roofs front and right porch	300 SF
5	Tar Paper	Behind wood siding exterior house	2300 SF

### Recommendations

- The US EPA and MassDEP require all ACM be removed from a facility prior to the start of
  renovation or demolition activities if the materials may be disturbed by these activities. A
  licensed Asbestos Removal Contractor should remove identified ACM prior to the start of
  renovation or demolition activities in accordance with federal, state, and local regulations.
- All suspect materials that contain any amount of asbestos must be considered asbestos if it is scheduled to be removed per the Departments of Environmental Protection (DEP) regulations.
- Additional suspect ACM may be present within the survey area in inaccessible areas (i.e., mechanical chases, behind solid walls, above solid ceilings, etc.) that were not identified during the survey. These areas should be investigated prior to the start of any work activities that may disturb these areas. If additional suspect ACM is encountered, then precautions should be taken to prevent the disturbance of the material and the suspect material should be sampled and analyzed to determine asbestos content.



• SEC recommends that other hazardous materials and items containing hazardous materials be recycled or removed and disposed of appropriately.

#### Limitations

The conclusions and recommendations are limited to the information available at the time of the field survey and the scope of services as defined. No subsurface soil or groundwater testing was performed. Reasonable measures were taken to detect the presence of all normally suspect materials within the survey area; however, additional materials may be enclosed in solid walls and ceilings or otherwise may be inaccessible and materials that are not normally suspect may contain asbestos.

Where access to portions of the Site or to structures on the site was unavailable or limited, SEC renders no opinion as to the presence of hazardous material or the presence of indirect evidence related to hazardous material in that portion of the site or structure. The testing performed forms the basis for conclusions expressed and areas inaccessible for testing limit those conclusions.

No other conclusions, interpretations or recommendations are contained or implied in this report other than those expressed. No other use of this report is warranted without the written consent of Safety Environmental Consultants,

SEC appreciates the opportunity to provide our services for your project.

Very truly yours,

Safety Environmental Consultants

Johnnie M. Lituma Services Manager

# June 09, 2021

Johnnie M. Lituma Safety Environmental Consultants P.O. Box 733 Methuen, MA 01844

Project Name:

821 Massachusetts Ave, Arlington, MA

**Project Number:** 

Date Sampled: 2021-06-03 2021-06-07 Work Received: 2021-06-08 Work Analyzed:

**Analysis Method:** 

BULK PLM ANALYSIS EPA/600/R-93/116

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1A	Floor Tile 9X9	Basement	tan	Non-Fibrous 98	Detected Chrysotile
723075 IB	Floor Tile 9X9	Basement			Not Analyzed
723076					
IC	Floor Tile 9X9	Basement			Not Analyzed
723077		T1 0 V0	2-11-		
2A 	Mastic	Under Floor Tile 9X9 Basement	black	Fiberglass 2 Non-Fibrous 98	None Detected
723078 2B	Mastic	Under Floor Tile 9X9 Basement	black	Fiberglass 2 Non-Fibrous 98	None Detected
723079 2C	Mastic	Under Floor Tile 9X9 Basement	black	Fiberglass 2	None Detected
723080					
3A	Drywall	Kitchen Basement	multi	Cellulose 20 Non-Fibrous 80	None Detected
723081 3B	Drywall	Kitchen Basement	multi	1	None Detected
723082				Non-Fibrous 80	
3C	Drywall	Kitchen Basement	multi	Cellulose 20 Non-Fibrous 80	None Detected
723083 4A	Plaster	Ceiling Basement	gray	i	None Detected
723084				Non-Fibrous 95	
4B	Plaster	Ceiling Basement	gray	Hair 5 Non-Fibrous 95	None Detected
723085 4C	Plaster	Ceiling Basement	gray		None Detected
723086				Non-Fibrous 95	5
5A	Pipe Insulation	Above Ceiling Basement	gray		Detected Chrysotile 5
723087 5 <b>B</b>	Pipe Insulation	Above Ceiling Basement			Not Analyzed
723088					

ieldID	Material	Location	Color	Non-Asbestos	%	Asbestos %
LabID						
С	Pipe Insulation	Above Ceiling Basement				Not Analyzed
723089						
A 723003	Floor Tile	Front Entrance House	gray	Non-Fibrous	100	None Detected
723090						
723090 B	Floor Tile	Front Entrance House	gray	Non-Fibrous	100	None Detected
			,			
723091 C	Floor Tile	Front Entrance House	gray	Non-Fibrous	100	None Detected
	T TOO! THE	Tront Entrance Flouse	gruy	1,011 1221045	100	
723092	T D		1-11-	G-13-7		T D. b
Α	Tar Paper	Under Floor Tiles Front Entrance House	black	Cellulose Non-Fibrous	20	None Detected
723093						
B 	Tar Paper	Under Floor Tiles Front Entrance House	black	Cellulose Non-Fibrous	80 20	None Detected
723094						
C	Tar Paper	Under Floor Tiles Front Entrance House	black	Cellulose Non-Fibrous	80 20	None Detected
723095		Entrance House		NOII-FIDFOUS	20	
A	Plaster	Walls All Rooms 1st Floor	multi	Hair		None Detected
723096				Non-Fibrous	95	
B	Plaster	Walls All Rooms 1st Floor	multi	Hair	10	None Detected
20200				Non-Fibrous	90	
723097 C	Plaster	Walls All Rooms 1st Floor	multi	Hair	5	None Detected
				Non-Fibrous	95	
723098 A	Plaster	Ceiling All Room 1st Floor	multi	Hair	<u> </u>	None Detected
, , , , , , , , , , , , , , , , , , ,	Fidate	Centry All (Com 13t 100)	mun	Non-Fibrous	95	None Beecee
723099		0.3241.024.51		** *		
8 	Plaster —	Ceiling All Rooms 1st Floor	muiti	Hair Non-Fibrous	5 95	None Detected
723100						
)C	Plaster	Ceiling All Rooms 1st Floor	multi	Hair Non-Fibrous	5 95	None Detected
723101				Non Fibroas		
0A	Glue	Under Carpet All Rooms	yellow	Non-Fibrous	100	None Detected
723102		2nd Floor				
0B	Glue	Under Carpet All Rooms	yellow	Non-Fibrous	100	None Detected
723103		2nd Floor				
0C	Glue	Under Carpet All Rooms	yellow	Non-Fibrous	100	None Detected
700101		2nd Floor				
723104 1A	Plaster	Ceiling 2nd Floor	multi	Hair	10	None Detected
				Non-Fibrous	90	
723105 1 <b>B</b>	Plaster	Ceiling 2nd Floor	multi	Hair	1 0	None Detected
, 10	- Irasiei	Connig Zilu Floor	mulu	Non-Fibrous	90	
723106						ge 2 of 4

ieldlD	Material	Location	Color	Non-Asbestos	%	Asbestos %
LabiD						
1C	Plaster	Ceiling 2nd Floor	multi	Hair Non-Fibrous	5 95	None Detected
723107 2 <b>A</b>	Plaster	Walls All Rooms 2nd Floor	multi	Hair Non-Fibrous	5 95	None Detected
723108 2B	Plaster	Walls All Rooms 2nd Floor	multi	Hair		None Detected
723109				Non-Fibrous	95	
?C	Plaster	Walls All Rooms 2nd Floor	multi	Hair Non-Fibrous	5 95	None Detected
723110 3 <b>A</b>	Glue	Behind Ceramic Tile Wall Bathroom 2nd Floor	yellow	Non-Fibrous	100	None Detected
723111 BB	Glue	Behind Ceramic Tile Wall Bathroom 2nd Floor	yellow	Non-Fibrous	100	None Detected
723112 BC	Glue	Behind Ceramic Tile Wall Bathroom 2nd Floor	yellow	Non-Fibrous	100	None Detected
723113 1A	Floor Tiles	Bathroom 2nd Floor	gray	Non-Fibrous	100	None Detected
723114 IB	Floor Tiles	Bathroom 2nd Floor	gray	Non-Fibrous	100	None Detected
723115 4C	Floor Tiles	Bathroom 2nd Floor	gray	Non-Fibrous	100	None Detected
723116						
5A	Tar Paper	Under Floor Tile Bathroom 2nd Floor	black	Cellulose Non-Fibrous	80 20	None Detected
723117 5B	Tar Paper	Under Floor Tile Bathroom 2nd Floor	black	Cellulose Non-Fibrous	80 20	None Detected
723118 SC	Tar Paper	Under Floor Tile Bathroom 2nd Floor	black	Cellulose Non-Fibrous	80 20	None Detecteó
723119 6A	Plaster	Walls and Ceiling Attic	multi	Hair Non-Fibrous	5 95	None Detected
723120 6B	Plaster	Walls and Ceiling Attic	multi	Hair Non-Fibrous	5 95	None Detected
723121 SC	Plaster	Walls and Ceiling Attic	multi	Hair Non-Fibrous	5 95	None Detected
723122 7A	Shingle Roof	Main Roof	black	Cellulose Non-Fibrous	20 80	None Detected
723123 7B	Shingle Roof	Main Roof	black	Cellulose Non-Fibrous		None Detected

FieldID	Material	Location	Color	Non-Asbestos	% Asbestos %	
LabID						
17C	Shingle Roof	Main Roof	black	Cellulose Non-Fibrous	20 None Detected	d
723125				- 12 2		_
18A	Tar Paper	Under Shingle Roof	black	Cellulose Non-Fibrous	70 None Detected	ci.
723126 18B	Tar Paper	Under Shingle Roof	black	Cellulose	70 None Detected	d
		January Chinnight (1997)		Non-Fibrous	30	
723127			<u> </u>			
18C	Tar Paper	Under Shingle Roof	black	Cellulose Non-Fibrous	70 None Detected	d
723128			1			
19A	Glazing	Exterior Windows	multi	Non-Fibrous	98 Detected Chrysotile	2
723129 19B	Glazing	Exterior Windows		·	Not Analyzed	
190	Glazing	Exterior Windows			NOC ANALYZEG	
723130						
19C	Glazing	Exterior Windows			Not Analyzed	
723131						
20A	Shingle Roof	Flat Roof Front and Right Side Porch	black	Cellulose Non-Fibrous	10 Detected 85 Chrysotile	5
723132						
20B	Shingle Roof	Flat Roof Front and Right Side Porch			Not Analyzed	
723133						
20C	Shingle Roof	Flat Roof Front and Right Side Porch			Not Analyzed	
723134						
21A	Tar Paper	Behind Wood Siding Exterior House	black	Cellulose Non-Fibrous	70 None Detected	d
723135		Exterior Flouse		Non-Fibrous	30	
21B	Tar Paper	Behind Wood Siding	black	Cellulose	70 Detected	
<u> </u>		Exterior House		Non-Fibrous	30 Chrysotile <	1.
723136 21C	Tor Donor	Behind Wood Siding	black	Cellulose	70 Detected	
	Tar Paper	Exterior House	DIACK	Non-Fibrous	30 Chrysotile <	1
723137						

Wednesday 09 June

Analyzed by:

Erik Gogas

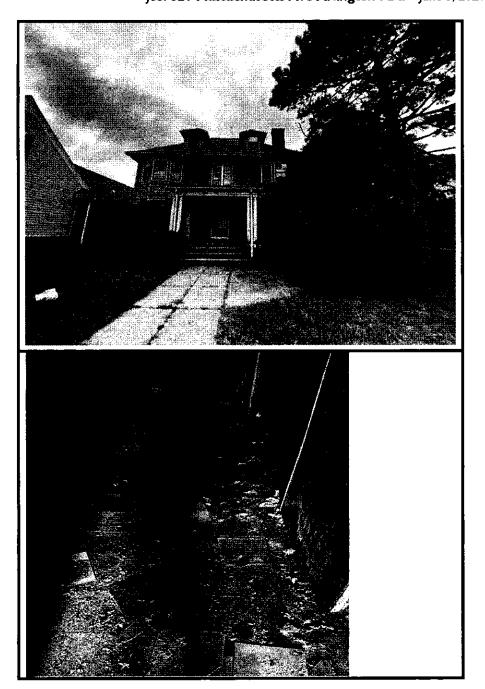
End of Report

Batch: 65046

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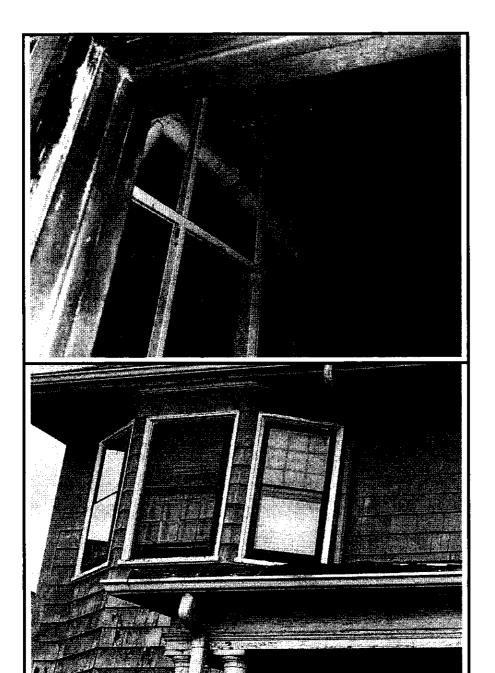
SEC	Same Special	EHAÎN-OF CUSI	Юру			
Safety Environmental Co	nsulfants≈‡	Invoice to: 500.	Page Lot-/			
Project Name: Nestdence		Date Sampled: 06-03-21				
Address: 821 Massachuseil Al	1 Arlingion MA		icense #: 900737			
The scope of work was to identify the in the whole place. Is it a full inspect	suspected material	The scope of work was to identify the s	uspected material only			
Sample * Material *	ASSESSMENT OF THE PROPERTY OF	in the locations determined by the Sample Eccations Description	Quantity			
1 1A,B,C PloorTilE 9X9	Basement					
2 2 ARR Mastic		ille 9x9 Basenen	1,300%			
3 3 ABC Drywall	Kirchen Ba		1,300 SF 80 SF			
44 ABR Plasier	Cailing Ba		1300 57			
5 5 ABR PiPe insulation	Above Calio		70 LF			
6 6 A.B.S (POOR TILE	Front Entrain		30 55			
77ABC TOF POPER	· · · · · ·	Tiles from Garage how				
	wells all ro		592055			
	deiling all	* ***	1406 5			
10 10 A.B.C TOLUE		` ` ` `	20/ 1400 ST			
11 11 ABR PLESTER	Cailing 26		1406 5			
12/2 ABC PLETER	~J	rooms 22 Floor	4200 SF			
13 13 A,B,C Glue		anic Tile well Bailroom	ZIL GON 70 SF			
14 14 A.B.C GLOOF TILES	Bailwoon	. ^	20 57			
15 15 ABL I ar Pager	under floor	TILE BEMEOOM 2-2 (16	00 SF			
16 16 ABR PLASIES		cailing Prilice	3,200 47			
17 17 A.B.C Shingle roof	Main ro	ροξ <sup>Δ</sup>	1400 SP			
	under shin	9/E 500F	1400 57			
19 19 ABIC Colazing	Exterior u	1:- Jows	36 Units			
20 20 ABC Shingle 5006	Flai roofs	front and Right Pooch	€ 3005F			
21 21 ABIC TOF TORET	Balaind WE	od Siding Eiterior H	230057			
22						
Notes or comments						
Turn Around Fine Sample Method &						
Less 3 Hours Same Day Next Day - Two Days   Bulk Soil Wipe Point Count						
o. Samples submitted: 63 Yes or No - Positive stop by Homogeneous # shown						
SAMPLED BY: (SIGNATURE) EXICA ESTRADA	(SIGNATURE) Exica Estada Dio 03-31 (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED IN LAB BY: (SIGNATURE) MASS WILLIAM STATES OF THE	DATE/TIME			

Residence
Job: 821 Massachusetts Ave Arlington MA. – June 3, 2021



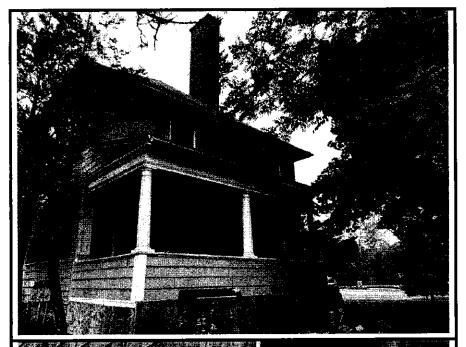
Front of the Residence

Basement Sample #1 A, B, C

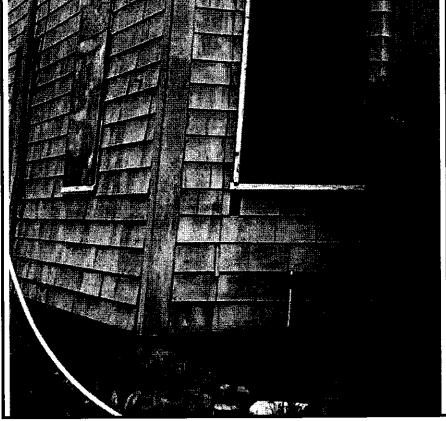


Above Ceiling Basement Sample #5 A, B, C

Exterior Windows Sample #19 A, B, C



Flat Roof front and right-side porch Sample #20 A, B, C



Behind Wood Siding Exterior House Samples #21 A, B, C