



# ASBESTOS INSPECTION REPORT

**Northgate Terrace**  
**4301 Whittle Springs Road**  
**Knoxville, Tennessee 37917**

*Prepared for:*

**AEI Consultants**  
**2500 Camino Diablo Suite 100**  
**Walnut Creek, California 94597**

Inspection Date: **June 14-15, 2021**

Report Date: **July 19, 2021**

*Inspected by:*

A handwritten signature in black ink, appearing to read "Kyle Reynolds".

**Kyle Reynolds**

Tennessee-licensed Asbestos Building Inspector, #A-I-147193-97385  
(Expires on 11/30/2021)

OSE Project Number 21-1178  
AEI Job Number 433560 - Task 6

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## EXECUTIVE SUMMARY

On June 14-15, 2021, One Source Environmental, LLC (a State of Tennessee Department of Environment and Conservation (TDEC) licensed Asbestos Firm #A-F-140-103182) performed a limited scope asbestos survey of Northgate Terrace, located at 4301 Whittle Springs Road in Knoxville, Tennessee. The objective of the survey was to provide documentation to the Client consisting of a listing of suspect asbestos containing materials located at the facility. Inspection activities were limited to accessible areas of the building with no destructive investigation of hidden spaces (inside wall cavities, hard deck ceilings, etc.). Sampling was conducted in general accordance with practices described within the ASTM Standard Practice for Comprehensive Asbestos Building Surveys Designation: E 2356-18 (ASTM E 2356-18) for Baseline Surveys.

Inspection activities were performed by Mr. Kyle Reynolds, TDEC licensed Asbestos Inspector (#A-I-147193-97385). Copies of current certifications can be found in Appendix B.

Inspection, sampling, material condition assessments, and analytical procedures for asbestos-containing building materials were performed in general accordance with the EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP) - EPA Title 40, Code of Federal Regulations (CFR), Part 61 Subpart M (40 CFR Part 61, Subpart M), the EPA AHERA regulation (40 CFR Part 763), the Federal Occupational Safety and Health Administration (OSHA) (29 CFR 1926.1101) guidelines, and ASTM E2356-18.

Samples were analyzed via Polarized Light Microscopy (PLM) via EPA Method 600//M4-82-020. In addition, two (2) non-friable organically bound (NOB) materials (leveling compound and vinyl floor tile), which was not identified as an ACM via PLM analysis was analyzed via Transmission Electron Microscopy (TEM). A total of thirty-two (32) bulk samples were collected during this inspection and fifty-six (56) individual sample layers were analyzed via PLM. Two (2) samples of NOB materials were additionally analyzed via TEM.

### **Asbestos was identified within the following materials:**

Material	Location	Percentage/ Type*	Material Condition	Quantity	NESHAP Category
Joint Compound	Walls Throughout Units, Bathroom Ceilings in Units and Walls Throughout Common Areas	2% Chrysotile	Good	325,000 SF	RACM
Ceiling Texture	Ceilings Throughout Units except Baths and Most Floor Hallways	2% - 3% Chrysotile	Good	115,000 SF	RACM
2'x4' Ceiling Tiles	7 <sup>th</sup> Floor Hallways	2% Amosite 8% Chrysotile	Damaged	4500 SF	RACM

\* Laboratory analytical data sheets should be reviewed for potential asbestos content within individual layers of a sample for each material. Analysis of an individual layer of a material may exceed 1% while the composite analysis of the material as a whole is below 1%. Laboratory analytical data sheets are presented within Appendix A.

Material	Location	Percentage/ Type*	Material Condition	Quantity	NESHAP Category
2'x4' Ceiling Tiles	7 <sup>th</sup> Floor Hallways	2% Amosite 8% Chrysotile	Damaged	4500 SF	RACM

**Asbestos was presumed to be present within the following materials:**

Material	Location	Percentage/ Type*	Material Condition	Quantity	NESHAP Category
Assorted Vinyl Floor Tiles and assoc. Mastic	Hallways (except 1 <sup>st</sup> FL) and Units (except Bathrooms)	PACM	Good	135,000 SF	Cat. I NF ACM
4" Cove Baseboard and assoc. Mastic	Elevator Landings & Maintenance Workshop	PACM	Good	250 LF	Cat. I NF ACM
Black Undersink Coating	Unit Kitchen Sinks	PACM	Good	1/unit (where present)	Cat. II NF ACM
EPDM Roofing and assoc. Materials	Roof	PACM	Good	13,000 SF	Cat. II NF ACM
Window Caulking	Exterior Window Perimeters	PACM	Good	All Exterior Windows	Cat. II NF ACM

Asbestos containing material (ACM) as defined by the EPA and OSHA are materials with an asbestos concentration of greater than 1% (>1%) as analyzed by polarized light microscopy (PLM). In addition, ACM is designated as follows for NESHAP compliance:

**Friable asbestos** - material which can be crumbled, pulverized or reduced to powder by hand pressure, a.k.a. Regulated Asbestos Containing Materials (RACM)

**Category I non-friable** - includes resilient floor coverings, asphalt roofing products, gaskets and packings.

**Category II non-friable** - any non-friable ACM that is not in Category I (i.e. transite siding material).

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\* Laboratory analytical data sheets should be reviewed for potential asbestos content within individual layers of a sample for each material. Analysis of an individual layer of a material may exceed 1% while the composite analysis of the material as a whole is below 1%. Laboratory analytical data sheets are presented within Appendix A.  
 Asbestos Inspection Report  
 Northgate Terrace – Knoxville, TN

## **INTRODUCTION**

An asbestos survey was completed for AEI Consultants (Client) on June 14-15, 2021, at the Northgate Terrace located at 4301 Whittle Springs Road in Knoxville, Tennessee, by One Source Environmental, LLC. The inspection included interior and exterior building materials. Please note the inspection was limited in scope and may not be adequate under U.S. EPA regulations for demolition or renovation purposes.

Northgate Terrace consists of one building with fourteen stories that was reportedly built in 1969. The property contains 277 units. Interior finishes of the property consist of: drywall and concrete block walls; acoustic ceiling tile, plastic ceiling tile and drywall ceilings; ceramic tile, vinyl floor tile and concrete flooring; and wood and vinyl baseboards. Exterior finishes at the property consist of: concrete siding; metal windows; metal doors; and membrane roofing.

Inspection activities were performed by Mr. Kyle Reynolds, a Tennessee licensed Asbestos Building Inspector in approximately 15% of the units, as well as common areas. Copies of current Certifications can be found in Appendix B.

## **SUSPECT ASBESTOS CONTAINING MATERIALS**

The following suspect asbestos containing materials were identified:

<b>Northgate Terrace 4301 Whittle Springs Road, Knoxville, Tennessee</b>	
Drywall, Joint Compound, Tape and Texture	Ceiling Texture
2'x4' Ceiling Tile	2'x2 White Ceiling Tile
2'x2' Black Ceiling Tile	White Floor Leveling Compound and assoc. Yellow Mastic
Beige 12"x12" Vinyl Floor Tile	Hard Joint Pipe Elbow
Assorted Vinyl Floor Tiles and assoc. Mastics	Black 4" Cove Base and assoc. Mastic
EPDM Roofing and assoc. Materials	Window Caulking
Black Undersink Coating	

## **SAMPLED SUSPECT MATERIALS**

Samples of the following suspect materials were collected:

<b>Northgate Terrace 4301 Whittle Springs Road, Knoxville, Tennessee</b>	
Drywall, Joint Compound, Tape and Texture	Ceiling Texture
2'x4' Ceiling Tile	2'x2 White Ceiling Tile
2'x2' Black Ceiling Tile	Hard Joint Pipe Elbow
Beige 12"x12" Vinyl Floor Tile (Damaged)	White Floor Leveling Compound and assoc. Yellow Mastic (Damaged)

## **SAMPLING AND ANALYTICAL PROCEDURES**

### **Sampling Procedures**

Representative bulk samples of suspect ACMs were randomly collected from the interior of the inspected space. Homogenous material determinations were assessed based on the following criteria:

- Similar physical characteristics (same color and texture, etc.);
- Application (sprayed-on, troweled-on, assembly into a system, etc.); and
- Material function (thermal insulation, floor tile, wall or ceiling system, etc.).

Once collected, all bulk samples were appropriately labeled and shipped to an accredited analytical laboratory for analysis. All sampled building materials were also characterized for condition and approximate quantity on-site during the inspection(s).

### **PLM & TEM Analysis Methodology**

Laboratory services were provided by EMSL Analytical, Inc., located in Cinnaminson, New Jersey, a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory (NVLAP #101048-0).

Each bulk sample was analyzed by polarized light microscopy (PLM) in accordance with the United State Environmental Protection Agency's (EPA's) Test Methods: Methods for the determination of Asbestos in Bulk Building Materials (EPA 600/M4-82-020, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas. Additional treatment(s) and test(s) were performed as required to accurately define material composition (i.e. ashing, extraction, acetone treatment, point counting, and/or transmission electron microscopy [TEM]).

Analysis consisted of using the bulk sample for visual observation and slide preparation(s) for microscopic examination and identification. All samples were analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.), and non-fibrous constituents. Using a stereoscope, the microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample.

Due to the limitations of PLM analysis, non-friable organically bound (NOB) materials (i.e. floor tiles, cove base, mastics, roofing materials, caulks, etc.) found to contain no asbestos via PLM analysis, the ASTM Standard Practice for Comprehensive Asbestos Building Surveys Designation: E 2356-18 (ASTM E 2356-18) recommends that these materials and any related results be considered as inconclusive unless Transmission Electron Microscopy (TEM) analysis is performed. Tennessee and EPA regulations do not require additional TEM analysis of NOB materials. Further analysis of NOB materials is left to the discretion of the client.

## FINDINGS

### Interpretation of Asbestos Results

Federal OSHA, EPA and the State of Tennessee define an ACM as any material containing >1% asbestos. The lower limit of reliable detection for friable asbestos using the PLM analytical method is 1.0% by volume. If “<1%” appears in this report, it should be interpreted as meaning that asbestos was present in the sample, but the exact percentage is unknown.

Furthermore, per EPA NESHAP regulations, friable material with a PLM-derived asbestos concentration of <10% must be assumed to be ACM until it is point counted to more precisely determine the actual asbestos content. If this material is found to contain less than 1% asbestos by point counting, then it may be disposed of as non-hazardous waste. Any sample can be subjected to the more stringent Point Count Method of analysis to more precisely determine the actual asbestos content.

Although a material may contain asbestos at <1%, it **DOES NOT** relieve contractors from performing exposure assessments (personal air monitoring) on their employees per the OSHA Asbestos Standard (29 CFR 1926.1101) and should not be interpreted as asbestos is not present. Although laboratory analysis may indicate “<1%”, airborne asbestos concentrations still may exceed the OSHA Permissible Exposure Limit (PEL) depending on the work activity.

### Asbestos was present or presumed to be present within the following materials:

<b>Northgate Terrace 4301 Whittle Springs Road, Knoxville, Tennessee</b>	
<b>Material</b>	<b>Location</b>
Joint Compound	Walls Throughout Units, Bathroom Ceilings in Units and Walls Throughout Common Areas
Ceiling Texture	Ceilings Throughout Units except Baths and Most Floor Hallways
2’x4’ Ceiling Tiles	7 <sup>th</sup> Floor Hallway
Assorted Vinyl Floor Tiles and assoc. Mastic	Hallways (except 1st FL) and Units (except Bathrooms)
4” Cove Baseboard and assoc. Mastic	Elevator Landings & Maintenance Workshop
Black Undersink Coating	Unit Kitchen Sinks
EPDM Roofing and assoc. Materials	Roof
Window Caulking	Exterior Window Perimeters

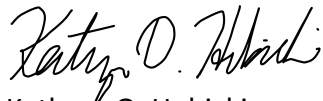
## CONCLUSIONS AND RECOMMENDATIONS

Results of analysis confirmed asbestos was identified in concentrations greater than 1% in some of the materials sampled and presumed to be present in other materials that were not sampled. Materials uncovered during renovation or demolition activities that are not addressed in this inspection report must be sampled by an accredited asbestos inspector prior to any disturbance

or treated as asbestos-containing materials. This survey was non-destructive in nature, in that walls or other structural elements were not disturbed to locate hidden materials.

We appreciate the opportunity to assist you with your environmental compliance needs. If you have any questions or comments, please feel free to contact us.

Sincerely,  
**One Source Environmental, LLC**



Kathryn O. Hubicki  
President  
TN Asbestos Inspector #A-I-73297-92384

### **DISCLAIMER**

The content presented in this report is based on data collected during the site inspection and survey, review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided by the Client, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. One Source Environmental believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information of other parties.

This hazardous materials survey report is designed to aid the property owner, architect, construction manager, general contractor, and asbestos abatement contractor in locating ACM. This report is not intended for, and may not be utilized as a bidding document or as an abatement project specification document.



**SAMPLE TABLE**

Northgate Terrace - 4301 Whittle Springs Road, Knoxville, Tennessee					
Sample #	Sample Location	Layer #	Description	Asbestos Type	Asbestos %
1	14th FL Hallway	1	Ceiling Texture	N/A	No Asbestos Detected (NAD)
<b>2</b>	<b>14th FL Hallway</b>	<b>1</b>	<b>Ceiling Texture</b>	<b>Chrysotile</b>	<b>3%</b>
3	Unit 1311 Closet	1	Drywall	N/A	NAD
3	Unit 1311 Closet	2	Tape	N/A	NAD
<b>3</b>	<b>Unit 1311 Closet</b>	<b>3</b>	<b>Joint Compound</b>	<b>Chrysotile</b>	<b>2%</b>
3	Unit 1311 Closet	4	Texture	N/A	NAD
<b>4</b>	<b>13th FL Hallway</b>	<b>1</b>	<b>Ceiling Texture</b>	<b>Chrysotile</b>	<b>2%</b>
5	Unit 1109	1	Drywall	N/A	NAD
5	Unit 1109	2	Tape	N/A	NAD
<b>5</b>	<b>Unit 1109</b>	<b>3</b>	<b>Joint Compound</b>	<b>Chrysotile</b>	<b>2%</b>
5	Unit 1109	4	Texture	N/A	NAD
6	Unit 1006 Kitchen	1	Drywall	N/A	NAD
<b>6</b>	<b>Unit 1006 Kitchen</b>	<b>2</b>	<b>Tape</b>	<b>N/A</b>	<b>NAD</b>
6	Unit 1006 Kitchen	<b>3</b>	<b>Joint Compound</b>	<b>Chrysotile</b>	<b>2%</b>
6	Unit 1006 Kitchen	4	Texture	N/A	NAD
<b>7</b>	<b>8th FL Hallway</b>	<b>1</b>	<b>Ceiling Texture</b>	<b>Chrysotile</b>	<b>2%</b>
8	Unit 910 Kitchen	1	Drywall	N/A	NAD
8	Unit 910 Kitchen	2	Tape	N/A	NAD
<b>8</b>	<b>Unit 910 Kitchen</b>	<b>3</b>	<b>Joint Compound</b>	<b>Chrysotile</b>	<b>2%</b>
8	Unit 910 Kitchen	4	Texture	N/A	NAD
<b>9</b>	<b>9th FL Hallway</b>	<b>1</b>	<b>Ceiling Texture</b>	<b>Chrysotile</b>	<b>2%</b>
10	Unit 805 Kitchen	1	Drywall	N/A	NAD
10	Unit 805 Kitchen	2	Joint Compound	N/A	NAD
10	Unit 805 Kitchen	3	Tape	N/A	NAD
10	Unit 805 Kitchen	4	Texture	N/A	NAD
11	Unit 812 Living Room	1	Drywall	N/A	NAD
11	Unit 812 Living Room	2	Tape	N/A	NAD
<b>11</b>	<b>Unit 812 Living Room</b>	<b>3</b>	<b>Joint Compound</b>	<b>Chrysotile</b>	<b>2%</b>
11	Unit 812 Living Room	4	Texture	N/A	NAD

Northgate Terrace - 4301 Whittle Springs Road, Knoxville, Tennessee					
Sample #	Sample Location	Layer #	Description	Asbestos Type	Asbestos %
12	7th FL Hallway	1	2'x4' Ceiling Tile	Amosite / Chrysotile	2% / 8%
13	7th FL Hallway	1	2'x4' Ceiling Tile	Amosite / Chrysotile	2% / 8%
14	7th FL Hallway	1	2'x4' Ceiling Tile	Amosite / Chrysotile	2% / 8%
15	2nd FL Goodwill	1	Drywall	N/A	NAD
15	2nd FL Goodwill	2	Joint Compound	N/A	NAD
15	2nd FL Goodwill	3	Tape	N/A	NAD
15	2nd FL Goodwill	4	Texture	N/A	NAD
16	2nd FL Goodwill	1	Ceiling Texture	N/A	NAD
17	1st FL Hallway	1	2'x2' White Ceiling Tile	N/A	NAD
18	1st FL Hallway	1	2'x2' White Ceiling Tile	N/A	NAD
19	1st FL Hallway	1	2'x2' White Ceiling Tile	N/A	NAD
20	1st FL Main Hallway	1	2'x2' Black Ceiling Tile	N/A	NAD
21	1st FL Main Hallway	1	2'x2' Black Ceiling Tile	N/A	NAD
22	1st FL Main Hallway	1	2'x2' Black Ceiling Tile	N/A	NAD
23	2nd FL Hallway	1	Ceiling Texture	Chrysotile	2%
24	Basement Hallway	1	White Floor Leveling Compound	N/A	NAD*
24	Basement Hallway	2	Yellow Mastic	N/A	NAD
25	Basement Hallway	1	White Floor Leveling Compound	N/A	NAD
25	Basement Hallway	2	Yellow Mastic	N/A	NAD
26	Basement Hallway	1	White Floor Leveling Compound	N/A	NAD
26	Basement Hallway	2	Yellow Mastic	N/A	NAD
27	Basement Hallway	1	Beige 12"x12" Vinyl Floor Tile	N/A	NAD*
28	Basement Hallway	1	Beige 12"x12" Vinyl Floor Tile	N/A	NAD
29	Basement Hallway	1	Beige 12"x12" Vinyl Floor Tile	N/A	NAD
30	Basement	1	Hard Joint Pipe Elbow	N/A	NAD
31	Basement	1	Hard Joint Pipe Elbow	N/A	NAD
32	Basement	1	Hard Joint Pipe Elbow	N/A	NAD

\*confirmed by TEM analysis

## **APPENDIX A**

### **LABORATORY ANALYTICAL DATA**



# EMSL Analytical, Inc.

200 Route 130 North Hammon, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 042114709

Customer ID: AEIC62

Customer PO: 80.020000-0290B

Project ID:

**Attention:** Staige Miller  
AEI Consultants  
2500 Camino Diablo  
Suite 100  
Walnut Creek, CA 94597

**Phone:** (804) 938-3935

**Fax:**

**Received Date:** 06/17/2021 9:40 AM

**Analysis Date:** 06/18/2021 - 06/20/2021

**Collected Date:**

**Project:** Northgate Terrace / 433560 / 4301 Whittle Springs Road, Knoxville, TN

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1 042114709-0001	14th Floor Hallway - Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: A1		
2 042114709-0002	14th Floor Hallway - Ceiling Texture	White Non-Fibrous Homogeneous		3% Vermiculite 94% Non-fibrous (Other)	3% Chrysotile
			HA: A2		
3-Drywall 042114709-0003	Unit 1311 Closet - Drywall	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
			HA: B1		
3-Tape 042114709-0003A	Unit 1311 Closet - Tape	White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
			HA: B1		
3-Joint Compound 042114709-0003B	Unit 1311 Closet - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: B1		
3-Texture 042114709-0003C	Unit 1311 Closet - Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: B1		
4 042114709-0004	13th Floor Hall - Ceiling Texture	White Non-Fibrous Homogeneous		5% Vermiculite 93% Non-fibrous (Other)	2% Chrysotile
			HA: A3		
5-Drywall 042114709-0005	Unit 1109 - Drywall	Brown/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
			HA: B2		
5-Tape 042114709-0005A	Unit 1109 - Tape	White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: B2		
5-Joint Compound 042114709-0005B	Unit 1109 - Joint Compound	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: B2		
5-Texture 042114709-0005C	Unit 1109 - Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: B2		
6-Drywall 042114709-0006	Unit 1106 Kitchen - Drywall	Brown/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
			HA: B3		

Initial report from: 06/20/2021 11:11:50



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

**EMSL Order:** 042114709  
**Customer ID:** AEIC62  
**Customer PO:** 80.020000-0290B  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6-Joint Compound <small>042114709-0006A</small>	Unit 1106 Kitchen - Joint Compound	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: B3		
6-Tape <small>042114709-0006B</small>	Unit 1106 Kitchen - Tape	White Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
			HA: B3		
6-Texture <small>042114709-0006C</small>	Unit 1106 Kitchen - Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: B3		
7 <small>042114709-0007</small>	8th Floor Hall - White Ceiling Texture	White Non-Fibrous Homogeneous		5% Vermiculite 93% Non-fibrous (Other)	2% Chrysotile
			HA: A4		
8-Drywall <small>042114709-0008</small>	Unit 910 Kitchen - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
			HA: B4		
8-Joint Compound <small>042114709-0008A</small>	Unit 910 Kitchen - Joint Compound	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: B4		
8-Tape <small>042114709-0008B</small>	Unit 910 Kitchen - Tape	White Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: B4		
8-Texture <small>042114709-0008C</small>	Unit 910 Kitchen - Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: B4		
9 <small>042114709-0009</small>	9th Floor Hall - Ceiling Texture	White Non-Fibrous Homogeneous		5% Vermiculite 93% Non-fibrous (Other)	2% Chrysotile
			HA: A5		
10-Drywall <small>042114709-0010</small>	Unit 805 Kitchen - Drywall	Brown/White Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
			HA: B5		
10-Joint Compound <small>042114709-0010A</small>	Unit 805 Kitchen - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: B5		
10-Tape <small>042114709-0010B</small>	Unit 805 Kitchen - Tape	White Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: B5		
10-Texture <small>042114709-0010C</small>	Unit 805 Kitchen - Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: B5		
11-Drywall <small>042114709-0011</small>	Unit 812 LR - Drywall	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
			HA: B6		

Initial report from: 06/20/2021 11:11:50



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

**EMSL Order:** 042114709  
**Customer ID:** AEIC62  
**Customer PO:** 80.020000-0290B  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
11-Joint Compound <small>042114709-0011A</small>	Unit 812 LR - Joint Compound	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			<small>HA: B6</small>		
11-Tape <small>042114709-0011B</small>	Unit 812 LR - Tape	White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			<small>HA: B6</small>		
11-Texture <small>042114709-0011C</small>	Unit 812 LR - Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			<small>HA: B6</small>		
12 <small>042114709-0012</small>	7th Floor Hall - 2x4 Ceiling Tile	Gray/White Fibrous Homogeneous	60% Min. Wool	30% Non-fibrous (Other)	2% Amosite 8% Chrysotile
			<small>HA: C1</small>		
13 <small>042114709-0013</small>	7th Floor Hall - 2x4 Ceiling Tile	Gray Fibrous Homogeneous	60% Min. Wool	30% Non-fibrous (Other)	2% Amosite 8% Chrysotile
			<small>HA: C2</small>		
14 <small>042114709-0014</small>	7th Floor Hall - 2x4 Ceiling Tile	Gray Fibrous Homogeneous	50% Min. Wool	40% Non-fibrous (Other)	2% Amosite 8% Chrysotile
			<small>HA: C3</small>		
15-Drywall <small>042114709-0015</small>	2nd Floor Goodwill - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
			<small>HA: B7</small>		
15-Joint Compound <small>042114709-0015A</small>	2nd Floor Goodwill - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			<small>HA: B7</small>		
15-Tape <small>042114709-0015B</small>	2nd Floor Goodwill - Tape	White Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
			<small>HA: B7</small>		
15-Texture <small>042114709-0015C</small>	2nd Floor Goodwill - Tape	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			<small>HA: B7</small>		
16 <small>042114709-0016</small>	2nd Floor Goodwill - Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			<small>HA: A6</small>		
17 <small>042114709-0017</small>	1st Floor Hall - 2x2 Ceiling Tile	Brown/White Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
			<small>HA: D1</small>		
18 <small>042114709-0018</small>	1st Floor Hall - 2x2 Ceiling Tile	Brown/White Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
			<small>HA: D2</small>		
19 <small>042114709-0019</small>	1st Floor Hall - 2x2 Ceiling Tile	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
			<small>HA: D3</small>		

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**EMSL Order:** 042114709  
**Customer ID:** AEIC62  
**Customer PO:** 80.020000-0290B  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
20 <small>042114709-0020</small>	Main Hall 1st Floor - 2x2 Black Ceiling Tile	Gray/Black Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
			HA: E1		
21 <small>042114709-0021</small>	Main Hall 1st Floor - 2x2 Black Ceiling Tile	Gray/Black Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
			HA: E2		
22 <small>042114709-0022</small>	Main Hall 1st Floor - 2x2 Black Ceiling Tile	Gray/Black Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
			HA: E3		
23 <small>042114709-0023</small>	2nd Floor - White Ceiling Texture	White Non-Fibrous Homogeneous		5% Vermiculite 93% Non-fibrous (Other)	2% Chrysotile
			HA: A7		
24-Leveler <small>042114709-0024</small>	Basement - White Floor Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F1		
24-Mastic <small>042114709-0024A</small>	Basement - White Floor Leveling Compound	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F1		
25-Leveler <small>042114709-0025</small>	Basement - White Floor Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F2		
25-Mastic <small>042114709-0025A</small>	Basement - White Floor Leveling Compound	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F2		
26-Leveler <small>042114709-0026</small>	Basement - White Floor Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F3		
26-Mastic <small>042114709-0026A</small>	Basement - White Floor Leveling Compound	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F3		
27 <small>042114709-0027</small>	Basement - Beige 12x12 VCT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: G1		
28 <small>042114709-0028</small>	Basement - Beige 12x12 VCT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: G2		
29 <small>042114709-0029</small>	Basement - Beige 12x12 VCT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: G3		
30 <small>042114709-0030</small>	Basement - Hard Joint Pipe Elbow	White/Beige Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
			HA: H1		

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
31 <small>042114709-0031</small>	Basement - Hard Joint Pipe Elbow	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
			HA: H2		
32 <small>042114709-0032</small>	Basement - Hard Joint Pipe Elbow	Gray Fibrous Homogeneous	40% Min. Wool	60% Non-fibrous (Other)	None Detected
			HA: H3		

Analyst(s)

Andrew Borsos (37)

Quynh Vu (13)

Shannon McCormick (6)

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

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Project ID:

**Attn:** Staige Miller Phone: (925) 746-6000  
AEI Consultants Fax:  
2500 Camino Diablo Collected:  
Suite 100 Received: 6/17/2021  
Walnut Creek, CA 94597 Analyzed: 6/27/2021  
**Proj:** Northgate Terrace / 433560 / 4301 Whittle Springs Road, Knoxville, TN

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 1 **Lab Sample ID:** 042114709-0001  
**Sample Description:** 14th Floor Hallway/Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/18/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 2 **Lab Sample ID:** 042114709-0002  
**Sample Description:** 14th Floor Hallway/Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/18/2021	White	0.0%	97.0%	3% Chrysotile	

**Client Sample ID:** 3-Drywall **Lab Sample ID:** 042114709-0003  
**Sample Description:** Unit 1311 Closet/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/18/2021	Brown/White	20.0%	80.0%	None Detected	

**Client Sample ID:** 3-Tape **Lab Sample ID:** 042114709-0003A  
**Sample Description:** Unit 1311 Closet/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/18/2021	White	90.0%	10.0%	None Detected	

**Client Sample ID:** 3-Joint Compound **Lab Sample ID:** 042114709-0003B  
**Sample Description:** Unit 1311 Closet/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/18/2021	White	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 3-Texture **Lab Sample ID:** 042114709-0003C  
**Sample Description:** Unit 1311 Closet/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/18/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 4 **Lab Sample ID:** 042114709-0004  
**Sample Description:** 13th Floor Hall/Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	98.0%	2% Chrysotile	



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Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 5-Drywall **Lab Sample ID:** 042114709-0005

**Sample Description:** Unit 1109/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** 5-Tape **Lab Sample ID:** 042114709-0005A

**Sample Description:** Unit 1109/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	80.0%	20.0%	None Detected	

**Client Sample ID:** 5-Joint Compound **Lab Sample ID:** 042114709-0005B

**Sample Description:** Unit 1109/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Beige	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 5-Texture **Lab Sample ID:** 042114709-0005C

**Sample Description:** Unit 1109/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 6-Drywall **Lab Sample ID:** 042114709-0006

**Sample Description:** Unit 1106 Kitchen/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** 6-Joint Compound **Lab Sample ID:** 042114709-0006A

**Sample Description:** Unit 1106 Kitchen/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Beige	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 6-Tape **Lab Sample ID:** 042114709-0006B

**Sample Description:** Unit 1106 Kitchen/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	White	85.0%	15.0%	None Detected	

**Client Sample ID:** 6-Texture **Lab Sample ID:** 042114709-0006C

**Sample Description:** Unit 1106 Kitchen/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	



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## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 7 **Lab Sample ID:** 042114709-0007

**Sample Description:** 8th Floor Hall/White Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 8-Drywall **Lab Sample ID:** 042114709-0008

**Sample Description:** Unit 910 Kitchen/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	15.0%	85.0%	None Detected	

**Client Sample ID:** 8-Joint Compound **Lab Sample ID:** 042114709-0008A

**Sample Description:** Unit 910 Kitchen/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Beige	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 8-Tape **Lab Sample ID:** 042114709-0008B

**Sample Description:** Unit 910 Kitchen/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	80.0%	20.0%	None Detected	

**Client Sample ID:** 8-Texture **Lab Sample ID:** 042114709-0008C

**Sample Description:** Unit 910 Kitchen/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 9 **Lab Sample ID:** 042114709-0009

**Sample Description:** 9th Floor Hall/Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 10-Drywall **Lab Sample ID:** 042114709-0010

**Sample Description:** Unit 805 Kitchen/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	20.0%	80.0%	None Detected	

**Client Sample ID:** 10-Joint Compound **Lab Sample ID:** 042114709-0010A

**Sample Description:** Unit 805 Kitchen/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	



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EMSL Order ID: 042114709  
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## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 10-Tape **Lab Sample ID:** 042114709-0010B  
**Sample Description:** Unit 805 Kitchen/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	80.0%	20.0%	None Detected	

**Client Sample ID:** 10-Texture **Lab Sample ID:** 042114709-0010C  
**Sample Description:** Unit 805 Kitchen/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 11-Drywall **Lab Sample ID:** 042114709-0011  
**Sample Description:** Unit 812 LR/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	20.0%	80.0%	None Detected	

**Client Sample ID:** 11-Joint Compound **Lab Sample ID:** 042114709-0011A  
**Sample Description:** Unit 812 LR/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Beige	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 11-Tape **Lab Sample ID:** 042114709-0011B  
**Sample Description:** Unit 812 LR/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	80.0%	20.0%	None Detected	

**Client Sample ID:** 11-Texture **Lab Sample ID:** 042114709-0011C  
**Sample Description:** Unit 812 LR/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 12 **Lab Sample ID:** 042114709-0012  
**Sample Description:** 7th Floor Hall/2x4 Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Gray/White	60.0%	30.0%	2% Amosite 8% Chrysotile	

**Client Sample ID:** 13 **Lab Sample ID:** 042114709-0013  
**Sample Description:** 7th Floor Hall/2x4 Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Gray	60.0%	30.0%	2% Amosite 8% Chrysotile	



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## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 14 **Lab Sample ID:** 042114709-0014

**Sample Description:** 7th Floor Hall/2x4 Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Gray	50.0%	40.0%	2% Amosite 8% Chrysotile	

**Client Sample ID:** 15-Drywall **Lab Sample ID:** 042114709-0015

**Sample Description:** 2nd Floor Goodwill/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Brown/White	15.0%	85.0%	None Detected	

**Client Sample ID:** 15-Joint Compound **Lab Sample ID:** 042114709-0015A

**Sample Description:** 2nd Floor Goodwill/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 15-Tape **Lab Sample ID:** 042114709-0015B

**Sample Description:** 2nd Floor Goodwill/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	White	85.0%	15.0%	None Detected	

**Client Sample ID:** 15-Texture **Lab Sample ID:** 042114709-0015C

**Sample Description:** 2nd Floor Goodwill/Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 16 **Lab Sample ID:** 042114709-0016

**Sample Description:** 2nd Floor Goodwill/Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 17 **Lab Sample ID:** 042114709-0017

**Sample Description:** 1st Floor Hall/2x2 Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	70.0%	30.0%	None Detected	

**Client Sample ID:** 18 **Lab Sample ID:** 042114709-0018

**Sample Description:** 1st Floor Hall/2x2 Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Brown/White	70.0%	30.0%	None Detected	



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## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 19 **Lab Sample ID:** 042114709-0019

**Sample Description:** 1st Floor Hall/2x2 Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Gray/White	80.0%	20.0%	None Detected	

**Client Sample ID:** 20 **Lab Sample ID:** 042114709-0020

**Sample Description:** Main Hall 1st Floor/2x2 Black Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Gray/Black	90.0%	10.0%	None Detected	

**Client Sample ID:** 21 **Lab Sample ID:** 042114709-0021

**Sample Description:** Main Hall 1st Floor/2x2 Black Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Gray/Black	90.0%	10.0%	None Detected	

**Client Sample ID:** 22 **Lab Sample ID:** 042114709-0022

**Sample Description:** Main Hall 1st Floor/2x2 Black Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Gray/Black	80.0%	20.0%	None Detected	

**Client Sample ID:** 23 **Lab Sample ID:** 042114709-0023

**Sample Description:** 2nd Floor/White Ceiling Texture

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	98.0%	2% Chrysotile	

**Client Sample ID:** 24-Leveler **Lab Sample ID:** 042114709-0024

**Sample Description:** Basement/White Floor Leveling Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	
TEM Grav. Reduction	6/27/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 24-Mastic **Lab Sample ID:** 042114709-0024A

**Sample Description:** Basement/White Floor Leveling Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Yellow	0.0%	100.0%	None Detected	
TEM Grav. Reduction	6/27/2021				Insufficient Material	

**Client Sample ID:** 25-Leveler **Lab Sample ID:** 042114709-0025

**Sample Description:** Basement/White Floor Leveling Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order ID: 042114709  
Customer ID: AEIC62  
Customer PO: 80.020000-0290B  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** 25-Mastic **Lab Sample ID:** 042114709-0025A

**Sample Description:** Basement/White Floor Leveling Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Yellow	0.0%	100.0%	None Detected	

**Client Sample ID:** 26-Leveler **Lab Sample ID:** 042114709-0026

**Sample Description:** Basement/White Floor Leveling Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	White	0.0%	100.0%	None Detected	

**Client Sample ID:** 26-Mastic **Lab Sample ID:** 042114709-0026A

**Sample Description:** Basement/White Floor Leveling Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Yellow	0.0%	100.0%	None Detected	

**Client Sample ID:** 27 **Lab Sample ID:** 042114709-0027

**Sample Description:** Basement/Beige 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Beige	0.0%	100.0%	None Detected	
TEM Grav. Reduction	6/27/2021	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** 28 **Lab Sample ID:** 042114709-0028

**Sample Description:** Basement/Beige 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** 29 **Lab Sample ID:** 042114709-0029

**Sample Description:** Basement/Beige 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** 30 **Lab Sample ID:** 042114709-0030

**Sample Description:** Basement/Hard Joint Pipe Elbow

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	White/Beige	70.0%	30.0%	None Detected	

**Client Sample ID:** 31 **Lab Sample ID:** 042114709-0031

**Sample Description:** Basement/Hard Joint Pipe Elbow

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/19/2021	Gray	70.0%	30.0%	None Detected	



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<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order ID: 042114709  
Customer ID: AEIC62  
Customer PO: 80.020000-0290B  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 32

Lab Sample ID: 042114709-0032

Sample Description: Basement/Hard Joint Pipe Elbow

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/20/2021	Gray	40.0%	60.0%	None Detected	

### Analyst(s):

- Andrew Borsos PLM (37)
- Quynh Vu PLM (13)
- Seri Smith TEM Grav. Reduction (2)
- Shannon McCormick PLM (6)

### Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 06/20/2021 11:12:00



042114709



Chain of Custody Form

- |   |   |  |   |   |
|---|---|--|---|---|
| <input type="checkbox"/> AEI CONSULTANTS<br>2500 CAMINO DIABLO<br>SUITE 200<br>WALNUT CREEK, CA 94597<br>TEL. 925.283.6000<br>FAX. 925.283.6121 | <input type="checkbox"/> AEI (SAN JOSE)<br>3880 S. BASCOM AVENUE<br>SUITE 112<br>SAN JOSE, CA 95124<br>TEL. 408.559.7600<br>FAX. 408.559.7601 | <input type="checkbox"/> AEI (LOS ANGELES)<br>2447 PACIFIC COAST HWY<br>SUITE 101<br>HERMOSA BEACH, CA 90254<br>TEL. 310.798.4255<br>FAX. 310.798.2841 | <input type="checkbox"/> AEI (CHICAGO)<br>1140 LAKE STREET<br>SUITE 501<br>OAK PARK, IL 60301<br>TEL. 708.386.6140<br>FAX. 708.386.6135 | <input type="checkbox"/> AEI (KANSAS CITY)<br>10502 N. AMBASSADOR DR.<br>SUITE 260<br>KANSAS CITY, MO 64153<br>TEL: 816.801.7020<br>FAX: 816.801.7028 |
| <input type="checkbox"/> AEI (MIAMI)<br>200 SOUTH PARK ROAD<br>SUITE 400<br>HOLLYWOOD, FL 33021<br>TEL. 954.966.1746<br>Fax.954.966.1747        | <input type="checkbox"/> AEI (ATLANTA)<br>TWO RAVINIA DRIVE<br>SUITE 500<br>ATLANTA, GA 30346<br>TEL. 678.855.7142<br>FAX. 404.963.0834       | <input type="checkbox"/> AEI (DENVER)<br>165 SOUTH UNION BLVD.<br>SUITE 270<br>LAKEWOOD, CO 80228<br>TEL. 720.238.4582<br>FAX. 303.524.3401            | <input type="checkbox"/> AEI (DALLAS)<br>2501 OAKLAWN AVENUE<br>SUITE 420<br>DALLAS, TX 75219<br>TEL. 214.393.5810<br>FAX 214.393.5815  | <input type="checkbox"/> AEI (NEW YORK)<br>30 MONTGOMERY STREET<br>SUITE 1450<br>JERSEY CITY, NJ 07302<br>TEL. 201.332.1844<br>FAX. 201.332-1880      |
|   |   |  |   | <input type="checkbox"/> AEI (ARIZONA)<br>1255 W. BASELINE RD<br>SUITE 212<br>MESA, AZ 85202<br>TEL. 480.820.2545<br>Fax. 480.820.2598                |

Project Manager:

Project Name:

Northgate Terrace

Project #: 433560

Project Location:

4301 Whittle Springs Road Knoxville, TN

Project State (US): TN

TURNAROUND TIME

- |                                  |                                  |                                   |                                   |  |                                   |                                 |                                 |                                    |
|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|--|-----------------------------------|---------------------------------|---------------------------------|------------------------------------|
| <input type="checkbox"/> 3 Hours | <input type="checkbox"/> 6 Hours | <input type="checkbox"/> 12 Hours | <input type="checkbox"/> 24 Hours | <input checked="" type="checkbox"/> 48 Hours | <input type="checkbox"/> 72 Hours | <input type="checkbox"/> 4 Days | <input type="checkbox"/> 5 Days | <input type="checkbox"/> 6-10 Days |
|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|--|-----------------------------------|---------------------------------|---------------------------------|------------------------------------|

SAMPLE MATRIX

- |                              |  |                               |                               |                                    |   |                                     |                                |                                |
|------------------------------|--|-------------------------------|-------------------------------|------------------------------------|---|-------------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> Air | <input checked="" type="checkbox"/> Bulk | <input type="checkbox"/> Soil | <input type="checkbox"/> Wipe | <input type="checkbox"/> Micro-Vac | <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Chips | <input type="checkbox"/> Other |
|------------------------------|--|-------------------------------|-------------------------------|------------------------------------|---|-------------------------------------|--------------------------------|--------------------------------|

ASBESTOS ANALYSIS

PCM - Air

- NIOSH 7400 (A) Issue 2: August 1994
- OSHA w/TWA

TEM AIR

- AHERA 40 CFR, Part 763 Subpart E
- NIOSH 7402 Issue 2
- EPA Level II

PLM - Bulk

- EPA 600/R-93/116
- NY Stratified Point Count
- California Air Resource Board (CARB) 435
- NIOSH 9002
- PLM NOB (Gravimetric) NYS 198.1
- EPA Point Count (400 Points)
- EPA Point Count (1,000 Points)
- Standard Addition Point Count

SOILS

- EPA Protocol Qualitative
- EPA Protocol Quantitative
- EMSL MSD 9000 Method fibers/gram
- Superfund EPA 540-R097-028 (dust generation)

TEM BULK

- Drop Mount (Qualitative)
- Chatfield SOP-1988-02
- TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

- ASTM D 5755-95 (Quantitative)

TEM WIPE

- ASTM D-6480-99
- Qualitative

TEM WATER

- EPA 100.1
- EPA 100.2
- NYS 198.2
- Other: \_\_\_\_\_

LEAD ANALYSIS

Flame Atomic Absorption

- Wipe, SW846-7420  ASTM  non ASTM
- Soil, SW846-7420
- Air, NIOSH 7082
- Chips, SW846-7420 or AOC 5.009 (974.02)
- Wastewater, SW 846-7420
- TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

- Air, NIOSH 7105
- Wastewater, SW846-7421
- Soil, SW846-7421
- Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

- Wipe, SW846-6010  ASTM  non ASTM
- Soil, SW846-6010
- Air, NIOSH 7300

MATERIALS ANALYSIS

- Full Particle Identification
- Optical Particle Identification
- Dust Mites and Insect Fragments
- Particle Size & Distribution
- Product Comparison
- Paint Characterization
- Failure Analysis
- Corrosion Analysis
- Glove Box Containment Study
- Petrographic Examination of Concrete
- Portland Cement in Workplace Atmospheres (OSHA ID-143)
- Man Made Vitrous Fibers - MMVF's
- Synthetic Fiber Identification
- Other: \_\_\_\_\_

MICROBIAL ANALYSIS

Air Samples

- Mold & Fungi by Air O Cell
- Mold & Fungi by Agar Plate count & id
- Bacterial Count and Gram Stain
- Bacterial Count and Identification

Water Samples

- Total Coliforms, Fecal Coliforms
- Escherichia Coli, Fecal Streptococcus
- Legionella
- Salmonella
- Giardia and Cryptosporidium

Wipe and Bulk Samples

- Mold & Fungi - Direct Examination
- Mold & Fungi - (Culture follow up to direct examination if necessary)
- Mold & Fungi - Culture (Count & ID)
- Mold & Fungi - Culture (Count only)
- Bacterial Count & Gram Stain
- Bacterial Count & Identification (3 most prominent types)
- Other: \_\_\_\_\_

IAQ ANALYSIS

- Nuisance Dust (NIOSH 0506 & 0600)
- Airborne Dust (PM10, TSP)
- Silica Analysis by XRD  NIOSH 7500
- HVAC Efficiency
- Carbon Black
- Airborne Oil Mist
- Other: \_\_\_\_\_

Additional Information/Comments/Instructions:

Email Results to: Staige Miller: staige.miller@aeiconsultants.com

TOTAL SAMPLE # 321

Relinquished:	<i>[Signature]</i>	Date:	6/16/21	Time:	Am
Received:		Date:		Time:	
Relinquished:		Date:		Time:	
Received:	<i>[Signature]</i>	Date:	6-17-21	Time:	940A

Please Submit Samples to: EMSL Analytical, Inc. - 200 Route 130 North, Cinnaminson, NJ 08077 800-220-3675 Page 1 of 3

042114709



Chain of Custody Form

- AEI CONSULTANTS  
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FAX. 925.283.6121
- AEI (SAN JOSE)  
3880 S. BASCOM AVENUE  
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SAN JOSE, CA 95124  
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FAX: 816.801.7028
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SUITE 400  
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Fax.954.966.1747
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FAX. 404.963.0834
- AEI (DENVER)  
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LAKEWOOD, CO 80228  
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DALLAS, TX 75219  
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FAX 214.393.5815
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JERSEY CITY, NJ 07302  
TEL. 201.332.1844  
FAX. 201.332-1880
- AEI (ARIZONA)  
1255 W. BASELINE RD  
SUITE 212  
MESA, AZ 85202  
TEL. 480.820.2545  
Fax. 480.820.2598

HA

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
1	14 <sup>th</sup> Floor Hallway Ceiling texture	A1	
2	14 <sup>th</sup> Floor Hallway Ceiling texture	A2	
3	Unit 1311 Closet Drywall/tape/jc	B1	
4	13 <sup>th</sup> Floor Hall Ceiling texture	A3	
5	Unit 1109 Drywall/tape/jc	B2	
6	Unit 1006 Kitchen Drywall/jc/tape	B3	
7	8 <sup>th</sup> Floor Hall White ceiling texture	A4	
8	Unit 910 Drywall/jc/tape - Kitchen	B4	
9	9 <sup>th</sup> Floor Hall Ceiling texture	A5	
10	Unit 805 Kitchen Drywall/jc/tape	B5	
11	Unit 812 LR Drywall/jc/tape	B6	
12	7 <sup>th</sup> Floor 2x4 ceiling tile - Hall	C1	
13	"	C2	
14	"	C3	
15	2 <sup>nd</sup> Floor Goodwill Drywall/jc/tape	B7	
16	2 <sup>nd</sup> Floor Goodwill Ceiling texture	A6	
17	2x2 Ceiling tile - 1 <sup>st</sup> Floor Hall	D1	
18	"	D2	
19	"	D3	
20	2x2 Black Ceiling tile - Main Hall first floor	E1	
21	"	E2	
22	"	E3	
23	2 <sup>nd</sup> Floor White Ceiling texture	A7	

RECEIVED  
 EMSL  
 CINNAMINSON, N.J.  
 2021 JUN 17 AM 10:26

Relinquished: [Signature] Date: 6/16/21 Time: AM

Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Please Submit Samples to: EMSL Analytical, Inc. - 200 Route 130 North, Cinnaminson, NJ 08077 800-220-3675 Page 2 of 3

\* All ceiling texture is white in color unless otherwise stated.

042114709



Chain of Custody Form

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FAX. 408.559.7601
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1140 LAKE STREET  
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FAX. 708.386.6135
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FAX: 816.801.7028
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FAX. 404.963.0834
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165 SOUTH UNION BLVD.  
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LAKEWOOD, CO 80228  
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2501 OAKLAWN AVENUE  
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TEL. 214.393.5810  
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- AEI (ARIZONA)  
1255 W. BASELINE RD  
SUITE 212  
MESA, AZ 85202  
TEL. 480.820.2545  
Fax. 480.820.2598

HA

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
24	Basement White floor leveling compound F <sub>1</sub>		
25	"	F <sub>2</sub>	
26	"	F <sub>3</sub>	
27	Basement Beige 12x12 VCT G <sub>1</sub>		
28	"	G <sub>2</sub>	
29	"	G <sub>3</sub>	
30	Basement Hard joint pipe elbow H <sub>1</sub>		
31	"	H <sub>2</sub>	
32	"	H <sub>3</sub>	

RECEIVED  
 EMSL  
 CINNAMINSON, N.J.  
 2021 JUN 17 AM 10:26

Relinquished:  Date: 6/16/21 Time: AM  
 Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

042114709

**Christy, Sherry**

---

**From:** Cinnaminson-Asbestos  
**Sent:** Monday, June 21, 2021 11:00 AM  
**To:** Corporate - Asbestos Login  
**Subject:** FW: EMSL report, COC for order(s) 042114709 (042114709 - Northgate Terrace / 433560 / 4301 Whittle Springs Road, Knoxville, TN)  
**Attachments:** TEM NOB 042114709\_001.pdf  
**Importance:** High

---

**From:** Michael Capozzi <mcapozzi@aeiconsultants.com>  
**Sent:** Monday, June 21, 2021 2:59:46 PM (UTC+00:00) Monrovia, Reykjavik  
**To:** Vu, Quynh <qvu@EMSL.com>; EMSL Lab - Cinnaminson Asbestos <CinnAsblab@EMSL.com>; Brandt, Christopher <cbrandt@EMSL.com>  
**Cc:** Staige Miller <staige.miller@aeiconsultants.com>; Nardozzi, Chris <cnardozzi@EMSL.com>  
**Subject:** RE: EMSL report, COC for order(s) 042114709 (042114709 - Northgate Terrace / 433560 / 4301 Whittle Springs Road, Knoxville, TN)

**[EXTERNAL E-MAIL]**

Good afternoon - The highlighted samples on the attached report will need to be analyzed using TEM EPA NOB 600/R-93/116b Section 2.5.5.1. It should be 3 samples. 5 Day TAT.

Please let me know if you have any questions.

Thank you

Michael F. Capozzi  
Senior Project Manager – HUD/IH Environmental Services  
**AEI Consultants**  
112 Water Street, 5th Floor  
Boston, MA 02109

e. [mcapozzi@aeiconsultants.com](mailto:mcapozzi@aeiconsultants.com)  
c. [904.553.0549](tel:904.553.0549)



---

**From:** EMSL (Cinnaminson) <cinnasblab@EMSL.com>  
**Sent:** Sunday, June 20, 2021 11:19 AM  
**To:** Staige Miller <staige.miller@aeiconsultants.com>  
**Cc:** Michael Capozzi <mcapozzi@aeiconsultants.com>  
**Subject:** EMSL report, COC for order(s) 042114709 (042114709 - Northgate Terrace / 433560 / 4301 Whittle Springs Road, Knoxville, TN)



## EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

http://www.EMSL.com / cinnaslab@EMSL.com

EMSL Order: 042114709

Customer ID: AEIC62

Customer PO: 80.020000-0290B

Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
20 042114709-0020	Main Hall 1st Floor - 2x2 Black Ceiling Tile	Gray/Black Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
			HA: E1		
21 042114709-0021	Main Hall 1st Floor - 2x2 Black Ceiling Tile	Gray/Black Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
			HA: E2		
22 042114709-0022	Main Hall 1st Floor - 2x2 Black Ceiling Tile	Gray/Black Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
			HA: E3		
23 042114709-0023	2nd Floor - White Ceiling Texture	White Non-Fibrous Homogeneous		5% Vermiculite 93% Non-fibrous (Other)	2% Chrysotile
			HA: A7		
24-Leveler 042114709-0024	Basement - White Floor Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F1		
24-Mastic 042114709-0024A	Basement - White Floor Leveling Compound	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F1		
25-Leveler 042114709-0025	Basement - White Floor Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F2		
25-Mastic 042114709-0025A	Basement - White Floor Leveling Compound	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F2		
26-Leveler 042114709-0026	Basement - White Floor Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F3		
26-Mastic 042114709-0026A	Basement - White Floor Leveling Compound	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: F3		
27 042114709-0027	Basement - Beige 12x12 VCT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: G1		
28 042114709-0028	Basement - Beige 12x12 VCT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: G2		
29 042114709-0029	Basement - Beige 12x12 VCT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: G3		
30 042114709-0030	Basement - Hard Joint Pipe Elbow	White/Beige Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (Other)	None Detected
			HA: H1		

Initial report from: 06/20/2021 11:11:50

**APPENDIX B**

**EMPLOYEE & LABORATORY CREDENTIALS**

THE STATE OF TENNESSEE

Department of Environment and Conservation  
Division of Solid Waste Management  
Toxic Substances Program

120758-9L301



**Joseph K Reynolds**

DOB: 17-Dec-1991    Sex: M    HGT: 6'4"    WGT: 195

Discipline	Accreditation	Expiration
Inspector	A-I-147193-97365	Nov-30-2021
Management Planner	A-MP-147193-100725	Oct-31-2021
Project Monitor	A-PM-147193-88852	Mar-31-2021

Re-Accreditation

**Asbestos Accreditation**

is hereby Accredited pursuant to Rule 1200-01-20 Asbestos Accreditation Requirements to perform Asbestos Activities associated with the Discipline(s) listed on the front of this card.

A false statement pertaining to accreditation(s) is subject to the penalties of perjury.

Note: In order for this Tennessee issued accreditation to remain valid through the expiration date, the Individual must maintain current applicable accredited asbestos refresher training course(s)

THIS CARD IS NOT TO BE USED FOR ANY OTHER IDENTIFICATION PURPOSES. IF FOUND, RETURN TO:

Department of Environment and Conservation  
Division of Solid Waste Management  
Toxic Substances Program  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 14th Floor  
Nashville TN 37243

CN-1324

(Rev 6/13)

RDA-3020

**THE STATE OF TENNESSEE**

Department of Environment and Conservation  
Division of Solid Waste Management  
Toxic Substances Program

**Kathryn O Hubicki**

DOB: 16-Jun-1981    Sex: F    HGT: 5' 5"    WGT: 175

Discipline	Accreditation	Expiration
Inspector	A-I-73297-92384	Aug-31-2021

77106-50503



Re-Accreditation

**Asbestos Accreditation**





Is hereby Accredited pursuant to Rule 1200-01-20 Asbestos Accreditation Requirements to perform Asbestos Activities associated with the Discipline(s) listed on the front of this card.

A false statement pertaining to accreditation(s) is subject to the penalties of perjury.

Date Issued: 11/20/2020

**Note: In order for this Tennessee issued accreditation to remain valid through the expiration date, the individual must maintain current applicable accredited asbestos refresher training course(s)**

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## THE STATE OF TENNESSEE

Department of Environment and Conservation Division of Solid Waste Management  
Toxic Substances Program

William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 14th Floor Nashville TN 37243

By virtue of the authority vested by the Division of Solid Waste Management, the  
Company named below is hereby accredited to offer and/or conduct Asbestos activities  
pursuant to Rule 1200-01-20:

### One Source Environmental, LLC.

3717 Latrobe Drive, Suite 760 Charlotte NC, 28211

to conduct ASBESTOS ACTIVITIES in schools or public and commercial buildings in Tennessee.  
This firm is responsible for compliance with the applicable requirements of Rule 1200-01-20.

Discipline	Type	Accreditation Number	Effective Date	Expiration Date
Accreditation	Re-Accreditation	A-F-140-103182	March 23, 2021	April 30, 2022



Given under the Seal of the State of Tennessee in Nashville.

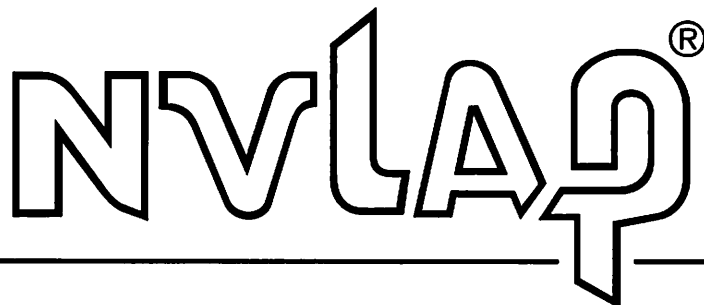
This 23rd Day of March 2021

Division of Solid Waste Management  
Toxic Substance Program

CN-1324 (Rev 6/13)

RDA-3020

United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:2017**

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**NVLAP LAB CODE: 101048-0**

**EMSL Analytical, Inc.**  
Cinnaminson, NJ

*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 17025:2017.  
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).*

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2020-07-01 through 2021-06-30

*Effective Dates*



A handwritten signature in black ink, appearing to read "Dana S. Haman". The signature is written in a cursive style with a large, looping "D" and "H".

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*For the National Voluntary Laboratory Accreditation Program*

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**EMSL Analytical, Inc.**  
200 Route 130 North  
Cinnaminson, NJ 08077  
Samantha Rundstrom  
Phone: 856-303-2577  
Email: [srundstrom@emsl.com](mailto:srundstrom@emsl.com)  
<http://www.emsl.com>

**ASBESTOS FIBER ANALYSIS**

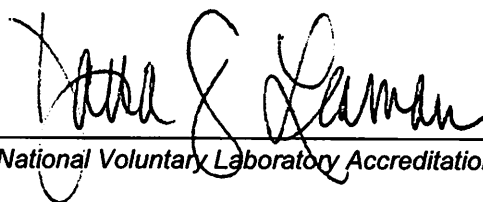
**NVLAP LAB CODE 101048-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program