Atlantic Shores
Environmental Services, Ltd.

February 19, 2016

Michael Sandman, Attorney
7101 Creedmoor Road, Suite 142
Raleigh, North Carolina 27613

Reference: Report of Limited Asbestos Survey
The News and Observer Properties
215 South McDowell Street,
111 and 123 West Hargett Street,
Raleigh, North Carolina
ASE Project No. 1259A

Dear Mr. Sandman:

Atlantic Shores Environmental Services, Ltd. (ASE) has completed an asbestos survey at the above referenced property. The purpose of the testing was to determine the presence and general location of asbestos containing materials (ACM) on the interior and the exterior of the structures on the site. This report includes a summary of the project background information, our survey approach and sampling results, and conclusions and recommendations.

ASE appreciates the opportunity to provide our environmental services for this project. If you have questions or need additional information, please contact us at (910) 371-5980.

Respectfully,
ATLANTIC SHORES ENVIRONMENTAL SERVICES, LTD.

Cheryl J. Moody, REM, CMRS, CIEC
Principal Scientist
NC Asbestos Inspector No. 12067

Elliot Swain
Staff Scientist

Attachments: Report

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Atlantic Shores
ASE
Environmental Services, Ltd.

REPORT OF LIMITED ASBESTOS SURVEY
NEWS AND OBSERVER PROPERTIES
215 SOUTH MCDOWELL STREET,
111 AND 123 WEST HARGETT STREET,
RALEIGH, NORTH CAROLINA

ASE PROJECT NO. 1259A

FOR

MICHAEL SANDMAN, ATTORNEY

FEBRUARY 19, 2016

PROJECT

Report of Limited Asbestos Survey
News and Observer Properties
215 South McDowell Street,
111 and 123 West Hargett Street,
Raleigh, North Carolina

CLIENT

Michael Sandman, Attorney
7101 Creedmoor Road, Suite 142
Raleigh, North Carolina 27613

SUBMITTED BY

Atlantic Shores Environmental Services, Ltd.
154 Backhoe Road
Leland, North Carolina 28451

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DATE
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News and Observer Properties
215 South McDowell Street,
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TABLE OF CONTENTS

1.0 PROJECT INFORMATION 1
1.1 Building 1 and Mail Room, Vintage 1955 1
1.2 Building 2, Vintage 1962 2
1.3 Building 3, Vintage 1981 2
1.4 Building 4, Vintage 1984 2
1.5 Building 5, Vintage 1995 2
1.6 Building 6, Vintage Estimated Between 1914-1949 3
2.0 SCOPE OF SERVICES 3
3.0 RESULTS 4
3.1 – Building Specific Results 5
3.1.1 Building 1 and Mail Room 5
3.1.2 Building 2 5
3.1.3 Building 3 6
3.1.4 Building 4 6
3.1.5 Building 5 6
3.1.6 Building 6 6
4.0 CONCLUSIONS AND RECOMENDATIONS 7

Appendices:
Tables:

Table 1 – Building 1 Asbestos Containing Materials
Table 2 – Building 2 Asbestos Containing Materials
Table 3 – Building 3 Asbestos Containing Materials
Table 4 – Building 6 Asbestos Containing Materials
Table 5 – Estimated Quantities

Figures:

Figure 1 – Facility Additions
Figure 2 – Building 1 Basement ACM Locations (Approximate)
Figure 3 – Building 1 First Floor ACM Locations (Approximate)
Figure 4 – Building 1 Second Floor ACM Locations (Approximate)
Figure 5 – Building 1 Third Floor ACM Locations (Approximate)
Figure 6 – Building 1 Roof/Penthouse ACM Locations (Approximate)
Figure 7 – Building 2 Second Floor ACM Locations (Approximate)
Figure 8 – Building 2 Third Floor ACM Locations (Approximate)
Figure 9 – Building 2 Roof ACM Locations (Approximate)
Figure 10 – Building 3 First Floor ACM Locations (Approximate)
Figure 11 – Building 3 Roof ACM Locations (Approximate)
Figure 12 – Building 6 Second Floor ACM Locations (Approximate)
Figure 13 – Building 6 Third Floor ACM Locations (Approximate)
Figure 14 – Building 6 Roof ACM Locations (Approximate)
Photographs
Bulk Asbestos Analysis Sheets and Chain of Custody

1.0 PROJECT INFORMATION

The above referenced property is located in downtown Raleigh at the intersections of South McDowell Street, West Hargett Street, South Salisbury Street, and West Martin Street. The site includes approximately 3.3 acres of land occupied by approximately 248,103 square-feet of mixed commercial and office building space. The News and Observer Company currently occupies a three-story brick building with a basement at this address. This building is currently used as office space and printing/publishing operations for The News and Observer Newspaper and encompasses several contiguous structures. A parking deck is also located on this parcel. Suspect material was not observed in the parking deck. According to the Key Manager for the property, Edwin F. (Pete) Caison, the building has had five additions throughout the years (from 1955 to 1984). The facility appears to have been built around a building of unknown vintage. However ASE believes that this building was constructed between 1914 and 1949. Figure 1 illustrates each building and lists its construction date.

For convenience, each building was assigned a building identification number (buildings 1-6) prior to the survey. A more detailed description of each building is presented below.

1.1 Building 1 and Mail Room, Vintage 1955

According to Edwin F. (Pete) Caison, this building was originally built in 1955. According to ASE's historical research, an addition was constructed on the east end of the building some time between 1965 and 1971. The building is a three-story brick building with a full basement located at the northwest portion of the property. The building utilizes a built-up style of roofing, with a medium stone aggregate layer and flashing around ledges, buildings, and parapet walls. The roof does not appear to be original. The building is primarily used for office and storage space. The basement is currently used primarily as storage space for out of date office supplies and historical newspapers. Flooring throughout the basement is made up of concrete. Four rooms in the basement appear to have been converted into offices, with 12x12 floor tiles. According to Mr. Caison, historically, the first floor flooring utilized hard wood floors. Throughout this area, various vinyl floor tile types have been installed on top of the original wood floor, creating layers of tile from various time periods. The amount of tile layers observed varies from one (1) to four (4) layers. This technique of stacking layers of tile on top of existing layers is used throughout the first, second and third floors, which are also used for office space. Additionally, roof drain piping, and hot and cold water piping is distributed throughout the building. Piping for these systems were observed to have various types of Thermal Systems Insulation (TSI). It appears that a significant renovation and or abatement have removed the majority of the suspect TSI. However, remnant historic insulation and piping remain in various areas. It should be noted that this piping is located above the drop ceiling. Quantifying the actual linear feet of this piping has proven to be a challenge at this time. The abetment contractor should independently verify the estimated quantities in the attached Table 5.

A one-story building, currently being used as a mailroom, is located directly east of the east exterior stairwell for Building 1. The date of construction for this building is unknown. However, ASE believes the vintage to be similar to Building 1. Therefore the samples, and their associated results, for this building have been included with Building 1.

1.2 Building 2, Vintage 1962

According to Mr. Caison, this building was originally built as an addition to Building 1 in 1962, expanding the printing operations for the News & Observer. The building is located directly south of Building 1 and constructed using similar techniques. The roofing construction is similar to Building 1, utilizing a built-up construction. However, upon sampling, ASE discovered an additional layer of insulation on this roof. The basement, first floor, and a portion of the second floor are open to each other for printing operations along the eastern perimeter of the building. Lunchroom and office spaces are located on the second and third floors, respectfully. Vinyl floor tile layers were also observed throughout this building along with various forms of TSI.

1.3 Building 3, Vintage 1981

According to Mr. Caison, this building was originally built as an addition to Building 2 in 1981, expanding the printing operations for the News & Observer. The building is located south of Building 2 in the southeastern portion of the property and utilizes the same built-up style of roofing as Buildings 1 and 2. Additionally, two penthouses are located on the west and east sides of the roof. The pent house on the west side of the roof is primarily used for storage and houses two large hot water heaters, while the penthouse to the east is used for storage and contains a stairwell connecting Building 4 to Building 3. The basement, first, and second floors are primarily used for printing press operations. The third floor is used for office space.

1.4 Building 4, Vintage 1984

According to Mr. Caison, this building was originally built as an addition to Building 3 in 1984. This building comprises the post press and distribution processes for the News & Observer. This building utilizes a membrane style of roofing. This roofing style appears to have a layer of insulation with a rubber-like member on the surface. There is also a penthouse building, which houses air handlers located at the north end of the roof. The basement and first floor consists of a loading dock and truck delivery garage. The second and third floors are used for the post press department, with a mezzanine on the third floor connecting to offices spaces located in Building 5. Concrete flooring and walls make up the majority of this building. However the mezzanine, break room, offices and bathrooms contain 12x12 floor tile and 2x2 ceiling tile.

1.5 Building 5, Vintage 1995

According to Mr. Caison, this building was originally built in 1995. This building is located in the southwest corner of the property. It is primarily used for storage and office space. This building utilizes the same membrane style of roofing as Building 4. The basement, first and second floors are utilized for storage space, while the third floor is used for office space. Concrete flooring and walls makeup the basement, first, and second floors. However fireproofing material was observed on the roof decking on each floor of the building. Similar material was observed on the roof decking of Buildings 3 and 4. According to communications with Mr. Larry Campbell of the News and Observer, the fireproofing was installed during the construction of this building in 1995. Concrete flooring was observed beneath carpet throughout the office space on the third floor.

1.6 Building 6, Vintage Estimated Between 1914-1949

The original construction date of this building was unknown by Mr. Caison at the time of this survey. However, from historical research conducted by ASE, the building appears to have been constructed some time between 1914 and 1949, making this building the oldest building in the facility. This building utilizes a built-up style of roofing similar to Buildings 1, 2, and 3. Two windowed small penthouses are located centrally on the roof. ASE is not aware of any current uses for these penthouses, and was unable to obtain access for inspection. It is likely that these functioned as natural lighting and ventilation for the original structures. The basement of this building is primarily used for storage. The first floor is used for plate development for the printing process. The second floor is primarily used for the maintenance and machine shop, and the third floor is used for office spaces.

2.0 SCOPE OF SERVICES

On January 20 and 21, 2016 Cheryl Moody (NC Asbestos Inspector No.12067), Elliot Swain and Dan Post of ASE, conducted an asbestos survey of the News and Observer building. The survey consisted of observing the accessible areas of the subject site for the presence of suspect materials, which may contain asbestos. The survey involved detecting both friable materials (materials which can be pulverized or reduced to a powder by hand pressure when dry) and nonfriable materials (materials which pose a hazard when sawn, sanded, drilled or pulverized). Homogeneous materials (based on material type, color, texture, etc.) were identified and sampled.

In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages. Sampling was performed in general accordance with National Emission Standard for Hazardous Air Pollutants (NESHAP) protocols.

At least three samples of each suspect surfacing asbestos material or thermal system insulation (TSI) and one to three samples of each suspect miscellaneous asbestos material were collected for laboratory analysis. A total of 388 bulk samples were collected during the survey and submitted to EMSL Analytical, Inc. in Mooresville, North Carolina for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-020-82, Dec. 1982, or EPA 600/R-93/116, July 1993). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 200671-0.

A positive stop approach was used to reduce sample costs. The EPA defines an asbestos-containing material as a material containing one percent or more asbestos. EPA regulations require that multiple samples of each homogeneous area be collected for laboratory analysis. Using a positive stop approach, if the first sample in each set of homogeneous materials is determined to be asbestos-containing (1% or more asbestos), then the remaining samples in that set are presumed to be asbestos-containing and the laboratory does not analyze them. Numerous samples were layered and analyzed as multiple samples by the laboratory. Therefore, the laboratory analyzed 478 samples. In addition, fifty-six (56) samples were re-analyzed by the 400-point count method (with or without gravimetric reduction) in an attempt to reduce the quantity of material requiring abatement prior to renovation or demolition. Sampled materials consisted of the following materials:

- 12x12 inch floor tile
- 9x9 inch floor tile

- Rolled vinyl floor covering
- Yellow floor tile mastic
- Black floor tile mastic
- Baseboard mastic
- Leveling compound
- Roofing tar and felts
- Roofing insulation
- Roofing flashings
- Window caulking
- Window glazing
- Drywall/ joint compound
- Plaster
- Air cell pipe wrapping TSI
- Tar wrap on fiberglass TSI/Mud fittings
- TSI jacketing
- Roof drain TSI
- Mud fittings for piping joints and valves
- Exterior tar-based waterproofing
- Tar paper (in between exterior brick layers)
- Tar paper and waterproofing
- 2x4 foot ceiling tiles
- 2x2 foot ceiling tile
- 12x12 inch ceiling tiles
- 12x12 inch ceiling tile adhesive
- Red and grey putty sealant
- Expansion joint material
- Raised floor sealant
- Vinyl wall plate along stairwell
- Spray on fireproofing
- Tar sealant under wood floor
- Stucco
- Exterior ceiling surfacing (under porch)

3.0 RESULTS

Samples were separated according to their location within each of the six buildings. The EPA defines an asbestos-containing material as a material containing one percent or more asbestos. Asbestos containing material was identified in the following material at the facility

- Tar wrap on fiberglass TSI/Mud fittings
- Air cell insulation
- 12x12 floor tile
- 9x9 floor tile
- Black mastic
- Tar paper (in between exterior brick layers)

- Exterior tar-based waterproofing
- Window caulking and glazing
- Roof flashing (this includes tar and felts located beneath exterior layer)

Photos illustrating some of the ACM's identified in the facility has been included as an attachment to this report.

3.1 – Building Specific Results

The buildings and their associated results are as follows:

3.1.1 Building 1 and Mail Room

ASE collected 211 samples from this building. Ninety-five (95) samples were positive for ACM. Material identified as ACM include:

- Various 12x12 floor tile
- Various 9x9 floor tile
- Black mastic under floor tiles)
- Tar wrapped mud on fiberglass TSI elbows
- Air cell TSI
- Tar-based exterior waterproofing
- Tarpaper (in between exterior brick layers). **Note**: It is possible that this asbestos containing tarpaper could be found throughout the entire building, or it may be a waterproofing structure that extends a few feet off the ground. At this time, the extent of the tarpaper is unknown.
- Window glazing
- Window caulk
- TSI for capped 8-12 inch steam pipe
- Roof Flashing
- Flashing caulk

Please refer to Table 1 for a detailed description of the positive ACM samples for Building 1 and mailroom, Table 5 for estimated quantities, and Figures 2-6 for illustrations of positive sample locations.

In addition to the ACM identified above, numerous materials containing less than 1% asbestos were also identified. However, with the exception of the following materials, these less than 1% asbestos materials are associated with other materials that are classified as ACM and will subsequently be abated with the ACM.

- Second floor tile and mastic in eastern addition.
- Window glazing present on west and south side of building (assume all window glazing as <1%).
- Exterior window calk on the eastern window (near roof of post office).

3.1.2 Building 2

ASE collected 61 samples from this building. Thirteen (13) samples were positive for ACM. Material

identified as ACM include:

- Roof flashing
- 12x12 floor tile
- Black mastic

Please refer to Table 2 for a detailed description of the positive ACM samples for Building 2, Table 5 for estimated quantities and Figures 7-9 for illustrations of positive sample locations.

In addition to the ACM identified above numerous materials containing less than 1% asbestos were also identified. However, these less than 1% asbestos materials are associated with other materials that are classified as ACM and will subsequently be abated with the ACM.

3.1.3 Building 3

ASE collected 41 samples from this building. Five (5) samples were positive for ACM. Material identified with ACM include

- Roof flashing
- 12x12 floor tile
- Black mastic

Please refer to Table 3 for a detailed description of the positive ACM samples for Building 3, Table 5 for estimated quantities and Figures 10 and 11 for illustrations of positive sample locations.

In addition to the ACM identified, the black mastic under the 12x12 floor tile contained less than 1% asbestos.

3.1.4 Building 4

ASE collected 29 samples from this building. ACM was not identified in the analyzed samples.

3.1.5 Building 5

ASE collected 11 samples from this building. ACM was not identified in the analyzed samples.

3.1.6 Building 6

ASE collected 35 samples from this building. Fourteen (14) samples were positive for ACM. Material identified as ACM include:

- 12x12 floor tile
- Black mastic

Please refer to Table 4 for a detailed description of the positive ACM samples for Building 6, Table 5 for estimated quantities and Figures 12-14 for illustrations of positive sample locations.

In addition to the ACM identified above numerous materials containing less than 1% asbestos were also

identified. However, these less than 1% asbestos materials are associated with other materials that are classified as ACM and will subsequently be abated with the ACM.

The EPA and State of North Carolina defines an asbestos-containing material as a material containing one percent or more asbestos. Less than 1 % asbestos was identified is some building material. Neither the EPA nor the State of North Carolina regulates these materials. The abatement of these materials is not required prior to demolition of the structure.

However, it should be noted that the Occupational Safety and Health Administration (OSHA) regulates any quantity of asbestos material. This OSHA requirement is applicable to occupied buildings and deals with how to address asbestos to reduce occupational exposure to workers. OSHA regulations state that work within an area containing any quantity of asbestos material would require performing a negative exposure assessment and following OSHA worker protection rules during demolition and renovations.

It should be noted that ASE did not conduct destructive testing and hidden suspect material could be identified during demolition of the structures.

4.0 CONCLUSIONS AND RECOMENDATIONS

The identified asbestos containing materials were either in good condition or not in high traffic areas at the time of our assessment. If the above referenced asbestos materials are to be disturbed by renovations or demolition, the asbestos must be removed in accordance with EPA, State of North Carolina and OSHA asbestos regulations. The State of North Carolina, Health Hazards Control Unit (HHC) has specific regulations that must be adhered to during asbestos removal/abatement projects.

Since the structure is scheduled for demolition, we recommend the following:

1. Abate the asbestos materials in the structure prior to demolition.
2. ASE can provide an abatement design and perform the required air monitoring during the abatement activities.

You should be aware that stringent requirements are imposed upon anyone renovating or demolishing a structure in which ACM will be disturbed. This work must be performed in accordance with OSHA asbestos regulations, 29 CFR 1910 & 1926, and NESHAP asbestos regulations 40 CFR 61, subpart M. North Carolina regulations require the accreditation of personnel who work in the asbestos field and notification and permitting fees for asbestos removal projects. There is a 10 working day notification period required prior to abatement of more than 160 square-feet or 260 linear-feet of regulated asbestos in a facility. Failure to take proper precautions and actions to protect human health and the environment can result in penalties, danger to personnel, and construction delays.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for asbestos abatement. If you are planning an asbestos abatement project, please contact ASE to discuss the requirements. Use of this document without the expressed written consent of ASE is at the sole risk of the user and or/abatement contractor.

This report summarizes our evaluation of the conditions observed at the site. The findings prepared by ASE are based upon the testing performed. Additional ACM may exist (undetected) in other areas due to their inaccessibility or due to the limited nature of our testing. Our recommendations are based on the guidelines presented in EPA, State of North Carolina or OSHA asbestos regulations.

TABLES

Table 1 Building 1 Asbestos Containing Materials							
Sample	Location	Description	Percent Asbestos	Friability	Condition	Fiber release Potential	Notes
1-3A, B*	Bldg 1. Penthouse	Blue floor tile	2% Chrysotile	NF	Good	Low	3 layers of tile - Bottom layer
1-3A, B*	Bldg 1. Penthouse	Black mastic under tile	10% Chrysotile	NF	Good	Low	
1-10A, B*	Bldg 1. 3rd floor stairwell	Black mastic under 1-9A and 1-9B	5% Chrysotile	NF	Good	Low	2 layers of tile. Bottom layer
1-11A, B*, C*	Bldg 1. 3rd floor	12x12 tile, white w/ Gray Streaks	3% Chrysotile	NF	Fair-good	Low	2 layers of tile. 11 and 12 patches on top layer
1-11A, B*, C*	Bldg 1. 3rd floor	Black mastic under 1-11A	5% Chrysotile	NF	Good	Low	
1-12A	Bldg 1. 3rd floor	Black Mastic under 1-12-A tile	0.7% Chrysotile	NF	Good	Low	
1-12B	Bldg 1. 3rd floor	Black Mastic under 1-12-A tile	1.4% Chrysotile	NF	Good	Low	
1-13A	Bldg 1. 3rd floor (closet)	9x9 tile	3% Chrysotile	NF	Fair	Low	1 layer of tile
1-13A	Bldg 1. 3rd floor (closet)	9x9 tile mastic	5% Chrysotile	NF	Good	Low	
1-14A, B*, C*	Bldg 1. 3rd floor	Tile Under 1-11C	3% Chrysotile	NF	Fair-Good	Low	Bottom layer for 1-11 and 1-12
1-14A, B*, C*	Bldg 1. 3rd floor	Black mastic under 1-14A	3% Chrysotile	NF	Good	Low	
1-17A, B*	Bldg 1. 3rd floor	9x9 tile	3% Chrysotile	NF	Fair-Good	Low	1 layer of tile
1-17A, B*	Bldg 1. 3rd floor	9x9 tile mastic	5% Chrysotile	NF	Good	Low	
1-19A, B*, C*	Bldg 1. 3rd floor, Mechanical Rm	Pipe Wrap & TSI	5% Chrysotile	F	Fair-good	High	
1-22A	Bldg 1. 3rd floor, Mechanical Rm	Mud Fitting	2.50% Chrysotile	F	Fair-good	High	
1-22B	Bldg 1. 3rd floor, Mechanical Rm	Mud Fitting	4.25% Chrysotile	F	Fair-good	High	
1-23A	Bldg 1. 2nd floor	Black mastic under 1-23A tile	0.6% Chrysotile	NF	Good	Low	3 layers of tile. 1-23 top layer, 1-24 second layer, 1-25 bottom layer
1-23B	Bldg 1. 2nd floor	Black mastic	0.9% Chrysotile	NF	Good	Low	
1-24A	Bldg 1. 2nd floor	Tile under 1-23	3.9% Chrysotile	NF	Good	Low	
1-24A	Bldg 1. 2nd floor	Black mastic under 1-24A tile	1.8% Chrysotile	NF	Good	Low	
1-24B	Bldg 1. 2nd floor	Tile under 1-23	2.1% Chrysotile	NF	Good	Low	
1-24B	Bldg 1. 2nd floor	Black mastic under 1-24B tile	3.5% Chrysotile	NF	Good	Low	
1-25A	Bldg 1. 2nd floor	Black mastic under 1-25A tile	1.4% Chrysotile	NF	Good	Low	
1-25B	Bldg 1. 2nd floor	Gray/White floor tile	<1% Chrysotile	NF	Good	Low	
1-25B	Bldg 1. 2nd floor	Black mastic under 1-25B tile	1.9% Chrysotile	NF	Good	Low	
1-27A	Bldg 1. 2nd floor	Black/brown mastic	<0.25% Chrysotile	NF	Good	Low	
1-29A	Bldg 1. 2nd floor, Hall	Black mastic	0.3% Chrysotile	NF	Good	Low	3 layers of tile. 1-28 top layer, 1-29 second layer, 1-30 bottom layer
1-29B	Bldg 1. 2nd floor, Hall	Black mastic	<0.25% Chrysotile	NF	Good	Low	
1-30A, B*	Bldg 1. 2nd floor	White/Black floor tile	2% Chrysotile	NF	Good	Low	
1-30A, B*	Bldg 1. 2nd floor, Hall	Black mastic	8% Chrysotile	NF	Good	Low	
1-32A, B*	Bldg 1. 2nd floor south stairwell	Gray tile	5% Chrysotile	NF	Good	Low	2 layers of tile. Bottom layer
1-32A	Bldg 1. 2nd floor south stairwell	Black mastic under 1-32A tile	5% Chrysotile	NF	Good	Low	
1-37A	Bldg 1. 1st floor	Floor tile in hall (2nd layer) under 1-39	2% Chrysotile	NF	Good	Low	Possibly 3 layers. 1-39 top layer, 1-37 second layer, 1-38 bottom layer
1-37A, B*	Bldg 1. 1st floor	Black mastic under 1-37A tile	5% Chrysotile	NF	Good	Low	
1-38A, B*	Bldg 1. 1st floor, utility closet	9x9 tile	5% Chrysotile	NF	Good	Low	
1-38A	Bldg 1. 1st floor, utility closet	Black mastic	5% Chrysotile	NF	Good	Low	
1-41A	Bldg 1. 1st floor, utility closet	Tar wrapped TSI MUD	8% Chrysotile	F	Fair	High	
1-42A	Bldg 1. 1st floor Nurses office	Tile under carpet	3.5% Chrysotile	NF	Good	Low	2 layers of tile. 1-42 top layer. 1-43 bottom layer
1-42A	Bldg 1. 1st floor Nurses office	Black mastic under 1-42A	<1% Chrysotile	NF	Good	Low	
1-42B	Bldg 1. 1st floor Nurses office	Tile under carpet	4.2% Chrysotile	NF	Good	Low	
1-42B	Bldg 1. 1st floor Nurses office	Black mastic	<1% Chrysotile	NF	Good	Low	
1-43A, B*	Bldg 1. 1st floor Nurses office	tile under 1-42	2% Chrysotile	NF	Good	Low	
1-43A	Bldg 1. 1st floor Nurses office	Black mastic	5% Chrysotile	NF	Fair-good	Low	
1-45A, B*, C*	Bldg 1. 1st floor above mens bathroom	Air Cell TSI	40% Chrysotile	F	Fair-good	High	
1-48A, B*	Bldg 1. 1st floor lunch room	Blue 12x12 tile (2nd layer)	<1% Chrysotile	NF	Good	Low	4 layers of tile. 1-46/47 top. 1-48 second.1-49 third. 1-50 bottom layer
1-48A, B*	Bldg 1. 1st floor lunch room	Black mastic under blue tile	10% Chrysotile	NF	Good	Low	
1-49A, B*	Bldg 1. 1st floor lunch room	Black mastic under 3rd layer of tile	5% Chrysotile	NF	Good	Low	
1-50A, B*	Bldg 1. 1st floor lunch room	Beige Tile (4th layer of tile)	5% Chrysotile	NF	Good	Low	
1-50A, B*	Bldg 1. 1st floor lunch room	Black mastic (under 4th layer tile)	8% Chrysotile	NF	Good	Low	
1-51A	Bldg 1. 1st floor	White floor tile under carpet	0.7%% Chrysotile	NF	Good	Low	1 layer of tile
1-51A	Bldg 1. 1st floor	Black mastic under 1-51A tile	<0.25% Chrysotile	NF	Good	Low	
1-51B	Bldg 1. 1st floor	White tile under carpet	1.2% Chrysotile	NF	Good	Low	
1-51B	Bldg 1. 1st floor	Black mastic under 1-51B tile	4.4% Chrysotile	NF	Good	Low	
1-52A	Bldg 1. 1st floor, hall in cubes	Floor tile	<1% Chrysotile	NF	Good	Low	2 layers. 1-52 top layer. 1-53 bottom layer
1-52A	Bldg 1. 1st floor, hall in cubes	Black mastic under tile	0.4% Chrysotile	NF	Good	Low	
1-52B	Bldg 1. 1st floor, hall in cubes	Floor tile	<1% Chrysotile	NF	Good	Low	
1-52B	Bldg 1. 1st floor, hall in cubes	Black mastic under tile	5% Chrysotile	NF	Good	Low	
1-53A, B*	Bldg 1. 1st floor, hall in cubes	Beige floor tile	5% Chrysotile	NF	Good	Low	
1-53A, B*	Bldg 1. 1st floor, hall in cubes	Black mastic	8% Chrysotile	NF	Good	Low	
1-56A, B*	Bldg 1. 1st floor, photo studio	Black mastic under 12x12 black tile	5% Chrysotile	NF	Good	Low	1 layer of tile
1-57A	Bldg 1. 1st floor, photo studio	Black mastic under 12x12 white tile	<1% Chrysotile	NF	Good	Low	
1-57B	Bldg 1. 1st floor, photo studio	Black mastic under 12x12 white tile	3% Chrysotile	NF	Good	Low	
1-58A, B*	Bldg 1. 1st floor, photo studio at door	Beige 12x12 floor tile	3% Chrysotile	NF	Good	Low	
1-59	Bldg 1. 1st floor, under carpet	12x12 tile	2% Chrysotile	NF	Good	Low	1 layer of tile
1-59	Bldg 1. 1st floor, under carpet	Black mastic	8% Chrysotile	NF	Good	Low	
1-61A	Bldg 1. 2nd floor	Floor tile	<1% Chrysotile	NF	Good	Low	
1-61A	Bldg 1. 2nd floor	Black mastic under floor tile	<1% Chrysotile	NF	Good	Low	
1-61B	Bldg 1. 2nd floor	Floor tile	<1% Chrysotile	NF	Good	Low	
1-61B	Bldg 1. 2nd floor	Black mastic	<1% Chrysotile	NF	Good	Low	
1-64A	Bldg 1. 1st Floor photo lab	Mud fitting on air cell	5.5% Chrysotile	F	Good	High	
1-64B	Bldg 1. 1st Floor photo lab	Mud fitting on air cell	3.25% Chrysotile	F	Good	High	
1-68A,C*	Bldg 1. Basement above ceiling	Mud fitting on fiberglass TSI	<1% Chrysotile	F	Good	High	

1-68B, C*	Bldg 1. Basement above ceiling	Mud fitting on fiberglass TSI	10% Chrysotile	F	Good	High	
1-73A	Bldg 1. Exterior N side	Water Proofing patch	1.7% Chrysotile	NF	Good	Low	
1-73B	Bldg 1. Exterior N side	Water Proofing patch	2.6% Chrysotile	NF	Good	Low	
1-74A, B*	Bldg 1. Exterior N side	Water proofing (2 layers)	5% Chrysotile	NF	Good	Low	
1-75A, B*	Bldg 1. Exterior N side	Flashing Caulk	5% Chrysotile	NF	Good	Low	
1-76A, B*	Bldg 1. Exterior N side	Tar paper 1	10% Chrysotile	NF	Good	Low	
1-76A, B*	Bldg 1. Exterior N side	Tar paper 2	10% Chrysotile	NF	Good	Low	
1-76A, B*	Bldg 1. Exterior N side	Tar paper 3	10% Chrysotile	NF	Good	Low	
1-77A, B*	Bldg 1. Exterior N side	Tar paper between brick layer	8% Chrysotile	NF	Good	Low	
1-78A	Bldg 1. Exterior W side	Window glaze	<1% Chrysotile	NF	Good	Low	
1-78B	Bldg 1. Exterior W side	Window glaze	<1% Chrysotile	NF	Good	Low	
1-80A, B*	Bldg 1. Exterior S side	Window Caulk	8% Chrysotile	NF	Good	Low	
PO-4A	PO Bldg	Interior window glazing	2.6% Chrysotile	NF	Good	Low	
PO-4B	PO Bldg	Interior window glazing	2.2% Chrysotile	NF	Good	Low	
M-R1A, B*	Mailroom, roof	Plugged steam pipe insul at wall penetration	10% Amosite 25% Chrysotile	F	Good	High	
M-R6	Mailroom, roof	Flashing cement	8% Chrysotile	NF	Good	Low	
M-R7	Mailroom, roof	Flashing Caulk	5% Chrysotile	NF	Good	Low	
M-R8A	Mailroom, roof	Exterior window caulk	<1% Chrysotile	NF	Good	Low	
M-R8B	Mailroom, roof	Exterior window caulk	<1% Chrysotile	NF	Good	Low	
2-R1	Bldg 2. Roof, window	Window Caulk, gray/white	2.4% Chrysotile	NF	Good	Low	
2-R2	Bldg 2. Roof, window	Window Caulk, gray/white	2.2% Chrysotile	NF	Good	Low	
2-R3	Bldg 2. Roof, Window	Window Glazing	0.7% Chrysotile	NF	Good	Low	
2-R4	Bldg 2. Roof, Window	Window Glazing	0.5% Chrysotile		Good	Low	

Notes: * Positive stop. Not analyzed
Highlighted samples contain less than 1% asbestos that will remain after abatement
See table 5 report for approximate ACM quantities.

Table 2 Building 2 Asbestos Containing Materials						
Sample	Location	Description	Percent Asbestos	Friability	Condition	Fiber release Potential
2-R7, 8*	Bldg 2. Roof	Flashing	5% Chrysotile	NF	Good	Low
2-3A	Bldg 2. 3rd floor small office	12x12 floor tile	0.5% Chrysotile	NF	Good	Low
2-3A	Bldg 2. 3rd floor small office	Black mastic	0.5% Chrysotile	NF	Good	Low
2-3B	Bldg 2. 3rd floor small office	12x12 floor tile	1.9% Chrysotile	NF	Good	Low
2-3B	Bldg 2. 3rd floor small office	Black mastic	1.9% Chrysotile	NF	Good	Low
2-6A	Bldg 2. 3rd floor mech room	12x12 floor tile	2.5% Chrysotile	NF	Good	Low
2-6A	Bldg 2. 3rd floor mech room	Black mastic	1.8% Chrysotile	NF	Good	Low
2-6B	Bldg 2. 3rd floor mech room	12x12 floor tile	1.4% Chrysotile	NF	Good	Low
2-6B	Bldg 2. 3rd floor mech room	Black mastic	1.4% Chrysotile	NF	Good	Low
2-15A	Bldg 2. 2nd floor Lunchroom & Hall	12x12 floor tile white	<0.25% Chrysotile	NF	Good	Low
2-15A	Bldg 2. 2nd floor Lunchroom & Hall	Black mastic	1.1% Chrysotile	NF	Good	Low
2-15B	Bldg 2. 2nd floor Lunchroom & Hall	12x12 floor tile white	<0.25% Chrysotile	NF	Good	Low
2-15B	Bldg 2. 2nd floor Lunchroom & Hall	Black mastic	1.1% Chrysotile	NF	Good	Low
Notes:	* Positive stop. Not analyzed Assume one layer of tile See Table 5 for approximate quanitites					

Table 3
Building 3 Asbestos Containing Materials

Sample	Location	Description	Percent Asbestos	Friability	Condition	Fiber release Potential
3-R3b	Bldg 3. Roof	Flashing	8% Chrysotile	NF	Good	Low
3-5A	Bldg 3. 1st floor hall	12x12 white tile	2.1% Chrysotile	NF	Good	Low
3-5A	Bldg 3. 1st floor hall	Black mastic	0.3% Chrysotile	NF	Good	Low
3-5B	Bldg 3. 1st floor hall	12x12 white tile	2.9% Chrysotile	NF	Good	Low
3-5B	Bldg 3. 1st floor hall	Black mastic	<0.25% Chrysotile	NF	Good	Low

Notes: * Positive stop. Not analyzed
Highlighted samples contain less than 1% asbestos that will remain after abatement
See table 5 for approximate ACM quantities.

Table 4 Building 6 Asbestos Containing Building Materials							
Sample	Location	Description	Percent Asbestos	Friability	Condition	Fiber release Potential	Notes
6-R3b	Bldg 6. Roof	Flashing, bottom layer-felts/Tar	10% Chrysotile	NF	Good	Low	
6-5A, B*	Bldg 6. 2nd floor hall	12x12 tile under 6-4A/B	5% Chrysotile	NF	Good	Low	2 layers. Bottom layer
6-7A	Bldg 6. 2nd floor shop	White tile (possibly same as 6-5A)	<1% Chrysotile	NF	Good	Low	2 layers. Bottom layer
6-7A	Bldg 6. 2nd floor shop	brown/black mastic	<0.25% Chrysotile	NF	Good	Low	
6-11A, B*	Bldg 6. 3rd weight room	Tile under carpet	3% Chrysotile	NF	Good	Low	
6-11A, B*	Bldg 6. 3rd weight room	Black mastic	5% Chrysotile	NF	Good	Low	
2-13A	Bldg 6. Abandoned stairwell	9x9 floor tile	6% Chrysotile	NF	Good	Low	
2-13A	Bldg 6. Abandoned stairwell	Black mastic	8.6% Chrysotile	NF	Good	Low	
2-13B	Bldg 6. Abandoned stairwell	9x9 floor tile	7.3% Chrysotile	NF	Good	Low	
2-13B	Bldg 6. Abandoned stairwell	Black mastic	11.8% Chrysotile	NF	Good	Low	
2-20A	Bldg 6. 3rd floor IT room	Tile under carpet	<1% Chrysotile	NF	Good	Low	
2-20A	Bldg 6. 3rd floor IT room	Black mastic	2.3% Chrysotile	NF	Good	Low	
2-20B	Bldg 6. 3rd floor IT room	Tile under carpet	<1% Chrysotile	NF	Good	Low	
2-20B	Bldg 6. 3rd floor IT room	Black mastic	0.9% Chrysotile	NF	Good	Low	

Notes: * Positive stop. Not analyzed

See table 5 for approximate ACM quantities.

Table 5 ACM and Estimated Quantity		
Building	**Material Description**	**Approximate Quantity**
1	Various 12x12 floor tile	26,700 ft^2
	Black Mastic under floor tiles	
	Various 9x9 floor tile	200 ft^2
	Tar Wrapped mud on fiber glass TSI elbows	90 fittings
	Air cell TSI	115 Lf
	Tar-based exterior waterproofing	120 ft^2
	*Tarpaper (located between exterior brick layers)	Unknown
	Window Glazing	50 Lf
	Window Caulk	265 Lf
	TSI for capped 8-12 inch steam pipe	3 Lf
	Roof flashing located above Mail Room	27 Lf
	Flashing caulk located above Mail Room	
2	Roof flashing	180 Lf
	12x12 floor tile	500 ft^2
	Black Mastic under floor tiles	5,775 ft^2
3	Roof flashing	210 Lf
	12x12 floor tile	5,775 ft^2
6	Roof flashing	130 Lf
	12x12 floor tile	1,200 ft2
	Black Mastic under floor tiles	
	9x9 floor tile	20 ft^2

Notes:

These quanities are estimates only and should not be relied on by the abatement contractor in determaning abatement costs. **The quantities should be independently verified by the bidder.**

*The extent of this tarpaper is not known at this time. It may represent waterproofing material that extens several feet up the wall or it could be present in all of the exterior walls

The estimated areas included in this table are also illustrated in Figures 1-14

FIGURES

Figure 1. Building Vintages

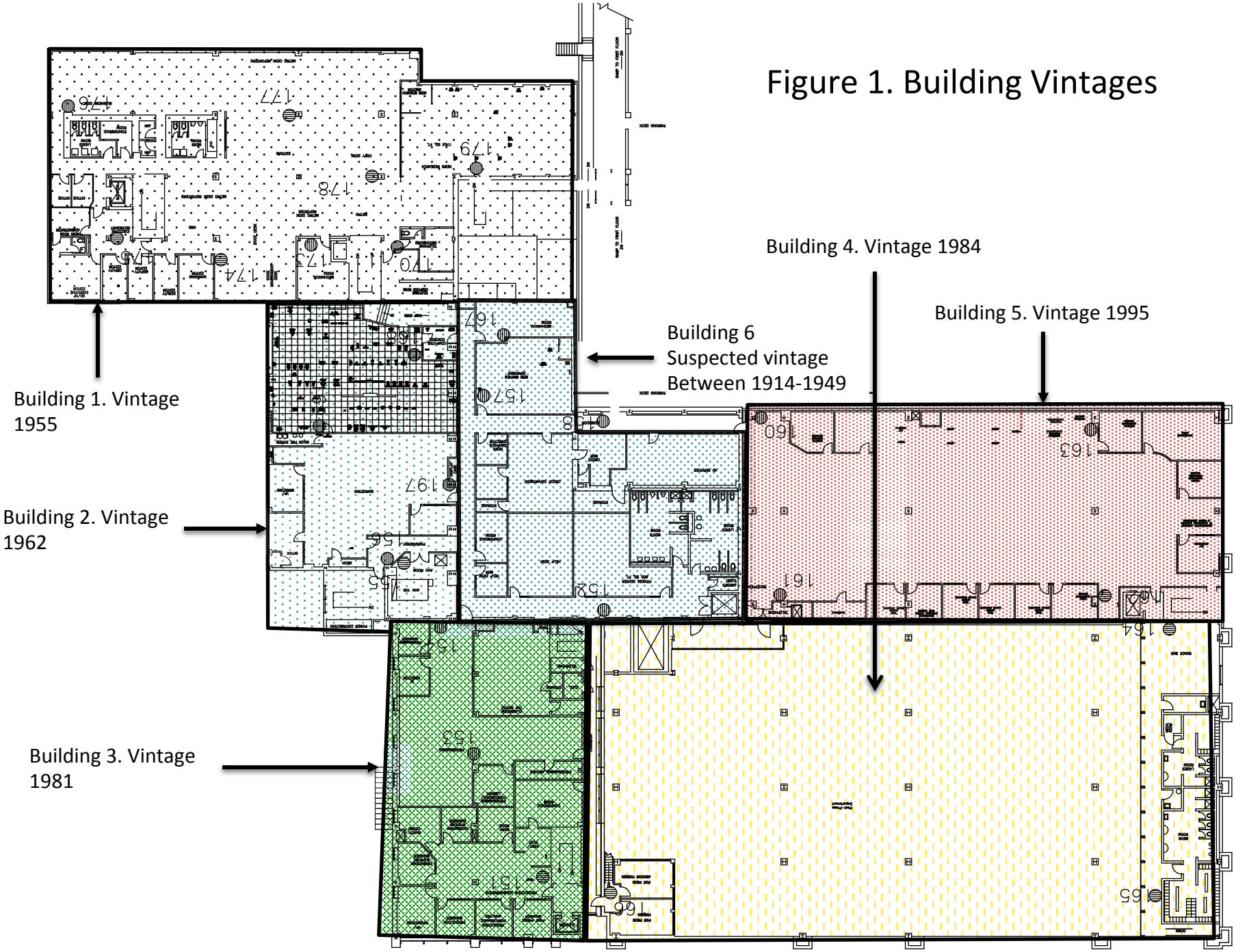


Figure 2 Building 1. Basement

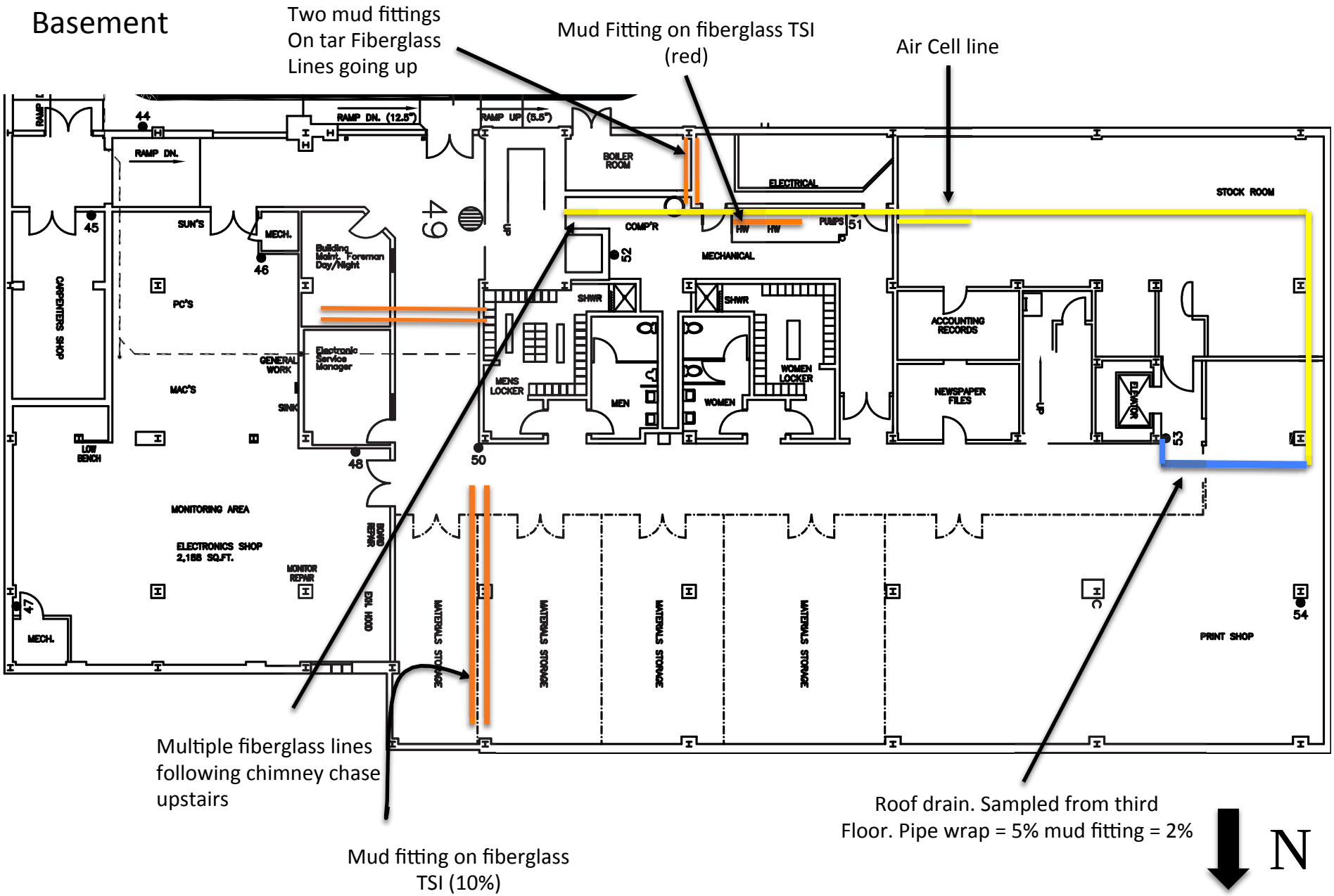


Figure 3 Building 1. First Floor

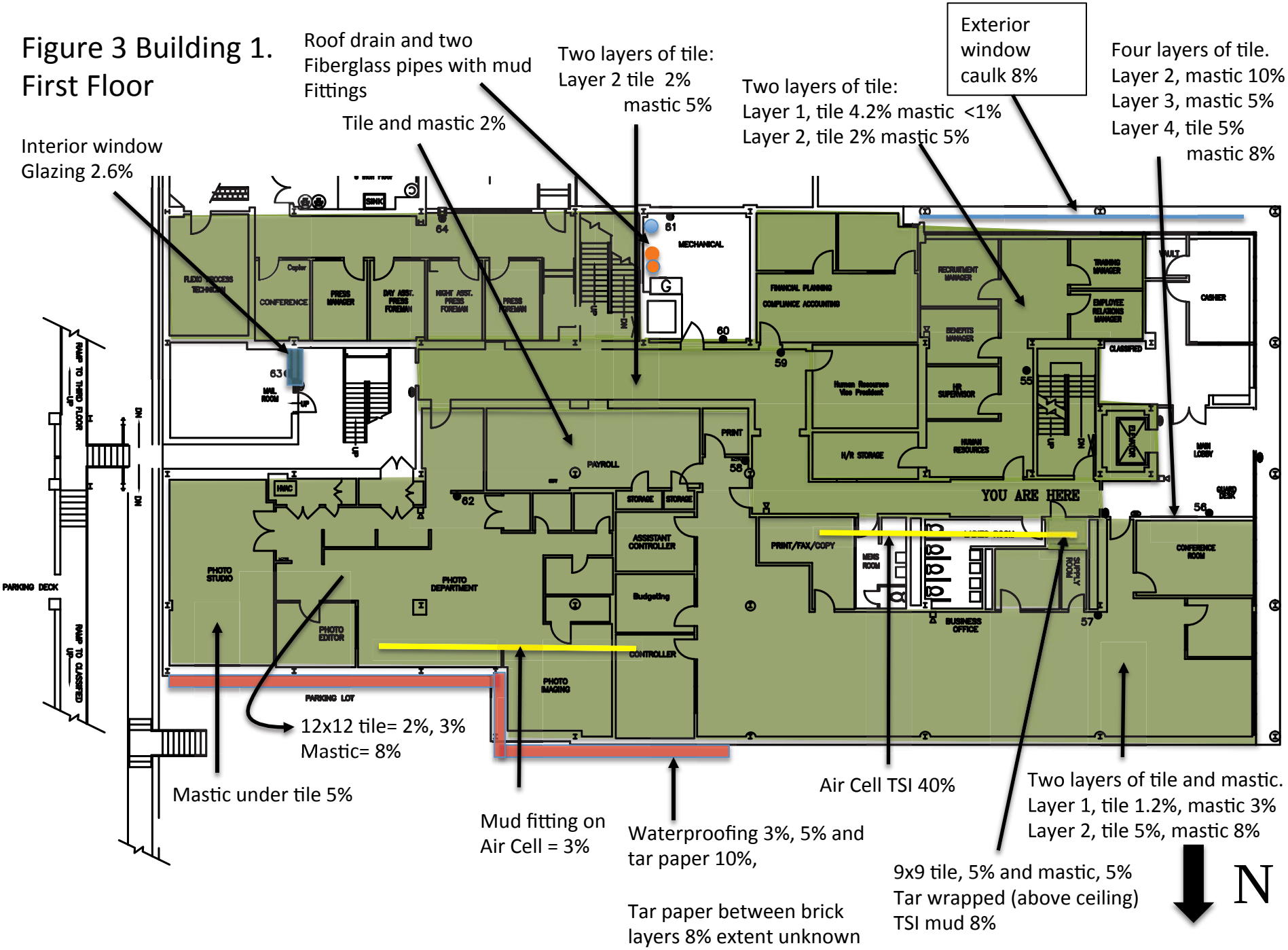


Figure 4 Building 1. Second Floor

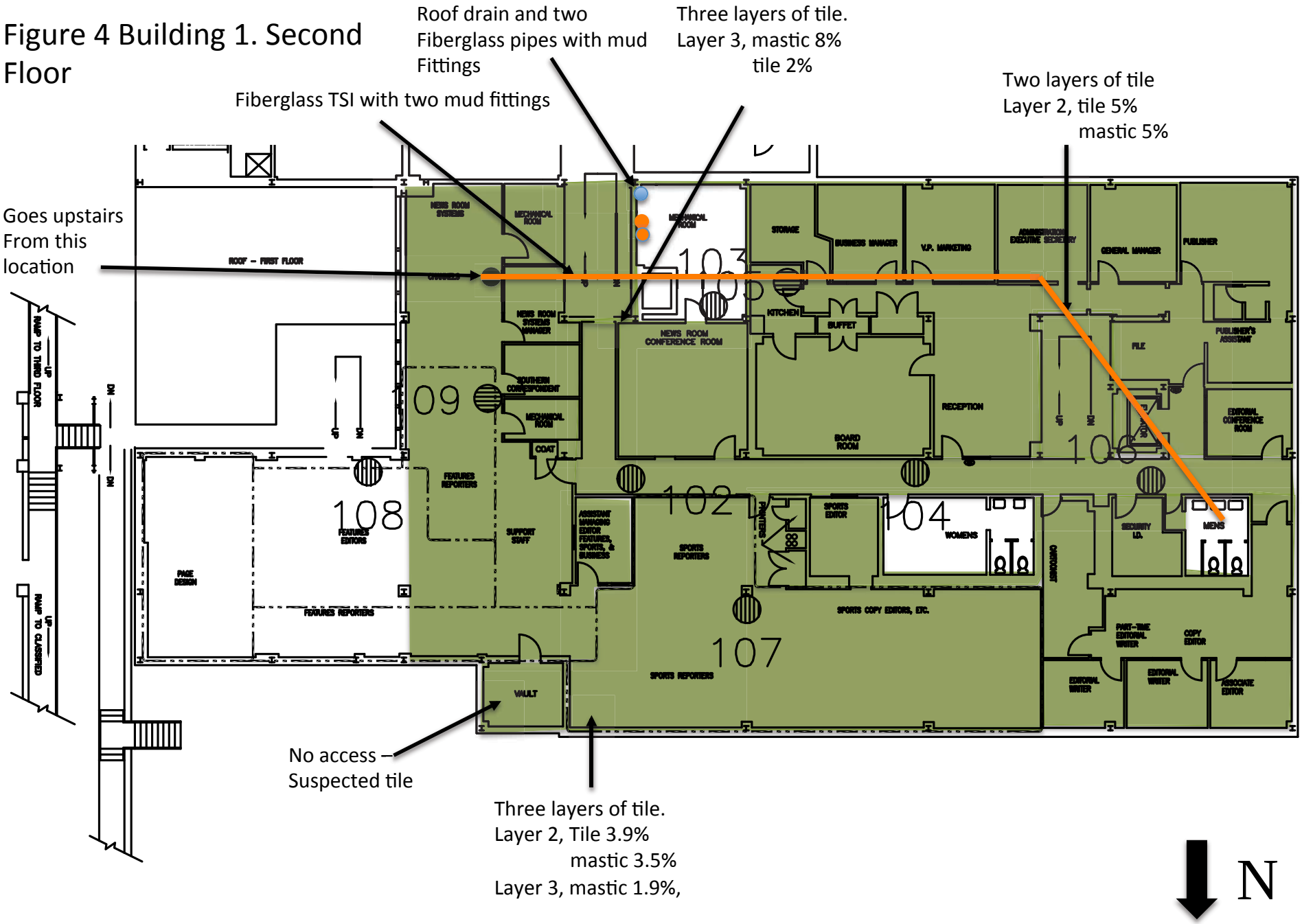


Figure 5 Building 1. Third Floor

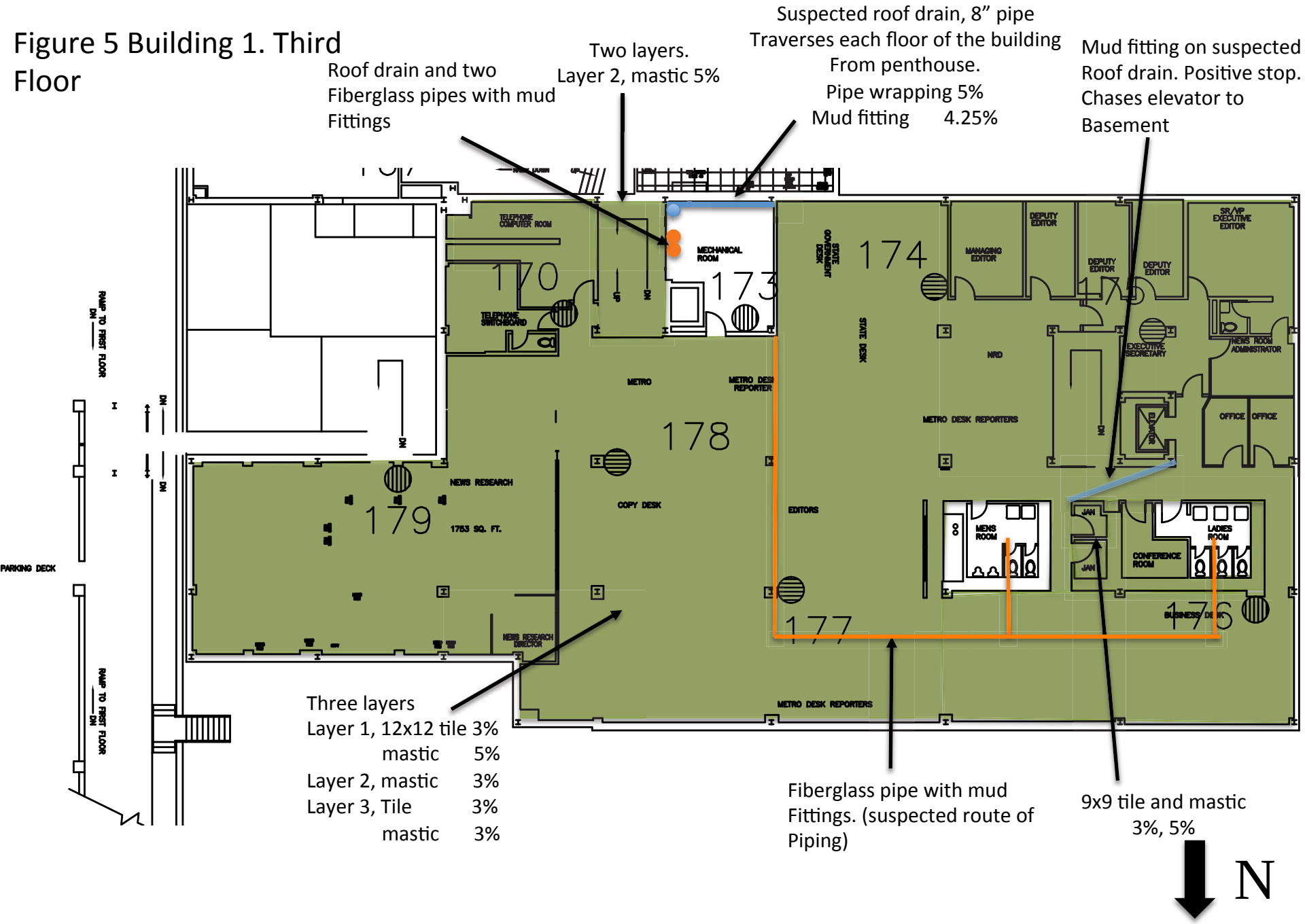


Figure 6 Building 1. Roof/ Penthouse

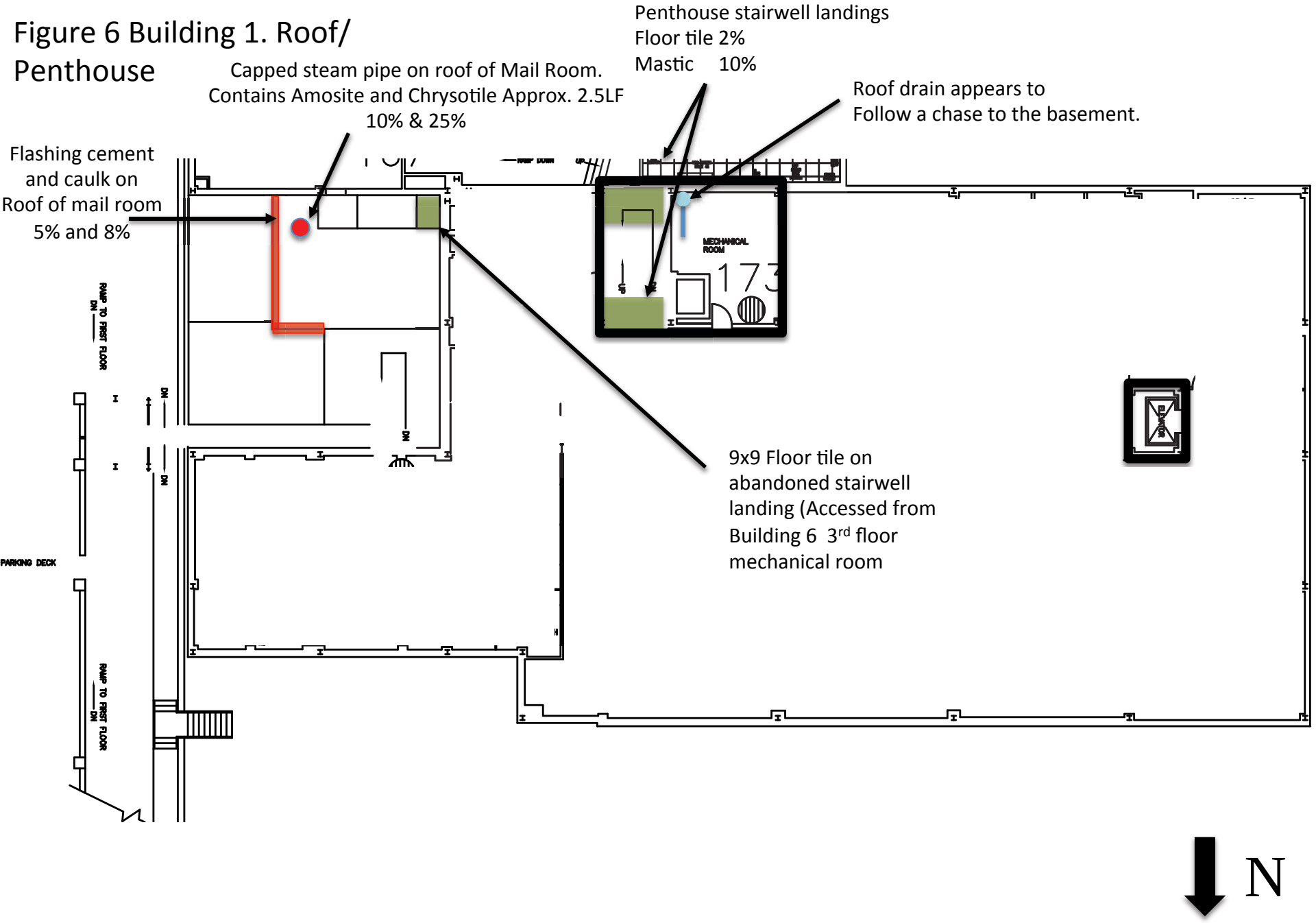


Figure 7 Building 2.
Second floor

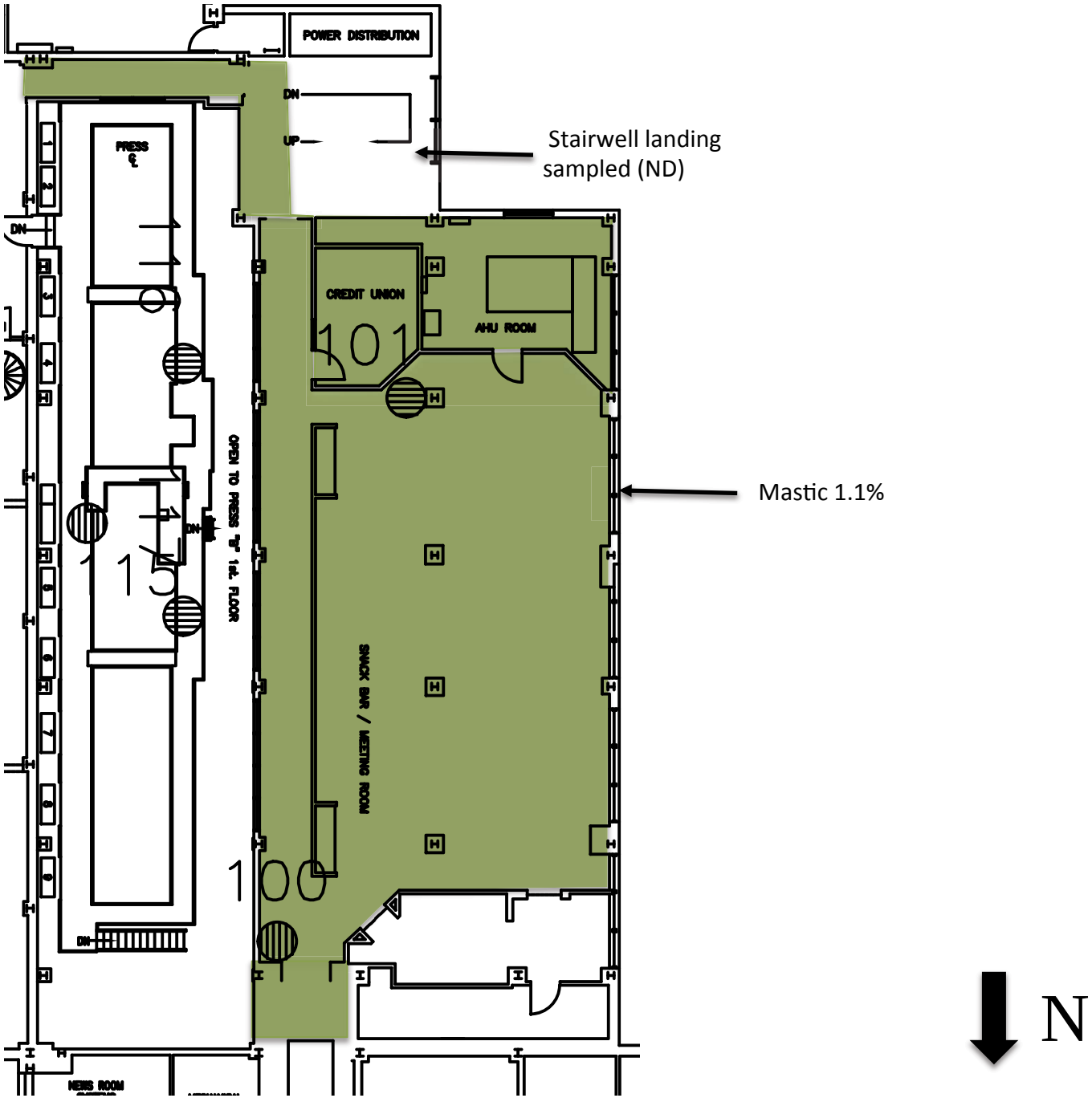


Figure 8 Building 2.
Third floor

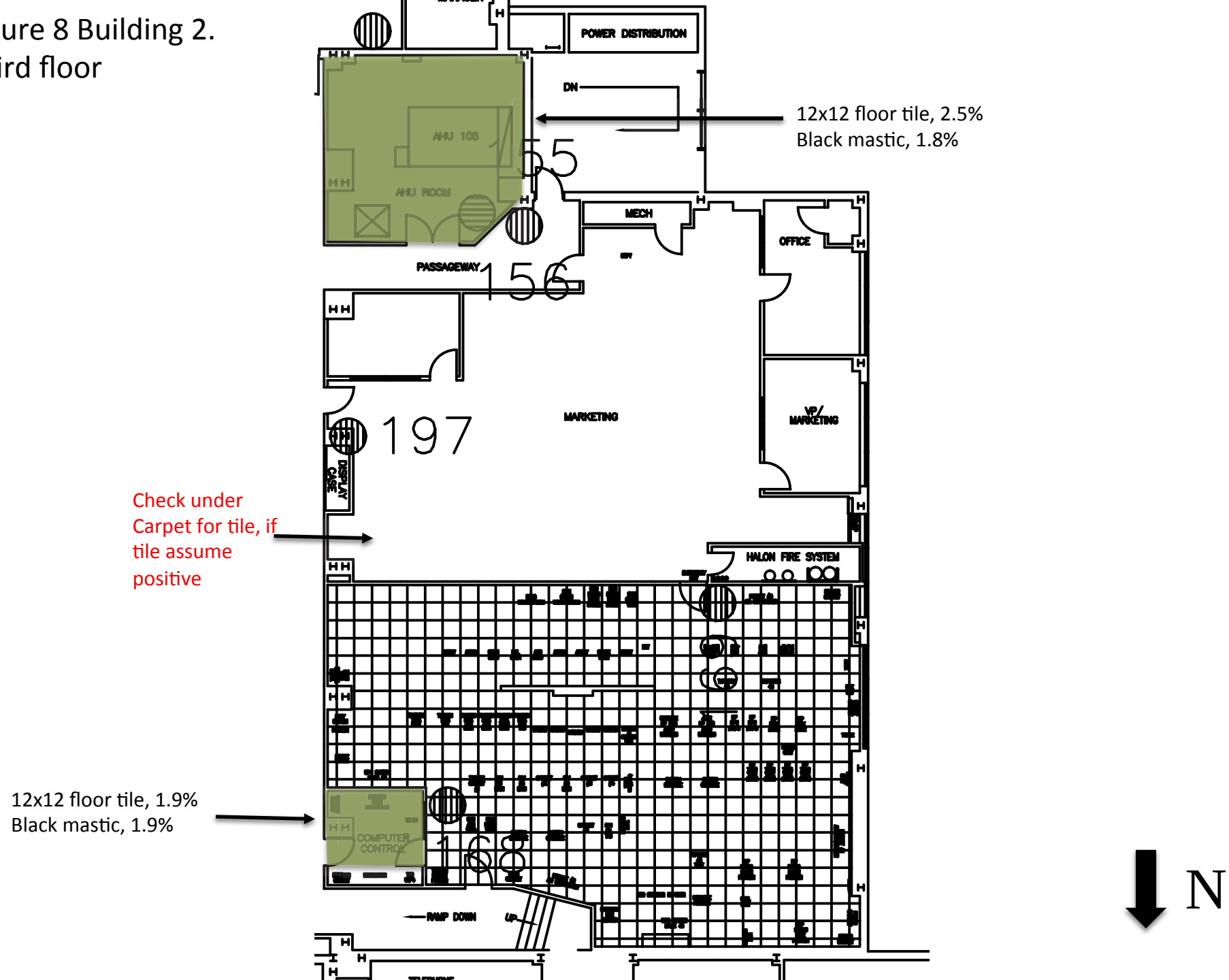


Figure 9 Building 2. Roof

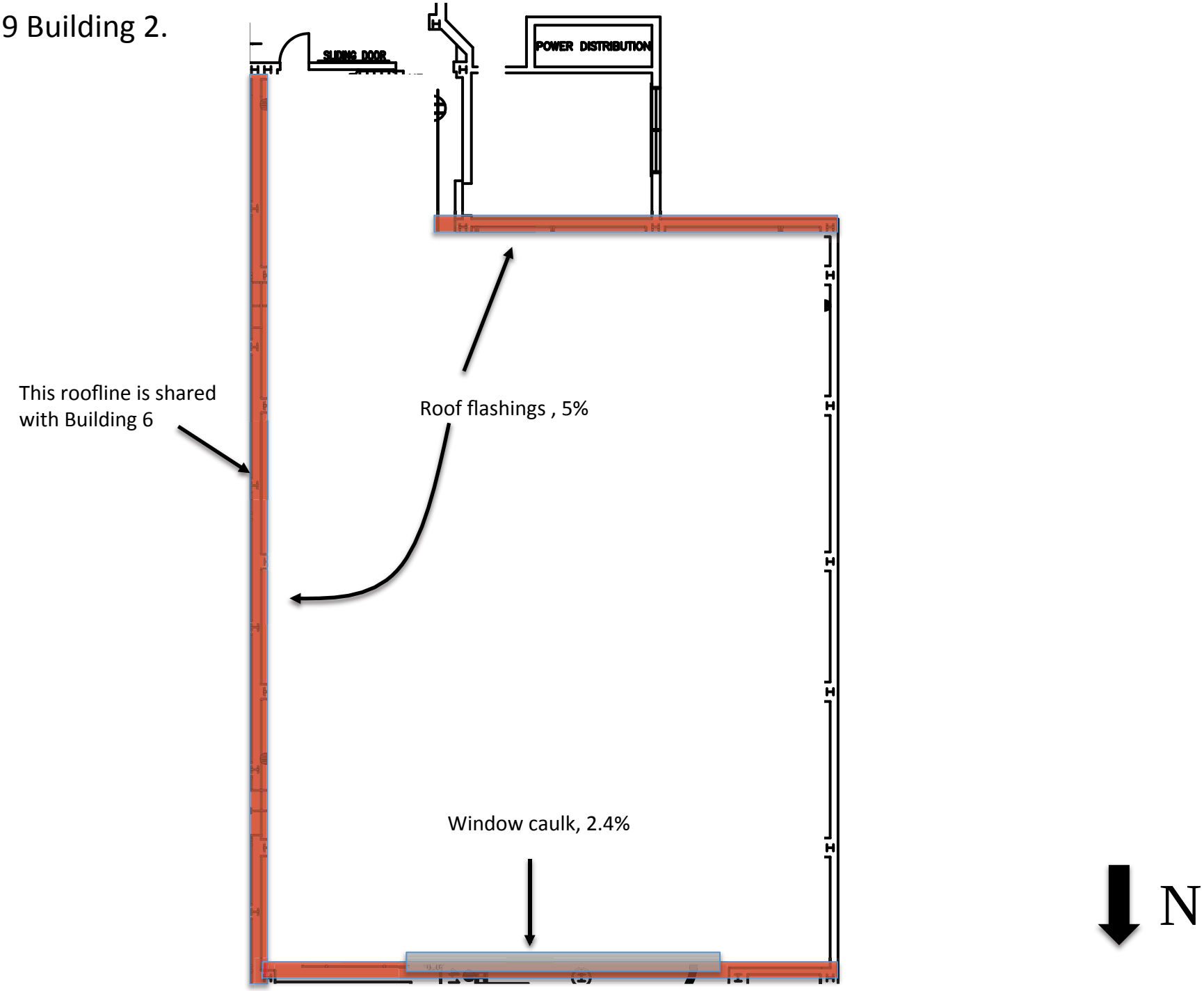
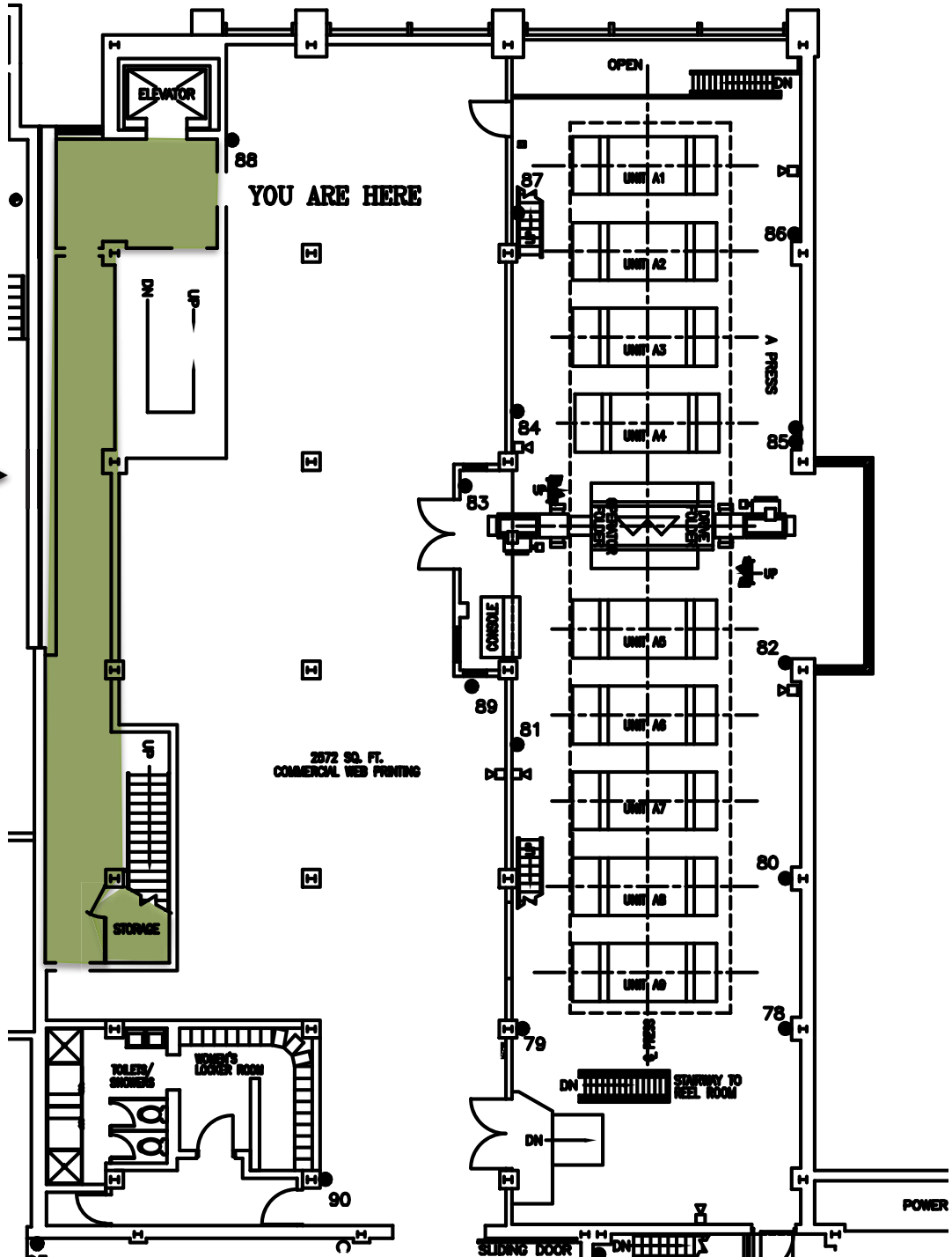


Figure 10 Building 3. First floor

12x12 tile, 2.9%
Mastic <1%



N

Figure 11 Building 3. Roof

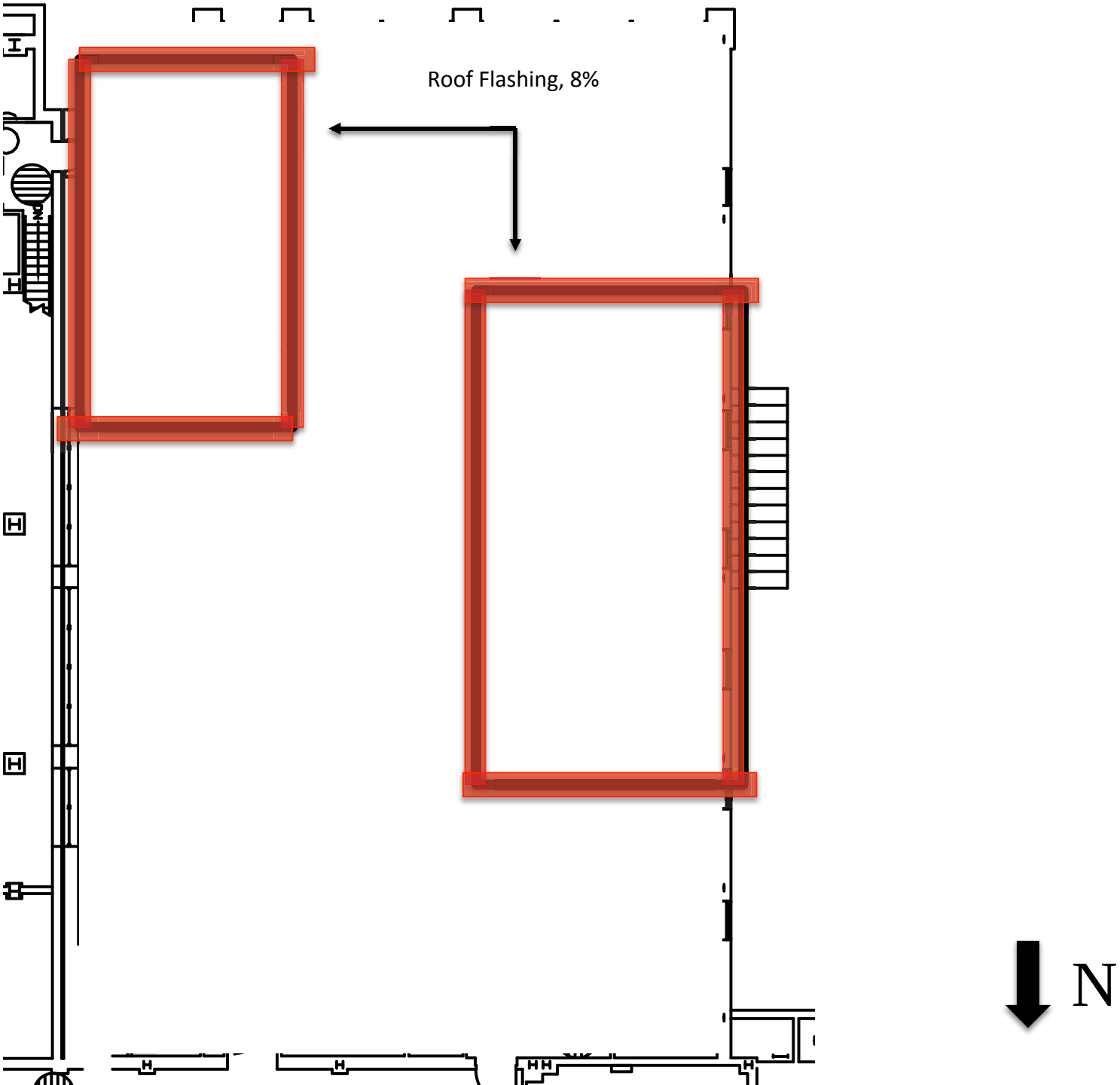
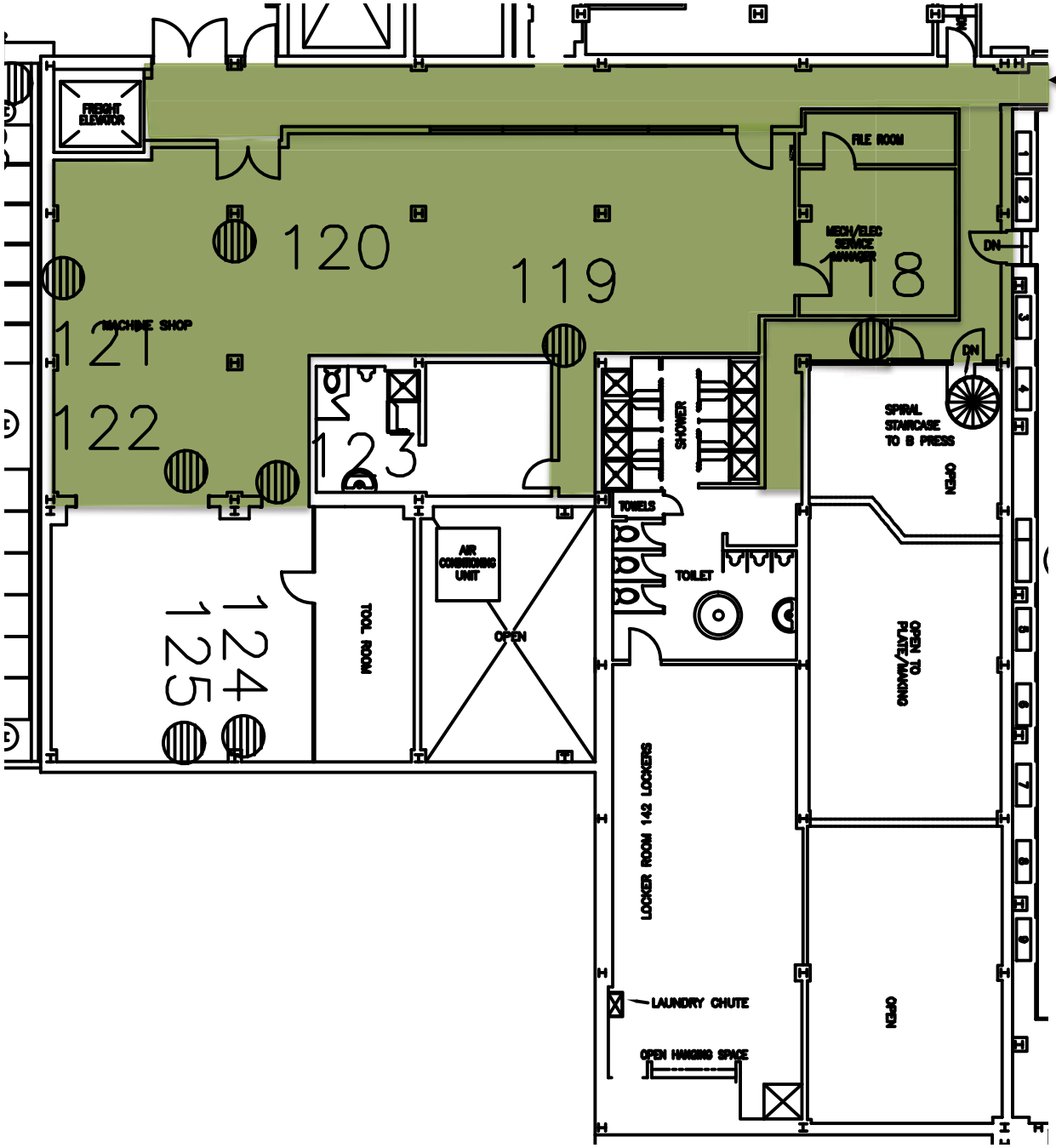


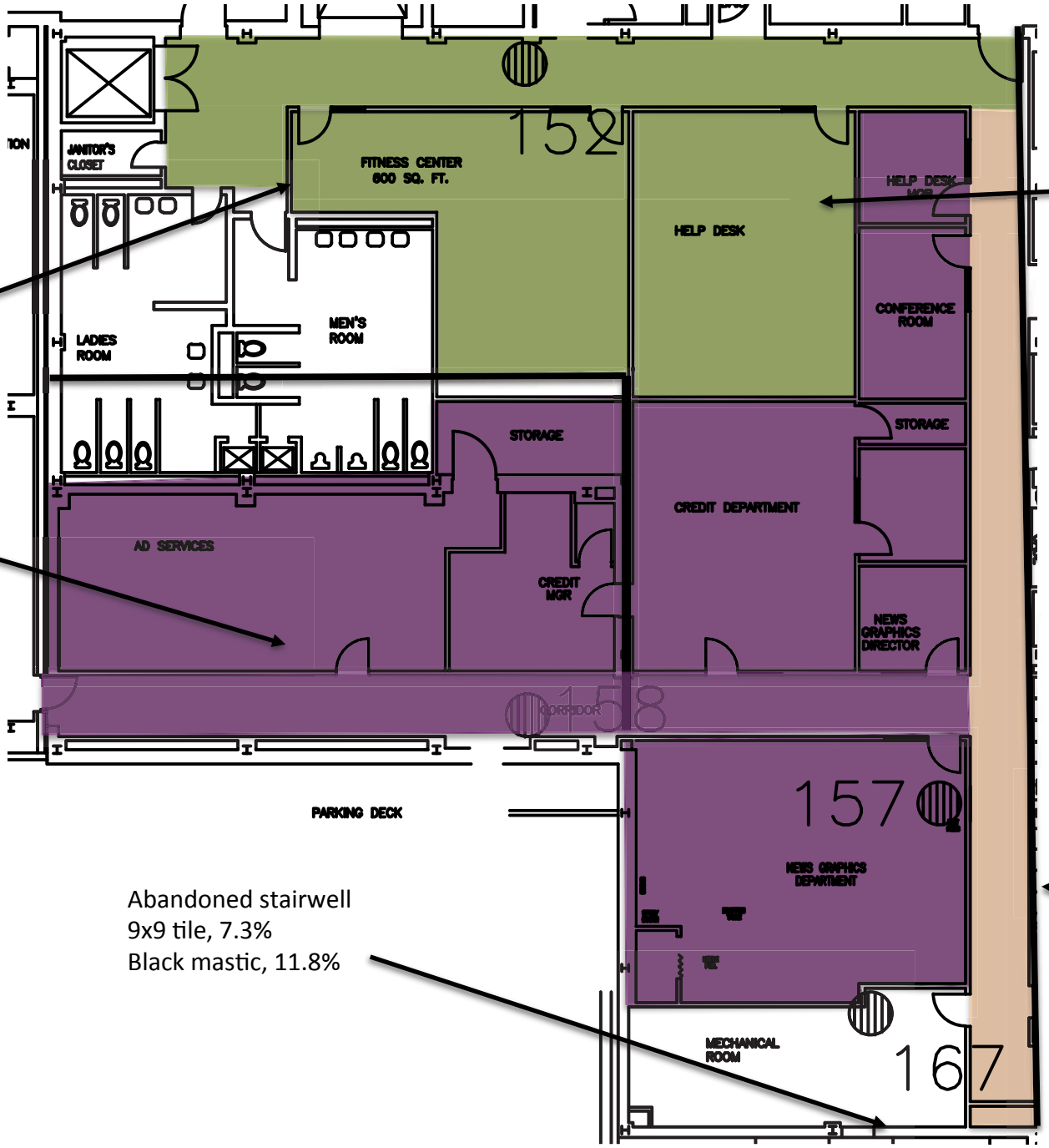
Figure 12 Building 6.
Second Floor



Two layers of tile.
Layer 2, 12x12
5%

N

Figure 13
Building 6.
Third floor



Mastic under tile, 2.3%

Tile under Carpet, 3%
Mastic under Tile, 5%

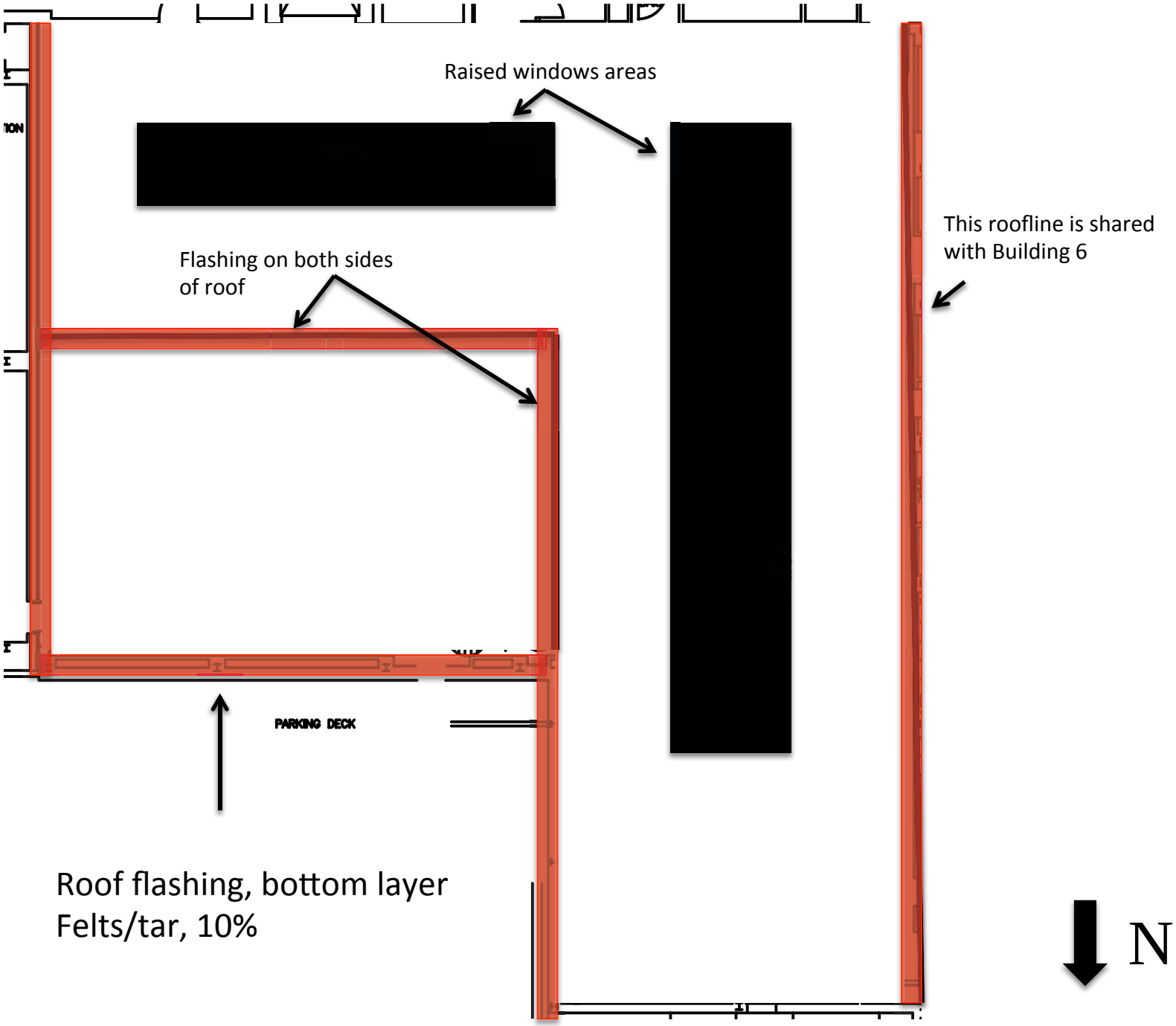
Assumed ACM positive.

Tile was ACM negative, however possible remnant mastic might remain.

Abandoned stairwell
9x9 tile, 7.3%
Black mastic, 11.8%

N

Figure 14
Building 6.
Roof



PHOTOGRAPHS

Photograph 1 – Building 1 office addition rooftop looking northeast.

Photograph 2 – Building 1 rooftop looking east-southeast. Note the penthouse (contains ACM) in background of photo.

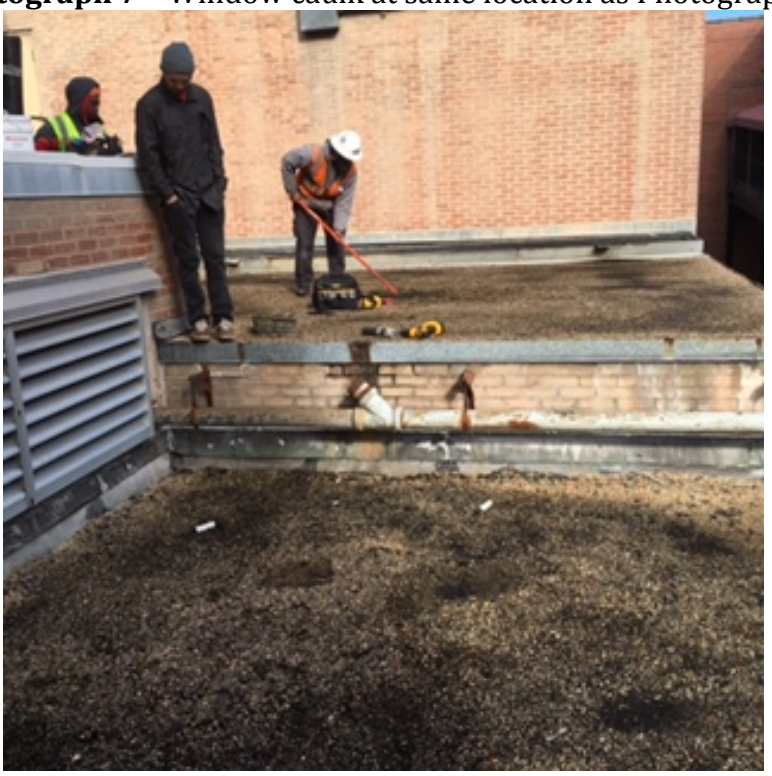
Photograph 3 – View of Building 2 rooftop, looking south-southeast.

Photograph 4 – View of Building 2, partial view of Building 6 (note the penthouse with windows), and Building 3 in the background (note the penthouses) looking south. Note the parapet wall. The flashing along this wall tested positive for ACM.

Photograph 5 –View of Building 6 rooftop and partial views of Buildings 4, 5, and 6 rooftops.

Photograph 6 – Window caulk located on south end of Building 1. Accessible on roof of Building 2.

Photograph 7 – Window caulk at same location as Photograph 5.



Photograph 8 – Built-up roofing on Mail Room in Building 1. Note the flashing to the left in the photo.

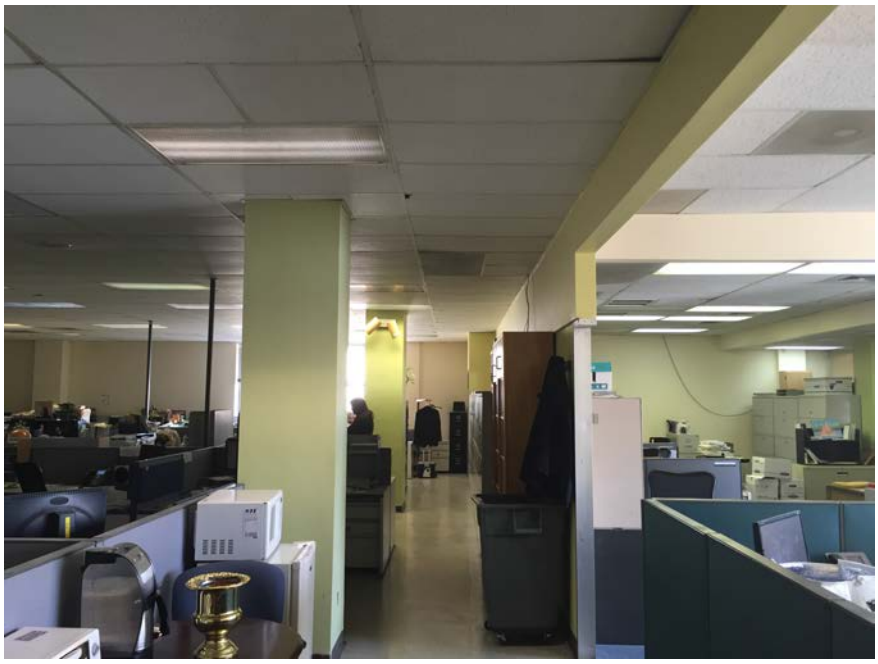
Photograph 9 – Exterior windows on second floor of Building 1: Note the abandoned staircase shown in the reflection. This staircase contains 9x9 tile and is accessible through Building 6.

Photograph 10 – Floor tiles located in penthouse staircase in Building 1.

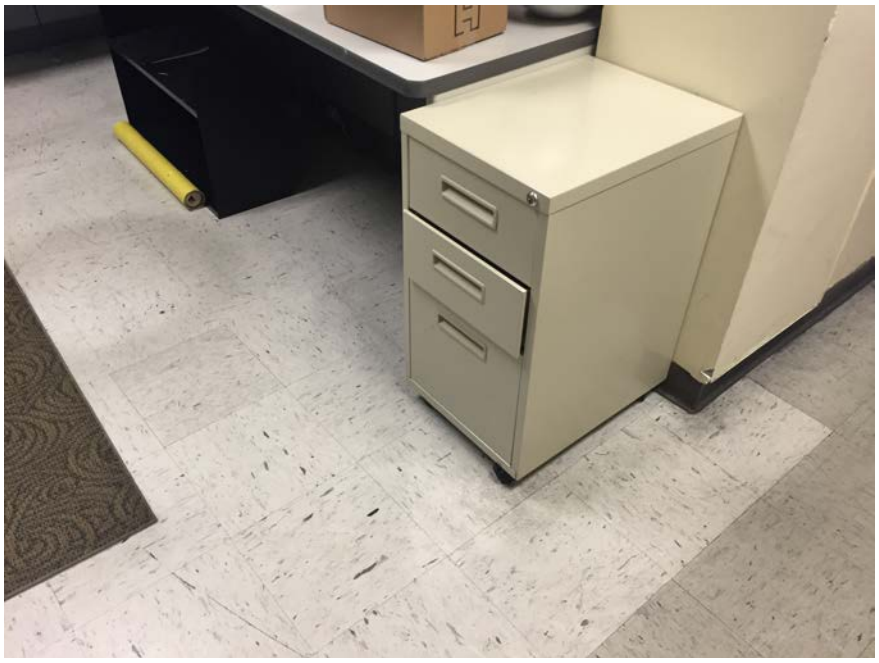
Photo 11 – Penthouse storage room on Building 1. Note the TSI wrapped roof drain.

Photograph 12 – View of 12x12 floor tiles located in Building 1 third floor staircase.

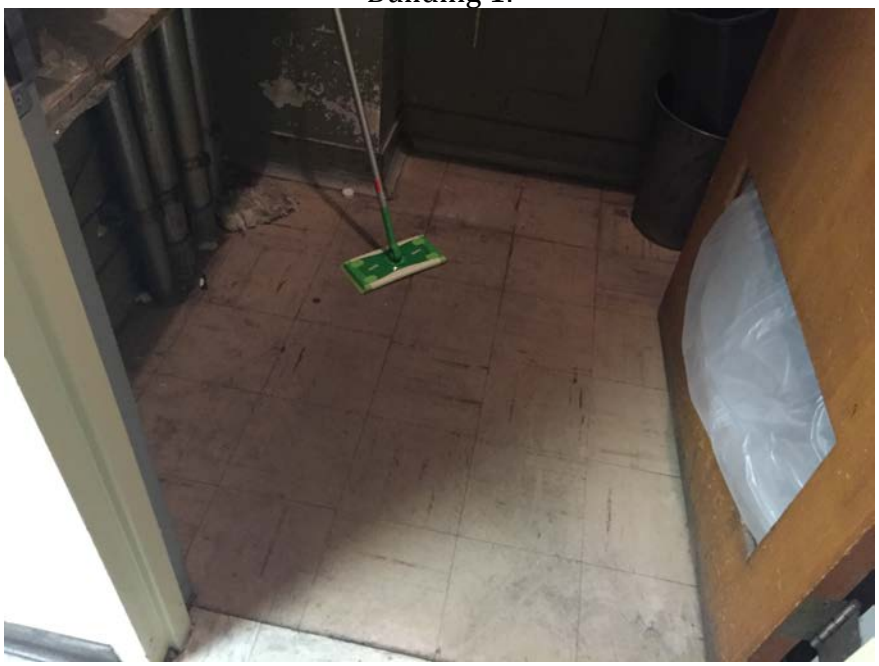
Photograph 13 – Building 1 third floor hallway between main office space and addition floor tiles.



Photograph 14 – Building 1 third floor hallway between the main office space and Building 1 office space addition (right of photo).



Photograph 15– Different style of floor tile found in office space area in on third floor of Building 1.



Photograph 16 – 9x9 floor tile in janitorial closet on third floor of Building 1.

Photograph 17 – Mud fitting on TSI located in mechanical room on third floor of Building 1.

Photograph 18 – Roof drain TSI located on third floor mechanical room of Building 1.

Photograph 19 – 12x12 tile located in office space of second floor of Building 1.

Photograph 20 – 12x12 tile located on second floor in Building 1.

Photograph 21 – Air cell with mud fittings above drop ceiling in Building 1, first floor hallway.

Photograph 22 – View of roof drain TSI on second floor mechanical room in Building 1. Note: This roof drain is thought to be the same drain from third floor and extends from the roof to the basement.

Photograph 23 – Suspected roof drain located in the west end of the basement in Building 1.

Photograph 24 – 9x9 tile found in staircase attached to Building 6.

Photograph 25 – Tar wrapped fiberglass with mud fittings (Building 1).

Photograph 26 – North exterior wall of Building 1. Note the tar based weatherproofing applied to the wall.

Photograph 27 – View of the tarpaper applied in between brick layers of the exterior wall of Building 1

Photograph 28 – Additional view of tarpaper between brick layer in photograph 27.

Photograph 29 – Amosite pipe insulation at old steam pipe at Mail room roof level.

Photograph 30 – View of Amosite insulated pipe from inside of Building 1. Note the pipe appears to have been capped.

Photograph 31 – View of the west end of Building 1. Windows caulk first floor positive ACM.

BULK ASBESTOS ANALYSIS SHEETS

EMSL Analytical, Inc.
2500 Gateway Centre Bouleva

Asbestos Bulk Building Material

Atlantic Shores Environmental Svcs., Ltd
1259A
1/21/2016 9:3
PLM

TAT: 72 Hour
Bulk

Order ID: 291600398
No Samples: 196
Due: 01/26 9:03 AM
Fax: 910-371-6652

JC 27560
-465-3900
-465-3950

Company: Atlantic Shores Environmental Svcs., Ltd	**EMSL-Bill to:** ☐ Same ☑ Different If Bill to is Different note instructions in Comments**
Street: 154 Backhoe Road	*Third Party Billing requires written authorization from third party*
City: Leland **State/Province:** NC	**Zip/Postal Code:** 28451 **Country:** United States
Report To (Name): Elliot Swain	**Telephone #:** 910-371-5980
Email Address: eswain@atlanticshoresenv.com	**Fax #:** 910-371-6652 **Purchase Order:**
Project Name/Number: 1259A	**Please Provide Results:** ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken: NC	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)

- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NY ELAP Method 198.1 (friable in NY)
- ☐ NY ELAP Method 198.6 NOB (non-friable-NY)
- ☐ OSHA ID-191 Modified
- ☐ Standard Addition Method

TEM – Bulk

- ☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
- ☐ NY ELAP Method 198.4 (TEM)
- ☐ Chatfield Protocol (semi-quantitative)
- ☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
- ☐ TEM Qualitative via Filtration Prep Technique
- ☐ TEM Qualitative via Drop Mount Prep Technique

Other

- ☐

☒ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 1/20/15

Samplers Name: Cheryl Moody **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description
1-1A	1	Pearsonage Bldg 1	Floor Tile 12x12
1-1B	1	↓	↓
1-2A	2		Floor Tile 12x12
1-2B	2		
1-3A	3		Blue Flooring under 1+2
1-3B	3		"
1-4A	4		Roofing VET on stairs
1-4B	4		"
1-5A	5		
1-5B	5		

Client Sample # (s): 1-1A / - 4B4 **Total # of Samples:** 186

Relinquished (Client): **Date:** 1/21/16 **Time:** 9:03

Received (Lab): **Date:** 1/21/16 **Time:**

Comments/Special Instructions:
BillTo: Atlantic Shores Environmental Svcs., Ltd. 154 Backhoe Road, Leland, NC, 28451, United States
Attention: Cheryl Moody Phone: 910 371-5980 Email: eswain@atlanticshoresenv.com Purchase Order

EMSL Analytical, Inc.
2500 Gateway Centre Bouleva
, NC 27560
19-465-3900
19-465-3950

Asbestos Bulk Building Material
Chain of Custody

Atlantic Shores Environmental Svcs., Ltd
1259A
1/21/2016 9:3
PLM

TAT: 72 Hour
Bulk

Order ID: 291600398
No Samples: 196
Due: 01/26 9:03 AM
Fax: 910-371-6652

Additional Pages of the Chain of Custody are only necessary if needed for additional sample ...

Sample #	HA #	Sample Location	Material Description
1-5	5	"Penthouse" Bldg 1	12x12 CT
1-6A	6	↓	Floor Ceiling
1-6B	6	↓	↓
1-6C	6	↓	↓
1-7A	7	↓	12x12 CT hockey puck mastic
1-7B	7	↓	↓
1-8A	8	3rd floor Bldg 1	plaster wall Stairwell
1-8B	8	↓	↓
1-8C	8	↓	↓
1-8D	8	Second floor Bldg 1	↓
1-8E	8	1st ~~3rd~~ floor Bldg 1	↓
1-9A	9	3rd floor Bldg 1 Stairwell (E)	12x12 black FT yellow mastic
1-9B	9	↓	↓
1-10A	10	↓	12x12 white FT under 1-9A-9B black mastic only
1-10B	10	↓	↓
1-11A	11	3rd Floor Bldg 1	12x12 FT white w/ gray streak black mastic
1-11B	11	↓	↓
1-11C	11	↓	Top layer of the black see 14A
1-12A	12	↓	12x12 FT patch
1-12B	12	↓	↓ Top layer at the black see 14A
1-13A	13	↓	9x9 tile closet
1-14A	14	↓	tile under 11C black mastic
1-14B	14	↓	Tile under 12B black mastic
1-14C	14	↓	Tile under 11A black mastic

Comments/Special Instructions
Bill To: Atlantic Shores Environmental Svcs., Ltd. 154 Backhoe Road, Lolanc, NC 28451 United States
Attention: Cheryl Moody Phone: 910 371 5980 Email: cswain@atlanticshoresenv.com Purchase Order:

Page 2 of 10 pages

EMSL Analytical, Inc.
2500 Gateway Centre Bouleva
le, NC 27560
919-465-3900
919-465-3950

Asbestos Bulk Building Material

Atlantic Shores Environmental Svcs., Ltd
1259A
1/21/2016 9:3
PLM

TAT: 72 Hour
Bulk

Order ID: 291600398
No Samples: 196
Due: 01/26 9:03 AM
Fax: 910-371-6652

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
1-15A	15	3rd Floor Bldg 1	2x4 CT
1-15B	15	↓	↓
1-15C	15	↓	↓
1-15D	15	2nd Floor Bldg 1	↓
1-15E	15	1st Floor Bldg 1	↓
1-16A	16	3rd Floor Bldg 1 1955	Drywall/joint compound
1-16B	16	↓	↓
1-16C	16	↓	↓
1-16D	16	2nd Floor Bldg 1	↓
1-16E	16	1st Floor Bldg 1 ↓	↓
1-17A	17	3rd Floor Bldg 1	9x9 FT black mastic
1-17B	17	"	"
1-18A	18	3rd Floor Bldg 1 ~~1955~~ library addition	library addition joint compound
1-18B	18	↓	↓
1-18C	18	↓	↓
1-18D	18	2nd Floor Bldg 1	↓
1-18E	18	1st floor Bldg 1 ↓	↓
1-19A	19	3rd floor Mechanical Rm Bldg 1	Pipe wrap + TSI
1-19B	19	Rooftop Rm	↓
1-19C	19	3rd Floor Mechanical Rm	↓
1-20A	20	3rd Floor library addition	floor
1-20B	20	↓	↓
1-20C	20	↓	↓
1-20D	20	2nd floor library addition ↓	↓

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Asbestos Bulk Building Material

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PLM

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Bulk

Order ID: 291600398
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Sample #	HA #	Sample Location	Material Description	
1-21A	21	3rd Floor Mech Room Bldg 1	Tar wrap on Fiberglass Pipe	
1-21B	21	"		
1-21C	21	2nd Floor above Bath Bldg 1	↓	
1-22A	22	3rd Floor Bld 1 Mech Rm	Mud fitting	
1-22B	22	3rd floor hall above ceiling	"	
1-23A	23	2nd Floor bldg 1 ~~12x12~~ Main bldg	12x12 FT	
1-23B	23	"	"	
1-24A	24	"	Tile under #1-23	
1-24B	24	"	"	
1-25A	25	"	Tile under # 24	
1-25B	25	"		
1-26A	26	2nd Floor Bldg 1 Main bldg	Gray 12x12 patch	
1-26B	26	" "	"	
1-27A	27	" "	Small patch	
1-28A	28	" Hall	12x12 FT Yellow mastic	
1-28B	28	" "	"	
1-29A	29	" "	Tile below 1-28	Black mastic
1-29B	29	" "	" "	
1-30A	30	" "	Tile below # 1-29	black mastic
1-30B	30	" "	"	
1-31A	31	2nd Floor Bldg 1 South Stairwell	12x12 Tile	
1-31B	31	"	"	
1-32A	32	"	Tile under #1-31	
1-32B	32	"	"	

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Sample #	HA #	Sample Location	Material Description
1-33A	33	2nd Floor Bldg E Stairwell	Tall VCT on Stairs
1-33B	33	"	"
1-34A	34	1st floor main bldg lobby	Red 12x12 tile
1-34B	34		"
1-35A	35		Green 12x12 Tile
1-35B	35		"
1-36A	36		Black 12x12 Tile
1-36B	36		"
1-37A	37	Floor tile in hall (2nd layer)	Tile under 1-39
1-37B	37	"	"
1-38A	38	1st floor hallway closet	Tile 9x9
1-38B	38	and 3rd layer under hall	Tile under 1-37
1-39A	39	DK grey 1st floor hall Main bldg	12x12 FT in hall
1-39B	39	"	"
1-40A	40	Lobby	Red floor tile - under carpet
1-40B	40	"	"
1-41A	41	1st Floor above hallway closet water wrapped TSI	Mud
~~1-41B~~			
1-42A	42	Behind office 1st floor Main bldg	Tile under carpet
1-42B	42	"	"
1-43A	43	"	Tile under #1-42
1-43B	43	"	"
1-44B	40	Photo Developing	Leveling compound

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Sample #	HA #	Sample Location	Material Description
1-45A	45	1st Floor above & bathroom main section	air cell TSI
1-45B	45	" above hall	"
1-45C	45	" above ceiling in office	"
1-46A	46	Linen Room 1st floor 1655	green 12x12 FT
1-46B	46		"
1-47A	47		blue 12x12 FT
1-47B	47		"
1-48A	48		2nd layer under 1-47
1-48B	48		"
1-49A	49		3rd layer under 1-49
1-49B	49		"
150A	50		4th layer - under 1-49
1-50B	50		"
1-51A	51	1st FLR, FT, UNDER CARPET	1st LAYER, FT
1-51B	51	1st FLR, FT, UNDER CARPET,	2nd LAYER UNDER ~~1-51A~~
152A	52	1st FLR, FT, HALL IN CUBES, 1st Layer	1st LAYER FT
1-52B	52	1st FLR, FT, UNDER CARPET	FT
1-53A	53	1st FLR, FT, HALL IN CUBES	FT
1-53B	53	1st FLR, FT, UNDER CARPET	FT
1-54A	54	1st FLR, OLD PHOTO LAB.	12x12 BLUE FT
1-54B	54	1st FLR, OLD PHOTO LAB	" "
1-55A	55	1st FLR, OLD BIOLOGY LAB LEVELING COMP. & DRAIN	LEVELING COMPOUND, WHT/GRAY
1-56A	56	1st FLR, PHOTO STUDIO.	12x12 FT, BLK
1-56B	56	1st FLR, PHOTO STUDIO	" "

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Sample #	HA #	Sample Location	Material Description
1-57A		1ST FLR, STUDIO BLDG, 1	12X12 FT, WHT
1-57B		1ST FLR STUDIO	" "
1-58A		1ST FLR, STUDIO AT DOOR UNDER CARPET	" "
1-58B		1ST FLR, STUDIO AT DOOR UNDER CARPET	" "
1-59		1ST FLR, UNDER CARPET, PATCH AREA?	12X12 FT
1-60A		2ND FLR, BLDG, 1, LIBRARY ADDITION	FT - W BLK MASTIC
1-60B		2ND FLR, BLDG 1, LIBRARY ADDITION 2ND LAYER - BOTTOM	FT
1-61A		2ND FLR, BLDG, 1	FT
1-61B		2ND FLR, BLDG, 1,	FT

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Sample #	HA #	Sample Location	Material Description
1-R1a		BUILDING 1, ROOF, BOTTOM LAYER	~~VAPOR BARRIER~~ FELTS / TAR
1-R1b		BLDG 1, ROOF, FELTS ON INSULATION BOARD	FELTS / TAR
1-R1c		BLDG, 1, ROOF, TAR AT BOTT OF INSULATION BOARD	FELTS / TAR
1-R1d		BLDG. 1 ROOF, PEARLITE INSULATION	INSULATION
1-R1e		BLDG, 1, ROOF, TOP LAYER	FELTS / TAR
1-R2a		BLDG, 1, ROOF, FLASHING, TOP	FELTS / TAR
1-R2b		BLDG, 1, ROOF, FLASHING BOTTOM LAYER	FELTS / TAR
1-R3a		BLDG, 1, ROOF, FLASHING, TOP	FELTS / TAR
1-R3b		BLDG. 1, ROOF, FLASHING BOTTOM LAYER	FELTS / TAR
1-R4a		BLDG. 1, ROOF, BOTTOM LAYER	FELTS / TAR
1-R4b		BLDG, 1, ROOF, FELTS ON FOAM INSULATION	FELTS / TAR
1-R4c		BLDG, 1, ROOF, PEARLITE INSULATION	INSULATION
1-R4d		BLDG. 1, ROOF, TOP LAYER	FELTS / TAR
1-R5a		BLDG 1, ROOF, BOTTOM LAYER	FELTS / TAR
1-R5b		BLDG. 1 ROOF, BOTT FELT ON INS	FELTS / TAR
1-R5c		BLDG. 1 ROOF, TOP FELT ON INS	FELTS / TAR
1-R5d		BLDG 1, ROOF, PEARLITE INSULATION	INSULATION
1-R5e		BLDG. 1. ROOF BOTTOM LAYER	TAR/FELTS
2-R1		BLDG. 2, ROOF, WINDOW CAULK	GRAY/WHT
2-R2		BLDG. 2, ROOF, WINDOW CAULK	GRAY/WHT
2-R3		BLDG, 2. ROOF, WINDOW GLAZING	GRAY/WHT
2-R4		BLDG. 2, ROOF, WINDOW GLAZING	GRAY/WHT
2-R5a		BLDG. 2, ROOF, TOP LAYER	FELTS / TAR
2-R5b		BLDG, 2, ROOF, 2nd ROOF TOP LAYER	FELTS / TAR

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Sample #	HA #	Sample Location	Material Description
2-R5C		Building 2, Roof, Bottom layer	Felt + Tar.
2-R6a		Building 2, Roof, Top layer	Felt + Tar.
2-R6b		Building 2, Roof, Pearlite	Pearlite insulation.
2-R6c		Building 2, Roof, top of foam	top of foam layer
2-R6d		Building 2, Bottom of deck	bottom of deck layer.
2-R7		Building 2, Flashing	Flashing
2-R8		Building 2, Flashing	Flashing
3-R1a		Building 3, Bottom-deck	Tar, bottom of deck
3-R1b		Building 3, top insul	Top insulation
3-R1c		Building 3, insulation	Pearlite, Insul
3-R1d		Building 3, Top	Tar, -Top
3-R2a		Building 3, Roof bottom	Tar
3-R2b		Building 3, Roof top insul	insulation
3-R2c		Building 3, Roof, insulation	Pearlite
3-R2d		Building 3, Roof, bottom	Tar, at deck.
3-R3a		Building 3, Roof, flashing	flashing
3-R3b		Building 3, Roof, flashing	flashing
3-R4a		Building 3, Roof flashing	flashing
3-R4b		Building 3, roof flashing	flashing
3-R5		Building 3, air handler, storage building	Spray-on fireproofing
3-R6		Building 3, air handler / storage building	Spray on fireproofing
4-R1		Building 4, roof, Bottom, rubber roof	Tar at deck
4-R2		Building 4, roof, Bottom, rubber roof	Tar at deck
4-R3		Building 4, roof, air handler building	Spray-on fireproofing

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Sample #	HA #	Sample Location	Material Description	
6-R1a		BLDG. 6. ROOF.	FELTS / TAR	
6-R3a		BLDG 6. ROOF. FLASHING. TOP LAYER	FELTS / TAR	
6-R3b		BLDG. 6. ROOF. FLASHING - BOTT. LAYER	FELTS / TAR	
6-R-4a		BLDG 6. ROOF. PENTHOUSE	FELTS / TAR	
6-R5a		BLDG. 6. ROOF. BOTTOM LAYER	FELTS / TAR	
6-R5b		BLDG. 6. ROOF. INS. FELT	FELTS / TAR	
6-R5c		BLDG. 6. ROOF. FELT ON INS.	FELTS / TAR	
6-R5d		BLDG. 6. ROOF. PERLITE	FELTS / TAR	
6-R5e		BLDG. 6. ROOF. TOP LAYER	INSULATION	
			FELTS / TAR	
4-R4		BLDG. 4. MECH. ROOM ON ROOF		
			SPRAY-ON FIREPROOFING - TAN	

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EMSL Order: 291600398
Customer ID: ATLS78
Customer PO:
Project ID:

Attention: Cheryl Moody
Atlantic Shores Environmental Svcs., Ltd
154 Backhoe Road
Leland, NC 28451

Project: 1259A

Phone: (910) 371-5980
Fax: (910) 371-6652
Received Date: 1/21/2016 9:03 AM
Analysis Date: 1/25/2016
Collected Date: 1/20/2016

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-1A-Floor Tile *291600398-0001*	Penthouse Bldg 1 - Floor Tile 12x12 Grey/Blue Streaks, Yellow Mastic	Gray/Blue Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-1A-Mastic *291600398-0001A*	Penthouse Bldg 1 - Floor Tile 12x12 Grey/Blue Streaks, Yellow Mastic	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-1B-Floor Tile *291600398-0002*	Penthouse Bldg 1 - Floor Tile 12x12 Grey/Blue Streaks, Yellow Mastic	Gray Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-1B-Mastic *291600398-0002A*	Penthouse Bldg 1 - Floor Tile 12x12 Grey/Blue Streaks, Yellow Mastic	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-2A-Floor Tile *291600398-0003*	Penthouse Bldg 1 - Floor Tile, 12x12 Patch Grey/blue	Gray/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-2A-Mastic *291600398-0003A*	Penthouse Bldg 1 - Floor Tile, 12x12 Patch Grey/blue	Tan Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-2B-Floor Tile *291600398-0004*	Penthouse Bldg 1 - Floor Tile, 12x12 Patch Grey/blue	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-2B-Mastic *291600398-0004A*	Penthouse Bldg 1 - Floor Tile, 12x12 Patch Grey/blue	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-3A-Floor Tile *291600398-0005*	Penthouse Bldg 1 - Blue Floor Tile Under 1 & 2, Black Mastic	Blue Non-Fibrous Homogeneous	2% Cellulose	96% Non-fibrous (Other)	2% Chrysotile
1-3A-Mastic 1 *291600398-0005A*	Penthouse Bldg 1 - Blue Floor Tile Under 1 & 2, Black Mastic				Insufficient Material
1-3A-Mastic 2 *291600398-0005C*	Penthouse Bldg 1 - Blue Floor Tile Under 1 & 2, Black Mastic	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
1-3B *291600398-0006*	Penthouse Bldg 1 - Blue Floor Tile Under 1 & 2, Black Mastic				Stop Positive (Not Analyzed)
1-4A *291600398-0007*	Penthouse Bldg 1 - Rolled VCT on Stairs	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-4B *291600398-0008*	Penthouse Bldg 1 - Rolled VCT on Stairs	Gray/Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-5A *291600398-0009*	Penthouse Bldg 1	Gray/White Fibrous Homogeneous	20% Cellulose 40% Synthetic	5% Perlite 35% Non-fibrous (Other)	None Detected

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Customer ID: ATLS78
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-5B *291600398-0010*	Penthouse Bldg 1	Gray/White Fibrous Homogeneous	30% Cellulose 40% Synthetic	10% Perlite 20% Non-fibrous (Other)	None Detected
1-5C *291600398-0011*	Penthouse Bldg 1 - 12x12 CT	Tan/Beige Non-Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
1-6A-Skim Coat *291600398-0012*	Penthouse Bldg 1 - Plaster Ceiling	White Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-6A-Base Coat *291600398-0012A*	Penthouse Bldg 1 - Plaster Ceiling	Gray Fibrous Homogeneous	<1% Glass	100% Non-fibrous (Other)	None Detected
1-6B-Skim Coat *291600398-0013*	Penthouse Bldg 1 - Plaster Ceiling	White Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
1-6B-Base Coat *291600398-0013A*	Penthouse Bldg 1 - Plaster Ceiling	Gray Fibrous Homogeneous	5% Cellulose <1% Glass	95% Non-fibrous (Other)	None Detected
1-6C-Skim Coat *291600398-0014*	Penthouse Bldg 1 - Plaster Ceiling	White Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-6C-Base Coat *291600398-0014A*	Penthouse Bldg 1 - Plaster Ceiling	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-7A *291600398-0015*	Penthouse Bldg 1 - 12x12 CT, Hockey Puck Mastic	Brown/Black Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-7B *291600398-0016*	Penthouse Bldg 1 - 12x12 CT, Hockey Puck Mastic	Brown Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-8A-Skim Coat *291600398-0017*	3rd Floor, Bldg 1 - Plaster Wall, Stairwell	White Fibrous Homogeneous	<1% Cellulose 2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-8A-Base Coat *291600398-0017A*	3rd Floor, Bldg 1 - Plaster Wall, Stairwell	Gray Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8B-Skim Coat *291600398-0018*	3rd Floor, Bldg 1 - Plaster Wall, Utility Closet	Tan/Beige Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-8B-Base Coat *291600398-0018A*	3rd Floor, Bldg 1 - Plaster Wall, Utility Closet	White Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-8C-Skim Coat *291600398-0019*	3rd Floor, Bldg 1 - Plaster Wall, Former Tel Room	White Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-8C-Base Coat *291600398-0019A*	3rd Floor, Bldg 1 - Plaster Wall, Former Tel Room	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-8D-Skim Coat *291600398-0020*	2nd Floor, Bldg 1 - Plaster Wall	White Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-8D-Base Coat *291600398-0020A*	2nd Floor, Bldg 1 - Plaster Wall	Tan Fibrous Homogeneous	5% Cellulose 2% Synthetic	93% Non-fibrous (Other)	None Detected
1-8E-Skim Coat *291600398-0021*	1st Floor, Bldg 1 - Plaster Wall	White Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected

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EMSL Order: 291600398
Customer ID: ATLS78
Customer PO:
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 % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-8E-Base Coat *291600398-0021A*	1st Floor, Bldg 1 - Plaster Wall	Tan Fibrous Homogeneous	5% Cellulose 3% Synthetic	92% Non-fibrous (Other)	None Detected
1-9A-Floor Tile *291600398-0022*	3rd Floor, Bldg 1, Stairwell E - 12x12 Black FT, Yellow Mastic Only	Gray/Black Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-9A-Mastic *291600398-0022A*	3rd Floor, Bldg 1, Stairwell E - 12x12 Black FT, Yellow Mastic Only	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-9B-Floor Tile *291600398-0023*	3rd Floor, Bldg 1, Stairwell E - 12x12 Black FT, Yellow Mastic Only	Gray/Black Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-9B-Mastic *291600398-0023A*	3rd Floor, Bldg 1, Stairwell E - 12x12 Black FT, Yellow Mastic Only	Tan Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-10A-Floor Tile *291600398-0024*	3rd Floor, Bldg 1, Stairwell E - White FT Under 1-9A & 1-9B, Black Mastic Only	White Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-10A-Mastic *291600398-0024A*	3rd Floor, Bldg 1, Stairwell E - White FT Under 1-9A & 1-9B, Black Mastic Only	Brown/Black Fibrous Heterogeneous	5% Cellulose	90% Non-fibrous (Other)	5% Chrysotile
1-10B-Floor Tile *291600398-0025*	3rd Floor, Bldg 1, Stairwell E - White FT Under 1-9A & 1-9B, Black Mastic Only	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-10B-Mastic *291600398-0025A*	3rd Floor, Bldg 1, Stairwell E - White FT Under 1-9A & 1-9B, Black Mastic Only				Stop Positive (Not Analyzed)
1-11A-Floor Tile *291600398-0026*	3rd Floor, Bldg 1 - 12x12 Ft, White w/ Gray Streaks, Black Mastic	White Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
1-11A-Mastic *291600398-0026A*	3rd Floor, Bldg 1 - 12x12 Ft, White w/ Gray Streaks, Black Mastic	Black Fibrous Homogeneous	5% Cellulose	90% Non-fibrous (Other)	5% Chrysotile
1-11B *291600398-0027*	3rd Floor, Bldg 1 - 12x12 Ft, White w/ Gray Streaks, Black Mastic				Stop Positive (Not Analyzed)
1-11C *291600398-0028*	3rd Floor, Bldg 1 - 12x12 FT White, Top Layer				Stop Positive (Not Analyzed)
1-12A-Floor Tile *291600398-0029*	3rd Floor, Bldg 1 - 12x12 FT Patch	White Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-12A-Mastic *291600398-0029A*	3rd Floor, Bldg 1 - 12x12 FT Patch	Black Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
1-12B-Floor Tile *291600398-0030*	3rd Floor, Bldg 1 - 12x12 FT Patch, Top Layer at This Location See 14B	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-12B-Mastic *291600398-0030A*	3rd Floor, Bldg 1 - 12x12 FT Patch, Top Layer at This Location See 14B				Stop Positive (Not Analyzed)
1-13A-Floor Tile *291600398-0031*	3rd Floor, Bldg 1 - 9x9 Tile Closet	White Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
1-13A-Mastic *291600398-0031A*	3rd Floor, Bldg 1 - 9x9 Tile Closet	Black Fibrous Homogeneous	2% Cellulose	93% Non-fibrous (Other)	5% Chrysotile
1-14A-Floor Tile *291600398-0032*	3rd Floor, Bldg 1 - Tile Under 11C, Black Mastic	White Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
1-14A-Mastic *291600398-0032A*	3rd Floor, Bldg 1 - Tile Under 11C, Black Mastic	Black Fibrous Homogeneous	3% Cellulose	94% Non-fibrous (Other)	3% Chrysotile
1-14B *291600398-0033*	3rd Floor, Bldg 1 - Tile Under 12B, Black Mastic				Stop Positive (Not Analyzed)
1-14C *291600398-0034*	3rd Floor, Bldg 1 - Tile Under 11A, Black Mastic				Stop Positive (Not Analyzed)
1-15A *291600398-0035*	3rd Floor, Bldg 1 - 2x4 CT	White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
1-15B *291600398-0036*	3rd Floor, Bldg 1 - 2x4 CT	White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
1-15C *291600398-0037*	3rd Floor, Bldg 1 - 2x4 CT	White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
1-15D *291600398-0038*	2nd Floor, Bldg 1 - 2x4 CT	White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
1-15E *291600398-0039*	1st Floor, Bldg 1 - 2x4 CT	White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
1-16A *291600398-0040* *This is a composite result of wallboard, and jt. compound.*	3rd Floor, Bldg 1, 1955 - Drywall/Joint Compound	White Fibrous Homogeneous	15% Cellulose 10% Glass <1% Wollastonite	75% Non-fibrous (Other)	None Detected
1-16B *291600398-0041* *This is a composite result of wallboard, and jt. compound.*	3rd Floor, Bldg 1, 1955 - Drywall/Joint Compound	White Fibrous Homogeneous	15% Cellulose 10% Glass <1% Wollastonite	75% Non-fibrous (Other)	None Detected
1-16C *291600398-0042* *This is a composite result of wallboard, and jt. compound.*	3rd Floor, Bldg 1, 1955 - Drywall/Joint Compound	White Fibrous Homogeneous	15% Cellulose 10% Glass <1% Wollastonite	75% Non-fibrous (Other)	None Detected
1-16D *291600398-0043* *This is a composite result of wallboard, and jt. compound.*	2nd Floor, Bldg 1, 1955 - Drywall/Joint Compound	White Fibrous Homogeneous	10% Cellulose 15% Glass <1% Wollastonite	75% Non-fibrous (Other)	None Detected
1-16E *291600398-0044* *This is a composite result of wallboard, and jt. compound.*	1st Floor, Bldg 1 1955 - Drywall/Joint Compound	White Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
1-17A-Floor Tile *291600398-0045*	3rd Floor, Bldg 1 - 9x9 FT Black Mastic	White Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-17A-Mastic *291600398-0045A*	3rd Floor, Bldg 1 - 9x9 FT Black Mastic	Black Fibrous Homogeneous	2% Cellulose	93% Non-fibrous (Other)	5% Chrysotile
1-17B *291600398-0046*	3rd Floor, Bldg 1 - 9x9 FT Black Mastic				Stop Positive (Not Analyzed)
1-18A *291600398-0047* *This is a composite result of wallboard, and jt. compound.*	3rd Floor, Bldg 1, Library Addition - Joint Compound	White Fibrous Homogeneous	10% Cellulose 10% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
1-18B *291600398-0048* *This is a composite result of wallboard, and jt. compound.*	3rd Floor, Bldg 1, Library Addition - Joint Compound	White Fibrous Homogeneous	10% Cellulose 10% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
1-18C *291600398-0049* *This is a composite result of wallboard, and jt. compound.*	3rd Floor, Bldg 1, Library Addition - Joint Compound	White Fibrous Homogeneous	10% Cellulose 10% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
1-18D *291600398-0050* *This is a composite result of wallboard, and jt. compound.*	2nd Floor, Bldg 1, Library Addition - Joint Compound	White Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
1-18E *291600398-0051* *This is a composite result of wallboard, and jt. compound.*	1st Floor, Blodg 1, Library Addition - Joint Compound	White Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
1-19A *291600398-0052*	3rd Floor, Mechanical Rm, Bldg 1 - Pipe Wrap & TSI	Brown Fibrous Homogeneous	80% Cellulose	15% Non-fibrous (Other)	5% Chrysotile
1-19B *291600398-0053*	Roof Top Room - Pipe Wrap & TSI				Stop Positive (Not Analyzed)
1-19C *291600398-0054*	3rd Floor, Mechanical Room - Pipe Wrap & TSI				Stop Positive (Not Analyzed)
1-20A-Skim Coat *291600398-0055*	3rd Floor, Library Addition - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-20A-Base Coat *291600398-0055A*	3rd Floor, Library Addition - Plaster	Brown Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-20B-Skim Coat *291600398-0056*	3rd Floor, Library Addition - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-20B-Base Coat *291600398-0056A*	3rd Floor, Library Addition - Plaster	Brown Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-20C-Skim Coat *291600398-0057*	3rd Floor, Library Addition - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-20C-Base Coat *291600398-0057A*	3rd Floor, Library Addition - Plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-20D-Skim Coat *291600398-0058*	2nd Floor, Library Addition - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-20D-Base Coat *291600398-0058A*	2nd Floor, Library Addition - Plaster	Brown Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-21A *291600398-0059*	3rd Floor, Mechanical Rm, Bldg 1 - Tar Wrap on Fiberlgass TSI	Brown/Black Fibrous Homogeneous	10% Cellulose 5% Min. Wool	85% Non-fibrous (Other)	None Detected
1-21B *291600398-0060*	3rd Floor, Mechanical Rm, Bldg 1 - Tar Wrap on Fiberlgass TSI	Brown/Black Fibrous Homogeneous	15% Cellulose 5% Min. Wool	80% Non-fibrous (Other)	None Detected
1-21C *291600398-0061*	2nd Floor Above Men's Room, Bldg 1 - Tar Wrap on Fiberlgass TSI	Brown/Black/Blue Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
1-22A *291600398-0062*	3rd Floor, Bldg 1, Mech Rm - Mud Fitting	Gray/Tan Fibrous Homogeneous	3% Cellulose 25% Min. Wool 10% Glass	60% Non-fibrous (Other)	2% Chrysotile
1-22B *291600398-0063*	3rd Floor, Hall Above Ceiling - Mud Fitting				Stop Positive (Not Analyzed)
1-23A-Floor Tile *291600398-0064*	2nd Floor, Bldg 1, Main Bldg - 12x12 FT	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-23A-Mastic *291600398-0064A*	2nd Floor, Bldg 1, Main Bldg - 12x12 FT	Black Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
1-23B-Floor Tile *291600398-0065*	2nd Floor, Bldg 1, Main Bldg - 12x12 FT	Gray Fibrous Homogeneous	3% Cellulose 2% Wollastonite	95% Non-fibrous (Other)	None Detected
1-23B-Mastic *291600398-0065A*	2nd Floor, Bldg 1, Main Bldg - 12x12 FT				Stop Positive (Not Analyzed)
1-24A-Floor Tile *291600398-0066*	2nd Floor, Bldg 1, Main Bldg - Tile Under #1-23	Brown Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
1-24A-Mastic *291600398-0066A*	2nd Floor, Bldg 1, Main Bldg - Tile Under #1-23	Black Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
1-24B *291600398-0067*	2nd Floor, Bldg 1, Main Bldg - Tile Under #1-23				Stop Positive (Not Analyzed)
1-25A-Floor Tile *291600398-0068*	2nd Floor, Bldg 1, Main Bldg - Tile Under #24	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-25A-Mastic *291600398-0068A*	2nd Floor, Bldg 1, Main Bldg - Tile Under #24	Black Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
1-25B-Floor Tile *291600398-0069*	2nd Floor, Bldg 1, Main Bldg - Tile Under #24	Gray/White Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	<1% Chrysotile
1-25B-Mastic *291600398-0069A*	2nd Floor, Bldg 1, Main Bldg - Tile Under #24				Stop Positive (Not Analyzed)
1-26A-Floor Tile *291600398-0070*	2nd Floor, Bldg 1, Main Bldg - Grey 12x12 Patch	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-26A-Mastic *291600398-0070A*	2nd Floor, Bldg 1, Main Bldg - Grey 12x12 Patch	Black Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-26B-Floor Tile *291600398-0071*	2nd Floor, Bldg 1, Main Bldg - Grey 12x12 Patch	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-26B-Mastic *291600398-0071A*	2nd Floor, Bldg 1, Main Bldg - Grey 12x12 Patch	Brown/Black Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-27A-Floor Tile *291600398-0072*	2nd Floor, Bldg 1, Main Bldg - Small Patch	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-27A-Mastic *291600398-0072A*	2nd Floor, Bldg 1, Main Bldg - Small Patch	Brown/Black Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
1-28A-Floor Tile *291600398-0074*	2nd Floor, Hall, Main Bldg - 12x12 FT, Yellow Mastic	Gray/Beige Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-28A-Mastic *291600398-0074A*	2nd Floor, Hall, Main Bldg - 12x12 FT, Yellow Mastic	Yellow Fibrous Homogeneous	5% Cellulose 10% Synthetic	85% Non-fibrous (Other)	None Detected
1-28B-Floor Tile *291600398-0075*	2nd Floor, Hall, Main Bldg - 12x12 FT, Yellow Mastic	Tan/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-28B-Mastic *291600398-0075A*	2nd Floor, Hall, Main Bldg - 12x12 FT, Yellow Mastic	Brown Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-29A-Floor Tile *291600398-0076*	2nd Floor, Hall, Main Bldg - Tile Below 1-29 Black Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-29A-Mastic *291600398-0076A*	2nd Floor, Hall, Main Bldg - Tile Below 1-29 Black Mastic	Black/Beige Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
1-29B-Floor Tile *291600398-0077*	2nd Floor, Hall, Main Bldg - Tile Below 1-29 Black Mastic	Tan/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-29B-Mastic *291600398-0077A*	2nd Floor, Hall, Main Bldg - Tile Below 1-29 Black Mastic				Stop Positive (Not Analyzed)
1-30A-Floor Tile *291600398-0078*	2nd Floor, Hall, Main Bldg - Tile Below #1-29 Black Mastic	White/Black Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
1-30A-Mastic *291600398-0078A*	2nd Floor, Hall, Main Bldg - Tile Below #1-29 Black Mastic	Black Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
1-30B *291600398-0079*	2nd Floor, Hall, Main Bldg - Tile Below #1-29 Black Mastic				Stop Positive (Not Analyzed)
1-31A-Floor Tile *291600398-0080*	2nd Floor, Bldg 1, South Stairwell - 12x12 Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-31A-Mastic *291600398-0080A*	2nd Floor, Bldg 1, South Stairwell - 12x12 Tile	Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-31B-Floor Tile *291600398-0081*	2nd Floor, Bldg 1, South Stairwell - 12x12 Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-31B-Mastic *291600398-0081A*	2nd Floor, Bldg 1, South Stairwell - 12x12 Tile	Tan Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-32A-Floor Tile *291600398-0082*	2nd Floor, Bldg 1, South Stairwell - Tile Under #1-31	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-32A-Mastic *291600398-0082A*	2nd Floor, Bldg 1, South Stairwell - Tile Under #1-31	Black Fibrous Homogeneous	2% Cellulose	93% Non-fibrous (Other)	5% Chrysotile
1-32B *291600398-0083*	2nd Floor, Bldg 1, South Stairwell - Tile Under #1-31				Stop Positive (Not Analyzed)
1-33A-Floor Tile *291600398-0084*	2nd Floor, Bldg 1, E Stairwell - Roll VCT On Stairs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-33A-Mastic *291600398-0084A*	2nd Floor, Bldg 1, E Stairwell - Roll VCT On Stairs	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-33B-Floor Tile *291600398-0085*	2nd Floor, Bldg 1, E Stairwell - Roll VCT On Stairs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-33B-Mastic *291600398-0085A*	2nd Floor, Bldg 1, E Stairwell - Roll VCT On Stairs	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-34A-Floor Tile *291600398-0086*	1st Floor, Main Bldg, Lobby - Red 12x12 Tile	Red Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-34A-Mastic *291600398-0086A*	1st Floor, Main Bldg, Lobby - Red 12x12 Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-34B-Floor Tile *291600398-0087*	1st Floor, Main Bldg, Lobby - Red 12x12 Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-34B-Mastic *291600398-0087A*	1st Floor, Main Bldg, Lobby - Red 12x12 Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-35A-Floor Tile *291600398-0088*	1st Floor, Main Bldg, Lobby - Green 12x12 Tile	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-35A-Mastic *291600398-0088A*	1st Floor, Main Bldg, Lobby - Green 12x12 Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-35B-Floor Tile *291600398-0089*	1st Floor, Main Bldg, Lobby - Green 12x12 Tile	Green Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-35B-Mastic *291600398-0089A*	1st Floor, Main Bldg, Lobby - Green 12x12 Tile	Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-36A-Floor Tile *291600398-0090*	1st Floor, Main Bldg, Lobby - Black 12x12 Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-36A-Mastic *291600398-0090A*	1st Floor, Main Bldg, Lobby - Black 12x12 Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-36B-Floor Tile *291600398-0091*	1st Floor, Main Bldg, Lobby - Black 12x12 Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-36B-Mastic *291600398-0091A*	1st Floor, Main Bldg, Lobby - Black 12x12 Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-37A-Floor Tile *291600398-0092*	Floor Tile in Hall, 2nd Layer - Tile Under 1-39	Beige Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-37A-Mastic *291600398-0092A*	Floor Tile in Hall, 2nd Layer - Tile Under 1-39	Black Fibrous Homogeneous	3% Cellulose	92% Non-fibrous (Other)	5% Chrysotile
1-37B *291600398-0093*	Floor Tile in Hall, 2nd Layer - Tile Under 1-39				Stop Positive (Not Analyzed)
1-38A-Floor Tile *291600398-0094*	1st Floor, Utility Closet - Tile 9x9	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-38A-Mastic *291600398-0094A*	1st Floor, Utility Closet - Tile 9x9	Black Fibrous Homogeneous	3% Cellulose	92% Non-fibrous (Other)	5% Chrysotile
1-38B *291600398-0095*	And 3rd Layer Under Hall - Tile Under 1-37				Stop Positive (Not Analyzed)
1-39A-Floor Tile *291600398-0096*	Dk Grey, 1st Floor Hall, Main Bldg - 12x12 FT in Hall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-39A-Mastic *291600398-0096A*	Dk Grey, 1st Floor Hall, Main Bldg - 12x12 FT in Hall	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-39B-Floor Tile *291600398-0097*	Dk Grey, 1st Floor Hall, Main Bldg - 12x12 FT in Hall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-39B-Mastic *291600398-0097A*	Dk Grey, 1st Floor Hall, Main Bldg - 12x12 FT in Hall	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-40A-Leveler *291600398-0098*	Lobby - Red Floor Leveler Under Carpet	Red Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-40A-Mastic *291600398-0098A*	Lobby - Red Floor Leveler Under Carpet	Beige Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-40B-Leveler *291600398-0099*	Lobby - Red Floor Leveler Under Carpet	Red Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-40B-Mastic *291600398-0099A*	Lobby - Red Floor Leveler Under Carpet	Yellow Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-41A *291600398-0100*	1st Floor Above Utility Closet - On Tar Wrapped TSI Mud	Gray Fibrous Homogeneous	3% Cellulose 10% Glass	79% Non-fibrous (Other)	8% Chrysotile
1-42A-Floor Tile *291600398-0101*	Nurses Office, 1st Floor, Main Bldg - Tile Under Carpet	Tan/White Non-Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
1-42A-Mastic *291600398-0101A*	Nurses Office, 1st Floor, Main Bldg - Tile Under Carpet	Black/Beige Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	<1% Chrysotile
1-42B-Floor Tile *291600398-0102*	Nurses Office, 1st Floor, Main Bldg - Tile Under Carpet				Stop Positive (Not Analyzed)
1-42B-Mastic *291600398-0102A*	Nurses Office, 1st Floor, Main Bldg - Tile Under Carpet	Brown/Black Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	<1% Chrysotile
1-43A-Floor Tile *291600398-0103*	Nurses Office, 1st Floor, Main Bldg - Tile Under #1-42	White Non-Fibrous Homogeneous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile

Initial Report From: 01/25/2016 18:53:03

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-43A-Mastic *291600398-0103A*	Nurses Office, 1st Floor, Main Bldg - Tile Under #1-42	Tan/Black Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-43B *291600398-0104*	Nurses Office, 1st Floor, Main Bldg - Tile Under #1-42				Stop Positive (Not Analyzed)
1-44A-Leveler *291600398-0105*	Photo Developing - Leveling Compound	Red Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-44A-Mastic *291600398-0105A*	Photo Developing - Leveling Compound	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-45A *291600398-0106*	1st Floor Above Men's Bathroom, Main Section - Air Cell TSI	White Fibrous Homogeneous	10% Cellulose	50% Non-fibrous (Other)	40% Chrysotile
1-45B *291600398-0107*	1st Floor Hall, Main Section - Air Cell TSI				Stop Positive (Not Analyzed)
1-45C *291600398-0108*	Lunch Room, 1st Floor, 1955 - Air Cell TSI				Stop Positive (Not Analyzed)
1-46A-Floor Tile *291600398-0109*	Lunch Room, 1st Floor, 1955 - Green 12x12 FT	Green Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-46A-Mastic *291600398-0109A*	Lunch Room, 1st Floor, 1955 - Green 12x12 FT	Beige Non-Fibrous Homogeneous	2% Cellulose <1% Synthetic	98% Non-fibrous (Other)	None Detected
1-46B-Floor Tile *291600398-0110*	Lunch Room, 1st Floor, 1955 - Green 12x12 FT	Green Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-46B-Mastic *291600398-0110A*	Lunch Room, 1st Floor, 1955 - Green 12x12 FT	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-47A-Floor Tile *291600398-0111*	Lunch Room, 1st Floor, 1955 - Blue 12x12 FT	Blue Non-Fibrous Homogeneous	<1% Wollastonite	100% Non-fibrous (Other)	None Detected
1-47A-Mastic *291600398-0111A*	Lunch Room, 1st Floor, 1955 - Blue 12x12 FT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-47B-Floor Tile *291600398-0112*	Lunch Room, 1st Floor, 1955 - Blue 12x12 FT	Blue Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-47B-Mastic *291600398-0112A*	Lunch Room, 1st Floor, 1955 - Blue 12x12 FT	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-48A-Floor Tile *291600398-0113*	Lunch Room, 1st Floor, 1955 - 2nd Layer Under 1-47	White Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
1-48A-Mastic *291600398-0113A*	Lunch Room, 1st Floor, 1955 - 2nd Layer Under 1-47	Black/Beige Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
1-48B-Floor Tile *291600398-0114*	Lunch Room, 1st Floor, 1955 - 2nd Layer Under 1-47	White Fibrous Homogeneous		<1% Quartz 100% Non-fibrous (Other)	None Detected
1-48B-Mastic *291600398-0114A*	Lunch Room, 1st Floor, 1955 - 2nd Layer Under 1-47				Stop Positive (Not Analyzed)

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-49A-Floor Tile *291600398-0115*	Lunch Room, 1st Floor, 1955 - 3rd Layer Under 1-48	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-49A-Mastic *291600398-0115A*	Lunch Room, 1st Floor, 1955 - 3rd Layer Under 1-48	Brown/Black Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-49B-Floor Tile *291600398-0116*	Lunch Room, 1st Floor, 1955 - 3rd Layer Under 1-48	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-49B-Mastic *291600398-0116A*	Lunch Room, 1st Floor, 1955 - 3rd Layer Under 1-48				Stop Positive (Not Analyzed)
1-50A-Floor Tile *291600398-0117*	Lunch Room, 1st Floor, 1955 - 4th Layer Under 1-49	Beige Non-Fibrous Homogeneous	5% Cellulose	90% Non-fibrous (Other)	5% Chrysotile
1-50A-Mastic *291600398-0117A*	Lunch Room, 1st Floor, 1955 - 4th Layer Under 1-49	Brown/Black Fibrous Heterogeneous	10% Cellulose	82% Non-fibrous (Other)	8% Chrysotile
1-50B *291600398-0118*	Lunch Room, 1st Floor, 1955 - 4th Layer Under 1-49				Stop Positive (Not Analyzed)
1-51A-Floor Tile *291600398-0119*	1st Floor, FT Under Carpet - 1st Layer FT	White Fibrous Homogeneous	3% Cellulose	95% Non-fibrous (Other)	2% Chrysotile
1-51A-Mastic *291600398-0119A*	1st Floor, FT Under Carpet - 1st Layer FT	Brown/Black Fibrous Homogeneous	5% Cellulose	93% Non-fibrous (Other)	2% Chrysotile
1-51B *291600398-0120*	1st Floor, FT Under Carpet - 2nd Layer Under				Stop Positive (Not Analyzed)
1-52A-Floor Tile *291600398-0121*	1st Floor FT, Hall in Cubes, 1st Layer - 1st Layer FT	Tan/Beige Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	<1% Chrysotile
1-52A-Mastic *291600398-0121A*	1st Floor FT, Hall in Cubes, 1st Layer - 1st Layer FT	Brown/Black Non-Fibrous Heterogeneous	8% Cellulose	89% Non-fibrous (Other)	3% Chrysotile
1-52B-Floor Tile *291600398-0122*	1st Floor, FT Under Carpet - FT	Tan/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	<1% Chrysotile
1-52B-Mastic *291600398-0122A*	1st Floor, FT Under Carpet - FT				Stop Positive (Not Analyzed)
1-53A-Floor Tile *291600398-0123*	1st Floor, FT Hall in Cubes - FT	Beige Fibrous Heterogeneous	3% Cellulose	92% Non-fibrous (Other)	5% Chrysotile
1-53A-Mastic *291600398-0123A*	1st Floor, FT Hall in Cubes - FT	Brown/Black Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
1-53B *291600398-0124*	1st Floor, FT Under Carpet - FT				Stop Positive (Not Analyzed)
1-54A-Floor Tile *291600398-0125*	1st Floor, Old Photo Lab - 12x12 Blue FT	Blue Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-54A-Mastic *291600398-0125A*	1st Floor, Old Photo Lab - 12x12 Blue FT	Tan/Black Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-54B-Floor Tile *291600398-0126*	1st Floor, Old Photo Lab - 12x12 Blue FT	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-54B-Mastic *291600398-0126A*	1st Floor, Old Photo Lab - 12x12 Blue FT	Tan Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-55 *291600398-0127*	1st Floor, Old Photo Lab, Leveling Comp @ Drain - Leveling Compound, White/Gray	White/Beige Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-56A-Floor Tile *291600398-0128*	1st Floor, Photo Studio - 12x12 FT Blk	Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-56A-Mastic *291600398-0128A*	1st Floor, Photo Studio - 12x12 FT Blk	Brown/Black Fibrous Heterogeneous	52% Cellulose	43% Non-fibrous (Other)	5% Chrysotile
1-56B-Floor Tile *291600398-0129*	1st Floor, Photo Studio - 12x12 FT Blk	Brown/Black Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-56B-Mastic *291600398-0129A*	1st Floor, Photo Studio - 12x12 FT Blk				Stop Positive (Not Analyzed)
1-57A-Floor Tile *291600398-0130*	1st Floor, Studio, Bldg 1 - 12x12 FT, White	Beige Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-57A-Mastic *291600398-0130A*	1st Floor, Studio, Bldg 1 - 12x12 FT, White	Brown/Black Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	<1% Chrysotile
1-57B-Floor Tile *291600398-0131*	1st Floor, Studio - 12x12 FT, White	White/Beige Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-57B-Mastic *291600398-0131A*	1st Floor, Studio - 12x12 FT, White	Brown/Black Fibrous Homogeneous	5% Cellulose	92% Non-fibrous (Other)	3% Chrysotile
1-58A-Floor Tile *291600398-0132*	1st Floor, Studio At Door Under Carpet - 12x12 FT, White	Beige Fibrous Heterogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
1-58A-Mastic *291600398-0132A*	1st Floor, Studio At Door Under Carpet - 12x12 FT, White	Brown/Black Fibrous Heterogeneous	20% Cellulose 5% Synthetic	75% Non-fibrous (Other)	None Detected
1-58B-Floor Tile *291600398-0133*	1st Floor, Studio, At Door Under Carpet - 12x12 FT, White				Stop Positive (Not Analyzed)
1-58B-Mastic *291600398-0133A*	1st Floor, Studio, At Door Under Carpet - 12x12 FT, White	Brown/Black Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-59-Floor Tile *291600398-0134*	1st Floor, Under Carpet, Patch Area - 12x12 FT	Gray/Black Fibrous Homogeneous	3% Cellulose	95% Non-fibrous (Other)	2% Chrysotile
1-59-Mastic *291600398-0134A*	1st Floor, Under Carpet, Patch Area - 12x12 FT	Brown/Black Fibrous Heterogeneous		92% Non-fibrous (Other)	8% Chrysotile
1-60A-Floor Tile *291600398-0135*	2nd Floor, Bldg 1, Library Addition - FT w/ Black Mastic	White Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-60A-Mastic *291600398-0135A*	2nd Floor, Bldg 1, Library Addition - FT w/ Black Mastic	Brown/Black Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-60B-Floor Tile *291600398-0136*	2nd Floor, Bldg 1, Library Addition, 2nd Layer Bot - FT	White Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-60B-Mastic *291600398-0136A*	2nd Floor, Bldg 1, Library Addition, 2nd Layer Bot - FT	Brown/Black Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
1-61A-Floor Tile *291600398-0137*	2nd Floor, Bldg 1 - FT	Tan/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	<1% Chrysotile
1-61A-Mastic *291600398-0137A*	2nd Floor, Bldg 1 - FT	Brown/Black Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	<1% Chrysotile
1-61B-Floor Tile *291600398-0138*	2nd Floor, Bldg 1 - FT	White/Beige Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	<1% Chrysotile
1-61B-Mastic *291600398-0138A*	2nd Floor, Bldg 1 - FT	Brown/Black Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	<1% Chrysotile
1-R1a *291600398-0139*	Bldg 1, Roof, Bottom Layer - Felt/Tar	Black Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-R1b *291600398-0140*	Bldg 1, Roof, Felts on Insukation Board - Felts/Tar	Black Fibrous Homogeneous	30% Cellulose 35% Glass	35% Non-fibrous (Other)	None Detected
1-R1c *291600398-0141*	Bldg 1, Roof, Tar at Bottom of Insulation Board - Felts/Tar	Black Fibrous Homogeneous	45% Cellulose 30% Glass	25% Non-fibrous (Other)	None Detected
1-R1d *291600398-0142*	Bldg 1, Roof, Pearlite Insulation - Insulation	Black Fibrous Homogeneous	70% Cellulose	10% Perlite 20% Non-fibrous (Other)	None Detected
1-R1e *291600398-0143*	Bldg 1, Roof, Top Layer - Felts/Tar	Black Fibrous Homogeneous	3% Cellulose 5% Glass	92% Non-fibrous (Other)	None Detected
1-R2a *291600398-0144*	Bldg 1, Roof, Flashing, Top - Felts/Tar	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1-R2b *291600398-0145*	Bldg 1, Roof, Flashing, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1-R3a *291600398-0146*	Bldg 1, Roof, Flashing, Top - Felts/Tar	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1-R3b *291600398-0147*	Bldg 1, Roof, Flashing, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1-R4a *291600398-0148*	Bldg 1, Roof, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	20% Cellulose 25% Glass	55% Non-fibrous (Other)	None Detected
1-R4b *291600398-0149*	Bldg 1, Roof, Felts on Foam Insulation - Felts/Tar	Black Fibrous Homogeneous	20% Cellulose 25% Glass	55% Non-fibrous (Other)	None Detected
1-R4c *291600398-0150*	Bldg 1, Roof, Pearlite Insulation - Insulation	Brown Fibrous Homogeneous	70% Cellulose	10% Perlite 20% Non-fibrous (Other)	None Detected
1-R4d *291600398-0151*	Bldg 1, Roof, Top Layer - Felts/Tar	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-R5a *291600398-0152*	Bldg 1, Roof, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	3% Cellulose 3% Glass	94% Non-fibrous (Other)	None Detected
1-R5b *291600398-0153*	Bldg 1, Roof, Bottom Felt on Ins. - Felts/Tar	Black Fibrous Homogeneous	40% Cellulose 30% Glass	30% Non-fibrous (Other)	None Detected
1-R5c *291600398-0154*	Bldg 1, Roof, Top Felt on Ins. - Felts/Tar	Black Fibrous Homogeneous	5% Cellulose 15% Glass	80% Non-fibrous (Other)	None Detected
1-R5d *291600398-0155*	Bldg 1, Roof, Pearlite Insulation - Insulation	Brown Fibrous Homogeneous	70% Cellulose	10% Perlite 20% Non-fibrous (Other)	None Detected
1-R5e *291600398-0156*	Bldg 1, Roof, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	3% Cellulose 5% Glass	92% Non-fibrous (Other)	None Detected
2-R1 *291600398-0157*	Bldg 2, Roof, Window Caulk - Gray/White	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
2-R2 *291600398-0158*	Bldg 2, Roof, Window Caulk - Gray/White				Stop Positive (Not Analyzed)
2-R3 *291600398-0159*	Bldg 2, Roof, Window Glazing - Gray/White	Gray/White Fibrous Homogeneous	<1% Cellulose	97% Non-fibrous (Other)	3% Chrysotile
2-R4 *291600398-0160*	Bldg 2, Roof, Window Glazing - Gray/White				Stop Positive (Not Analyzed)
2-R5a *291600398-0161*	Bldg 2, Roof, Top Layer - Felts/Tar	Black Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
2-R5b *291600398-0162*	Bldg 2, Roof, 2nd Roof Top Layer - Felts/Tar	Black Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
2-R5c *291600398-0163*	Bldg 2, Roof, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
2-R6a *291600398-0164*	Bldg 2, Roof, Top Layer - Felts/Tar	Black Fibrous Homogeneous	10% Cellulose 15% Glass	75% Non-fibrous (Other)	None Detected
2-R6b *291600398-0165*	Bldg 2, Roof, Pearlite - Pearlite Insulation	Brown Fibrous Homogeneous	80% Cellulose	10% Perlite 10% Non-fibrous (Other)	None Detected
2-R6c *291600398-0166*	Bldg 2, Roof, Top of Foam - Top of Foam Layer	Black Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
2-R6d *291600398-0167*	Bldg 2, Bottom at Deck - Bottom of Deck Layer	Black Fibrous Homogeneous	20% Cellulose 15% Glass	65% Non-fibrous (Other)	None Detected
2-R7 *291600398-0168*	Bldg 2, Flashing - Flashing	Black Fibrous Homogeneous	25% Cellulose 20% Glass	50% Non-fibrous (Other)	5% Chrysotile
2-R8 *291600398-0169*	Bldg 2, Flashing - Flashing				Stop Positive (Not Analyzed)
3-R1a *291600398-0170*	Bldg 3, Bottom -Deck - Tar, Bottom at Deck	Black Fibrous Homogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-R1b *291600398-0171*	Bldg 3, Top Insul - Top Insulation	Black Fibrous Homogeneous	8% Cellulose 10% Glass	82% Non-fibrous (Other)	None Detected
3-R1c *291600398-0172*	Bldg 3, Insulation - Pearlite Insul	Brown Fibrous Homogeneous	80% Cellulose	10% Perlite 10% Non-fibrous (Other)	None Detected
3-R1d *291600398-0173*	Bldg 3, Top - Tar-Top	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
3-R2a *291600398-0174*	Bldg 3, Roof Bottom - Tar	Black Fibrous Homogeneous	2% Cellulose 2% Glass	96% Non-fibrous (Other)	None Detected
3-R2b *291600398-0175*	Bldg 3, Roof Top Insul - Insulation	Black Fibrous Homogeneous	30% Cellulose 25% Glass	45% Non-fibrous (Other)	None Detected
3-R2c *291600398-0176*	Bldg 3, Roof Insulation - Pearlite	Brown Fibrous Homogeneous	80% Cellulose	10% Perlite 10% Non-fibrous (Other)	None Detected
3-R2d *291600398-0177*	Bldg 3, Roof, Bottom - Tar, at Deck	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
3-R3a *291600398-0178*	Bldg 3, Roof, Flashing - Flashing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
3-R3b *291600398-0179*	Bldg 3, Roof, Flashing - Flashing	Black Fibrous Homogeneous	10% Cellulose 10% Glass	72% Non-fibrous (Other)	8% Chrysotile
3-R4a *291600398-0180*	Bldg 3, Roof, Flashing - Flashing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
3-R4b *291600398-0181*	Bldg 3, Roof, Flashing - Flashing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
3-R5 *291600398-0182*	Bldg 3, Air Handler/Storage Bldg - Spray-On Fireproofing	Beige Fibrous Homogeneous	15% Cellulose 15% Glass	70% Non-fibrous (Other)	None Detected
3-R6 *291600398-0183*	Bldg 3, Air Handler/Storage Bldg - Spray-On Fireproofing	Beige Fibrous Homogeneous	15% Cellulose 15% Glass	70% Non-fibrous (Other)	None Detected
4-R1 *291600398-0184*	Bldg 4, Roof, Bottom, Rubber Roof - Tar at Deck	Tan/Black Fibrous Homogeneous	3% Cellulose 10% Glass	87% Non-fibrous (Other)	None Detected
4-R2 *291600398-0185*	Bldg 4, Roof, Bottom, Rubber Roof - Tar at Deck	Tan/Black Fibrous Homogeneous	8% Cellulose 8% Glass	84% Non-fibrous (Other)	None Detected
4-R3 *291600398-0186*	Bldg 4, Roof, Air Handler to Bldg - Spray-On Fireproofing	Beige Fibrous Homogeneous	15% Cellulose 15% Glass	70% Non-fibrous (Other)	None Detected
4-R4 *291600398-0187*	Bldg 4, Mech Room, on Roof - Spray-On Fireproofing	Beige Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
6-R1a *291600398-0188*	Bldg 6, Roof - Felts/Tar	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
6-R3a *291600398-0189*	Bldg 6, Roof, Flashing, Top Layer - Felts/Tar	Tan/Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Initial Report From: 01/25/2016 18:53:03

EMSL Analytical, Inc.
2500 Gateway Centre Blvd., Suite 600 Morrisville, NC
Tel/Fax: (919) 465-3900 / (919) 465-3950
http://www.EMSL.com / raleighlab@emsl.com

EMSL Order: 291600398
Customer ID: ATLS78
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
6-R3b *291600398-0190*	Bldg 6, Roof, Flashing, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
6-R4a *291600398-0191*	Bldg 6, Roof, Penthouse - Felts/Tar	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
6-R5a *291600398-0192*	Bldg 6, Roof, Bottom Layer - Felts/Tar	Black Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected
6-R5b *291600398-0193*	Bldg 6, Roof, Ins Felt - Felts/Tar	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
6-R5c *291600398-0194*	Bldg 6, Roof, Felt on Ins. - Felts/Tar	Black Fibrous Homogeneous	8% Cellulose 10% Glass	82% Non-fibrous (Other)	None Detected
6-R5d *291600398-0195*	Bldg 6, Roof, Pearlite - Felts/Tar	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
6-R5e *291600398-0196*	Bldg 6, Roof, Roof, Top Layer - Felts/Tar	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected

Analyst(s)

Billy Barnes (120)
Essie Spencer (77)
Joshua Moorman (36)
Kelly Gallisdorfer (15)

Essie Spencer, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial Report From: 01/25/2016 18:53:03

EMSL Analytical, Inc.
2500 Gateway Centre Bouleva

Asbestos Bulk Building Material

Atlantic Shores Environmental Svcs., Ltd
1259A
1/25/2016 8:30
PLM

TAT: 72 Hour
Bulk

Order ID: 291600437
No Samples: 202
Due: 01/28 8:30 AM
Fax: 910-371-6652

NC 27560
)-465-3900
)-465-3950

Company: Atlantic Shores Environmental Svcs., Ltd	**EMSL-Bill to.** ☐ Same ☑ Different If Bill to is Different note instructions in Comments**
Street: 154 Backhoe Road	*Third Party Billing requires written authorization from third party*
City Leland **State/Province:** NC	**Zip/Postal Code:** 28451 **Country.** United States
Report To (Name) Elliot Swain	**Telephone #:** 910-371-5980
Email Address: eswain@atlanticshoresenv com	**Fax #.** 910-371-6652 **Purchase Order:**
Project Name/Number: ~~1202~~ 1259A	**Please Provide Results:** ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken. NC	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)

- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- Point Count ☐ 400 (<0.25%) ☐ 1000 (<0 1%)
- Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0 1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NY ELAP Method 198 1 (friable in NY)
- ☐ NY ELAP Method 198.6 NOB (non-friable-NY)
- ☐ OSHA ID-191 Modified
- ☐ Standard Addition Method

TEM – Bulk

- ☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
- ☐ NY ELAP Method 198.4 (TEM)
- ☐ Chatfield Protocol (semi-quantitative)
- ☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5 5.2
- ☐ TEM Qualitative via Filtration Prep Technique
- ☐ TEM Qualitative via Drop Mount Prep Technique

Other

- ☐

☒ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled.** 1/22/16

Samplers Name: Chery Moody **Samplers Signature**

Sample #	HA #	Sample Location	Material Description
1-16F	16	Bldg 1 Basement library addition	Dry wall
1-62A	62	Bldg 1 Basement Morgue	12x12 FT
1-62B	62	" "	"
1-63A	63	" "	Leveling Compound
1-63B	63	" "	
1-64A	64	Bldg 1 Basement Photobb	Mud Filter in air cell
1-64B	64	"	"
1-64C	64	"	"
1-65	65	"	Plaster wall
1-66	66	Morgue Bldg 1 basement	2x4 CT

Client Sample # (s): 1-16F - 6-13B **Total # of Samples:** 202

Relinquished (Client). **Date** 1/22/16 **Time:** 10:25

Received (Lab). **Date:** 1/23/16 **Time.** 10:55 am

Comments/Special Instructions:
BillTo: Atlantic Shores Environmental Svcs., Ltd. 154 Backhoe Road, Leland NC 28451, United States
Attention: Chery Moody Phone: 910 371-5980 Email: eswain@atlanticshoresenv com Purchase Order

1/25/16 5:30pm

N

EMSL Analytical, Inc
2500 Gateway Centre Bouleva

Morrisville, NC 27560
9-465-3900
9-465-3950

Asbestos Bulk Building Material Chain of Custody

Atlantic Shores Environmental Svcs., Ltd
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Addit.

Sample #	HA #	Sample Location	Material Description
167A	67	Bldg 1 Basement above Ceiling	TSI Wrap on Fiberglass
1-67B	67	↓	↓
1-67C	67	↓	↓
1-68A	68	Bldg 1 Basement above Ceiling	Mud Fitting on Fiberglass TSI
1-68B	68	↓	↓
1-68C	68	↓	↓
1-69A	69	↓	TSI Wrap + tar on Fiberglass
1-69B	69	↓	↓
1-69C	69	↓	↓
1-70A	70	Bldg 1 Basement ♀ locker Room	2x4 CT Smooth
1-70B	70	" ♀ locker Room	↓
1-70C	70	Bldg 1 Basement ♂ locker Room	↓
1-71A	71	Bldg 1 Basement Storage Rm	12x12 FT
1-71B	71	"	"
1-72A	72	" " Ceiling	Tar paper (also in Bldg 6)
1-72B	72		"
1-73A	73	Bldg 1 exterior N Side	Water proofing patch
1-73B	73	↓	"
1-74A	74	↓	Water proofing Coloring
1-74B	74	↓	"
1-75A	75	↓	Flashing Caulk
1-75B	75	↓	"
1-76A	76	↓	Stucco + 3 layers Tar paper + Tar
1-76B	76	↓	"

***Comments/Special Instructions:**
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Attention: Cheryl Moody Phone: 910-371-5980 Email: cswain@atlanticshoresenv.com Purchase Order

24

Page 2 of 11 pages

Kelly Gallagher 1/22/16 10:20 am

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Asbestos Bulk Building Material Chain of Custody

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Additional Pages of the Chain of Custody are only ...

Sample #	HA #	Sample Location	Material Description
1-77A	77	Bldg 1 exterior N Side	Tar paper between brick layers
1-77B	77	"	"
1-78A	78	West Side	~~Scratchy on paint coating~~ window glaze
1-78B	78		window glaze
1-79A	79	west side	Stucco on patch outline
1-79B	79		
1-79C	79		
1-80A		Bldg 1 S Side	window Caulk
1-80B		"	window Caulk
2-1A	2-1	Bldg 2 Basement Mech. Room	putty
2-1B	2-1	"	"
2-2A	2-2	Bldg 2 Basement	Spray on fireproofing
2-2B	2-2	1st floor	
2-2C	2-2	3rd	
2-2D	2-2	3rd	
2-2D	2-2	3rd	
2-3A	2-3	Bldg 2 3rd Floor Small office	12x12 FT black mastic
2-3B	2-3	" "	"
2-4A	2-4	" Hall	Gray 12x12 Tile
2-4B	2-4	" Hall	"

***Comments/Special Instructions:**
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Attention: Cheryl Moody Phone: 910-371-5980 Email: eswain@atlanticshoresenv.com Purchase Order

Page 3 of 11 pages

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Kelly Gallagher 1/22/16 10:30am

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2500 Gateway Centre Bouleva
risville, NC 27560
NE: 919-465-3900
AX: 919-465-3950

Asbestos Bulk Building Material

Atlantic Shores Environmental Svcs., Ltd
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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
2-5A	2-5	Bldg 2 3rd Fl hall	12x12 black Green Tile
2-5B	2-5	"	"
2-6A	2-6	Bldg 2 3rd Fl Mech Rm	12x12 FT black mastic
2-6B	2-6	"	"
2-7A	2-7	Bldg 2 3rd Fl	Plaster
2-7B	2-7	↓	↓
2-7C	2-7	↓	↓
2-8A	2-8	Office	Dry wall / Joint
2-8B	2-8	Mech Rm	↓
2-8C	2-8	Cont Rm	↓
2-8D	2-8	Lunch Rm 2nd Fl	↓
2-9A	2-9	Bldg 2 3rd Fl	Wall plaster @ Stairs
2-9B	2-9	"	"
2-10A	2-10	Bldg 2 S Stairwell	12x12 FT yellow mastic
2-10B	2-10	"	"
2-11A	2-11	Bldg 2 3rd Floor	2x4 CT
2-11B	2-11	2nd Floor	↓
2-11C	2-11	3rd Floor	↓
2-12A	2-12	Bldg 2 Mechanical Rm	Spray on fireproof Same as (6-12)
2-12B	2-12	" "	"
2-13A	2-13	abandoned Stairwell 3rd Floor Bldg 2	9x9 FT black mastic
2-13B	2-13	"	"
2-14A	2-14	Bldg 2 3rd Floor hall	Textured Stucco ceiling
2-14B	2-14	"	" "

***Comments/Special Instructions:**
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Kelly Gallisgaeth 1/27/16 10:25

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ateway Centre Bouleva
le, NC 27560
PHONE 919-465-3900
FAX 919-465-3950

Atlantic Shores Environmental Svcs., Ltd
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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
2-15A	2-15	Bldg 2 - lunch Room + hall	White 12x12 FT black mastic
2-15B	2-15	"	"
2-16A	2-16	Bldg 2 2nd Floor ♂ Bath	2x4 CT Smooth
2-16B	2-16	↓	↓
2-16C	2-16	↓	↓
2-17A	2-17	Bldg 2 Plate Rm 1st Floor	12x12 Gray FT black mastic
2-17B	2-17	↓ ↓	"
2-18A	2-18	↓ ↓	Tile on elevated floor
2-18B	2-18	↓ ↓	"
2-19A	2-19	Bldg 2 1st Floor hall mez	12x12 tile
2-19B	2-19	↓ Plate Rm	"
2-20A	2-20	Bldg 2 3rd Floor IT	Tile under carpet black mastic
2-20B	2-20	"	"
3-1A	3-1	Bldg 3 3rd Fl	2x4 CT
3-1B	3-1	↓	↓
3-1C	3-1	↓	↓
3-2A	3-2	Bldg 3 1st Floor stairwell	2x2 CT
3-2B	3-2	↓	↓
3-2C	3-2	↓	↓

***Comments/Special Instructions:**
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Kelly Gallagher 1/27/16 10:35

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Asbestos Bulk Building Material

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Sample #	HA #	Sample Location	Material Description
3-3A	3-3	Bldg 3 2nd Fl	Fireproofing
3-3B	3-3	3rd Fl	
3-3C	3-3	3rd Fl	
3-3D	3-3	Basement	
3-3E	3-3	1st Fl	
3-4A	3-4	Elev lobby 1st	Dry wall / Joint compound
3-4B	3-4	Hall 1st	
3-4C	3-4	3rd Fl	
3-5A	3-5	1st Floor Stairwell	12x12 Tile white black mastic
3-5B	3-5	1st Fl. Hall	"
3-6A	3-6	Rear grass lobby	Gray 12x12 Tile
3-6B	3-6	"	"
3-7A	3-7	below Sample 3-6	white tile 12x12 black mastic
3-7B	3-7	" "	"
3-8A	3-8	exterior	Stucco
3-8B	3-8		"
3-8C	3-8		"
3-9A	~~3-9~~ 3-9	exterior window S. side	White Caulk
3-9B	3-9	"	"
3-10A	3-10	"	Grey Caulk
3-10B	3-10	"	

***Comments/Special Instructions:**
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Page 6 of 11 pages

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Asbestos Bulk Building Material
Chain of Custody

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1259A
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Additional Pages of the Chain of Custody are only necessary ...

Sample #	HA #	Sample Location	Material Description
4-1A	4-1	Bldg 4 E Storage Rm	Fire proofing
4-1B	4-1	"	
4-1C	4-1	LD	
4-1D	4-1	LD	
4-1E	4-1	Distribution garage	
4-2A	4-2	LD Intersection	Caulk
4-2B	4-2	~~West Machine Shop~~	"
4-3A	4-3	East ~~West~~ Machine Shop	Fiberglass TSI jacket
4-3B	4-3	"	"
4-4A	4-4	Break Room	12x12 FT black mastic
4-4B	4-4	"	
4-5A	4-5	East Wall Room	2x4 CT Acus
4-5B		"	
4-5C		"	
4-6A	4-6		Drywall joint
4-6B			"
4-6C			"
4-7A	4-7	Break Rm	2x4 CT Ivory finish
4-7B			
4-7C			
4-8A		3rd Floor Break Room	12x12 FT black mastic
4-8B		"	"

***Comments/Special Instructions:**
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Attention: Cheryl Moody Phone: 910-371-5980 Email: eswain@atlanticshoresenv.com Purchase Order

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NC 27560
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Asbestos Bulk Building Material

Chain of Custody

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1259A
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Bulk

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Additi... chain of custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
5-1A	5-1	Building 5 2nd FL	Spray-on fire proofing
5-1B		Building 5 "	"
5-1C		Building 5 1st Floor	
5-1D		Building 5	
5-2A	5-2	Building 5 3rd Floor	Ceiling Tile
5-2B		Building 5	
5-2C		Building 5	
5-3A	5-3	Building 5	Drywall
5-3B		Building 5	Drywall
5-1E	5-1	Building 5 1st Floor	Spray-on fire proofing
5-3C	5-3	Building 5 3rd Floor office	Drywall
~~6-13A~~	~~6~~	~~Building 6~~	~~Fire barrier below wood deck~~
~~6-13B~~		~~Building 6~~	" "

***Comments/Special Instructions:**
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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information.

Sample #	HA #	Sample Location	Material Description
4-9A	4-9	Bldg 4 - 3rd Fl.	2x2 ceiling tile
4-9B	↓	↓	↓
4-9C	↓	↓	↓
PO 1A	PO 1	Po Bldg	blue 12x12 FT
PO 1B	PO 1		"
PO 2A	PO 2		2x4 CT
PO 2B	↓		↓
PO 2C	↓		↓
PO 3A	PO 3		Drywall / Joint
PO 3B	↓		↓
PO 3C	↓		↓
PO 4A	PO 4		Interior insulation 9"x2"
PO 4B	↓	↓	"

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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
6-1A		Building 6 1st floor	Expansion Joint
6-1B		1st floor	" "
6-2A		1st floor Elevator room	Red Caulking Elevator room
6-2B		1st floor Elevator room	" "
6-3A		1st floor Elevator room	Wall Plaster in ~~Bathroom~~ Elevator room
6-3B		" "	" "
6-3C		5th floor [redacted] mens bathroom	[redacted] 5th floor mens bathroom
6-4A		2nd floor Hall	12x12 tile Hall 2nd floor
6-4B		" "	" "
6-5A		~~Shop office~~ 2nd floor Hall	12x12 tile 2nd floor hall under 4A/4B
6-5B		~~Shop office~~ 2nd floor Hall	" "
6-6A		2nd floor Shop	Black 12x12 tile in Shop
6-6B		" "	" "
6-7A		" "	White tile w/ black mastic under 6A/B
6-8A		Kitchen 2x4 Ceiling tile Building 6	Ceiling tile 2x4 mens bathroom
6-8B		Building 6 2nd floor mens bathroom	Ceiling tile 2x4 mens bathroom
6-9A		Building 6 2nd floor mens bathroom	Smooth ceiling tile
6-10A		Building 6 ~~2nd floor mens bathroom~~ 5th floor Hall	~~Wall Plaster~~ Dry wall
6-10B		5th floor weight room	Dry wall
6-11A ~~6-10C~~		Building 6 Weight room	Tile w/ black mastic
6-11B		Building 6 " "	" "
6-12A		Building 6 above weight room	Same as 2-12
12B		Building 6 above utility room	Same as 2-12
12C		Building 6 Hallway	Same as 2-12

***Comments/Special Instructions:**
BillTo: Atlantic Shores Environmental Svcs., Ltd, 154 Backhoe Road, Leland, NC, 28451, United States
Attention: Cheryl Moody Phone: 910-371-5980 Email: eswain@atlanticshoresenv.com Purchase Order.

Page 10 of 11 pages

Kelly Gallagher 1/28/16 10:30 am

Asbestos Bulk Building Material

EMSL Analytical, Inc.
2500 Gateway Centre Bouleva
le, NC 27560
919-465-3900
919-465-3950

Atlantic Shores Environmental Svcs., Ltd
1259A
1/25/2016 8:30
PLM

TAT: 72 Hour
Bulk

Order ID: 291600437
No Samples: 202
Due: 01/28 8:30 AM
Fax: 910-371-6652

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	HA #	Sample Location	Material Description
M-R1a	~~M-1Ra~~		MAILROOM, ROOF, OLD PLUGGED STEAM PIPE, INSULATION AT WALL PENETRATION	~~TAR/FELTS~~ PIPE INSULATION WHT
M-R1b	~~M-1Rb~~		" "	PIPE INSULATION WHT
M-R2	~~M-2~~		MAILROOM, ROOF, TOP LAYER	TAR/FELTS
M-R3	~~M-3~~		MAILROOM, ROOF, TOP LAYER	TAR/FELTS
	M-R4		MAILROOM, ROOF, FLASHING	TAR/FELTS
	M-R5		MAILROOM, ROOF, FLASHING	TAR/FELTS
	M-R6		MAILROOM, ROOF, FLASHING CEMENT	TAR
	M-R7		MAILROOM, ROOF, FLASHING CEMENT	TAR
	M-R8a		MAILROOM, ROOF, BLDG 1 EXT. WINDOW CAULK	WIN CAULK - GRAY
	M-R8b		MAILROOM, ROOF, BLDG 1 EXT. WINDOW CAULK	WIN CAULK - GRAY
	M-R9a		MAILROOM, ROOF, BLDG 1 EXT. WINDOW GLAZING	WIN GLAZING - GRAY/WHT
	M-R9b		MAILROOM, ROOF, BLDG 1 EXT. WINDOW GLAZING	WIN. GLAZING - GRAY/WHT
	6-13A		Building 6 Air handler room	Tar barrier below wood floor
	6-13B		Building 6 Air handler room	Tar barrier below wood floor

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EMSL Order: 291600437
Customer ID: ATLS78
Customer PO:
Project ID:

Attention: Cheryl Moody
Atlantic Shores Environmental Svcs., Ltd
154 Backhoe Road
Leland, NC 28451

Project: 1259A

Phone: (910) 371-5980
Fax: (910) 371-6652
Received Date: 1/25/2016 8:30 AM
Analysis Date: 1/26/2016
Collected Date: 1/21/2016

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-16F *291600437-0001* *This is a composite result of drywall, and joint compound.*	Bldg 1 Basement Library Addition - Drywall	White Fibrous Homogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
1-62A-Floor Tile *291600437-0002*	Bldg 1 Basement Morgue - 12x12 FT	White Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-62A-Mastic *291600437-0002A*	Bldg 1 Basement Morgue - 12x12 FT	Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-62B-Floor Tile *291600437-0003*	Bldg 1 Basement Morgue - 12x12 FT	White Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-62B-Mastic *291600437-0003A*	Bldg 1 Basement Morgue - 12x12 FT	Yellow Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-63A-Leveler *291600437-0004*	Bldg 1 Basement Morgue - Leveling Compound	White Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
1-63A-Mastic *291600437-0004A*	Bldg 1 Basement Morgue - Leveling Compound	Beige Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-63B-Leveler *291600437-0005*	Bldg 1 Basement Morgue - Leveling Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-63B-Mastic *291600437-0005A*	Bldg 1 Basement Morgue - Leveling Compound	Yellow Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-64A *291600437-0006*	Bldg 1 Basement Photo Lab - Mud Fitting on Air Cell	Brown Fibrous Homogeneous	2% Cellulose 40% Min. Wool 15% Glass	40% Non-fibrous (Other)	3% Chrysotile
1-64B *291600437-0007*	Bldg 1 Basement Photo Lab - Mud Fitting on Air Cell				Stop Positive (Not Analyzed)
1-64C *291600437-0008*	Bldg 1 Basement Photo Lab - Mud Fitting on Air Cell				Stop Positive (Not Analyzed)
1-65-Skim Coat *291600437-0009*	Bldg 1 Basement Photo Lab - Plaster Wall	White Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
1-65-Base Coat *291600437-0009A*	Bldg 1 Basement Photo Lab - Plaster Wall	Brown Fibrous Homogeneous	<1% Glass	100% Non-fibrous (Other)	None Detected
1-66 *291600437-0010*	Morgue Bldg 1 Basement - 2x4 CT	Brown Fibrous Homogeneous	25% Cellulose 45% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
1-67A *291600437-0011*	Bldg 1 Basement Above Ceiling - TSI Wrap on Fiberglass	Brown/Tan/Green Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected

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EMSL Order: 291600437
Customer ID: ATLS78
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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 % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-67B *291600437-0012* *Inseparable paint / coating layer included in analysis*	Bldg 1 Basement Above Ceiling - TSI Wrap on Fiberglass	Brown/Tan/Green Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
1-67C *291600437-0013*	Bldg 1 Basement Above Ceiling - TSI Wrap on Fiberglass	Tan/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1-68A *291600437-0014*	Bldg 1 Basement Above Ceiling - Mud Fitting on Fiberglass TSI	Gray/White Fibrous Homogeneous	10% Cellulose 35% Min. Wool 15% Glass	40% Non-fibrous (Other)	<1% Chrysotile
1-68B *291600437-0015*	Bldg 1 Basement Above Ceiling - Mud Fitting on Fiberglass TSI	Gray/White Fibrous Homogeneous	2% Cellulose	88% Non-fibrous (Other)	10% Chrysotile
1-68C *291600437-0016*	Bldg 1 Basement Above Ceiling - Mud Fitting on Fiberglass TSI				Stop Positive (Not Analyzed)
1-69A-TSI Wrap *291600437-0017*	Bldg 1 Basement Above Ceiling - TSI Wrap & Tar on Fiberglass	Brown/Tan Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
1-69A-Tar Paper *291600437-0017A*	Bldg 1 Basement Above Ceiling - TSI Wrap & Tar on Fiberglass	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
1-69B-TSI Wrap *291600437-0018*	Bldg 1 Basement Above Ceiling - TSI Wrap & Tar on Fiberglass	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
1-69B-Tar Paper *291600437-0018A*	Bldg 1 Basement Above Ceiling - TSI Wrap & Tar on Fiberglass	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1-69C-TSI Wrap *291600437-0019*	Bldg 1 Basement Above Ceiling - TSI Wrap & Tar on Fiberglass	Tan/Beige Fibrous Heterogeneous	35% Cellulose 30% Glass	35% Non-fibrous (Other)	None Detected
1-69C-Tar Paper *291600437-0019A*	Bldg 1 Basement Above Ceiling - TSI Wrap & Tar on Fiberglass	Brown/Black Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
1-70A *291600437-0020*	Bldg 1 Basement Women's Locker Room - 2x4 CT Smooth	Brown/White Fibrous Homogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
1-70B *291600437-0021*	Bldg 1 Basement Women's Locker Room - 2x4 CT Smooth	Brown/White Fibrous Heterogeneous	10% Cellulose 15% Glass	75% Non-fibrous (Other)	None Detected
1-70C *291600437-0022*	Bldg 1 Basement Men's Locker Room - 2x4 CT Smooth	Brown/White Non-Fibrous Heterogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
1-71A *291600437-0023*	Bldg 1 Basement Storage Room - 12x12 FT	Tan/Beige Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-71B *291600437-0024*	Bldg 1 Basement Storage Room - 12x12 FT	White/Gold Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-72A *291600437-0025*	Bldg 1 Basement Ceiling - Tar Paper (Also in Bldg 6)	Brown/Black Fibrous Heterogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
1-72B *291600437-0026*	Bldg 1 Basement Ceiling - Tar Paper (Also in Bldg 6)	Brown/Black Fibrous Heterogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
1-73A *291600437-0027*	Bldg 1 Exterior N Side - Water Proofing Patch	Brown/Black Fibrous Heterogeneous	25% Cellulose	72% Non-fibrous (Other)	3% Chrysotile
1-73B *291600437-0028*	Bldg 1 Exterior N Side - Water Proofing Patch				Stop Positive (Not Analyzed)
1-74A *291600437-0029*	Bldg 1 Exterior N Side - Water Proofing (2 Layers)	Brown/Black Fibrous Heterogeneous	20% Cellulose	75% Non-fibrous (Other)	5% Chrysotile
1-74B *291600437-0030*	Bldg 1 Exterior N Side - Water Proofing (2 Layers)				Stop Positive (Not Analyzed)
1-75A *291600437-0031*	Bldg 1 Exterior N Side - Flashing Caulk	Brown/Black Fibrous Heterogeneous	20% Cellulose 5% Glass	70% Non-fibrous (Other)	5% Chrysotile
1-75B *291600437-0032*	Bldg 1 Exterior N Side - Flashing Caulk				Stop Positive (Not Analyzed)
1-76A-Stucco *291600437-0033*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	White/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-76A-Tar Paper 1 *291600437-0033A*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	Brown/Black Fibrous Heterogeneous	25% Cellulose	65% Non-fibrous (Other)	10% Chrysotile
1-76A-Tar Paper 2 *291600437-0033B*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	Brown/Black Fibrous Heterogeneous	20% Cellulose	70% Non-fibrous (Other)	10% Chrysotile
1-76A-Tar Paper 3 *291600437-0033C*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	Brown/Black Fibrous Heterogeneous	20% Cellulose	70% Non-fibrous (Other)	10% Chrysotile
1-76A-Tar *291600437-0033D*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-76B-Stucco *291600437-0034*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-76B-Tar Paper 1 *291600437-0034A*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar				Stop Positive (Not Analyzed)
1-76B-Tar Paper 2 *291600437-0034B*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar				Stop Positive (Not Analyzed)
1-76B-Tar Paper 3 *291600437-0034C*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar				Stop Positive (Not Analyzed)
1-76B-Tar *291600437-0034D*	Bldg 1 Exterior N Side - Stucco & 3 Layers Tar Paper & Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-77A *291600437-0035*	Bldg 1 Exterior N Side - Tar Paper Between Brick Layer	Brown/Black Fibrous Heterogeneous	35% Cellulose 10% Synthetic	47% Non-fibrous (Other)	8% Chrysotile

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EMSL Order: 291600437
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1-77B *291600437-0036*	Bldg 1 Exterior N Side - Tar Paper Between Brick Layer				Stop Positive (Not Analyzed)
1-78A *291600437-0037*	Bldg 1 Exterior W Side - Window Glaze	Tan/Beige Fibrous Heterogeneous	5% Cellulose 2% Wollastonite	93% Non-fibrous (Other)	<1% Chrysotile
1-78B *291600437-0038*	Bldg 1 Exterior W Side - Window Glaze	Tan/Beige Fibrous Heterogeneous	2% Cellulose 2% Synthetic	96% Non-fibrous (Other)	<1% Chrysotile
1-79A *291600437-0039*	Bldg 1 Exterior W Side - Surfacing on Porch Ceiling	White/Beige Fibrous Heterogeneous	5% Cellulose 3% Glass	92% Non-fibrous (Other)	None Detected
1-79B *291600437-0040*	Bldg 1 Exterior W Side - Surfacing on Porch Ceiling	Tan/White Fibrous Heterogeneous	3% Cellulose 2% Glass	95% Non-fibrous (Other)	None Detected
1-79C *291600437-0041*	Bldg 1 Exterior W Side - Surfacing on Porch Ceiling	Tan/White Fibrous Heterogeneous	3% Cellulose 2% Synthetic	95% Non-fibrous (Other)	None Detected
1-80A *291600437-0042*	Bldg 1 S. Side - Window Caulk	Gray/Beige Fibrous Heterogeneous	10% Cellulose 2% Wollastonite	80% Non-fibrous (Other)	8% Chrysotile
1-80B *291600437-0043*	Bldg 1 S. Side - Window Caulk				Stop Positive (Not Analyzed)
2-1A *291600437-0044*	Bldg 2 Basement Mech Rm - Putty	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-1B *291600437-0045*	Bldg 2 Basement Mech Rm - Putty	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-2A *291600437-0046*	Bldg 2 Basement - Spray on Fiberproofing	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2-2B *291600437-0047*	Bldg 2, 1st Floor - Spray on Fiberproofing	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-2C *291600437-0048*	Bldg 2 3rd Floor - Spray on Fiberproofing	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-2D *291600437-0049*	Bldg 2 3rd Floor - Spray on Fiberproofing	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2-2E *291600437-0050*	Bldg 2 3rd Floor - Spray on Fiberproofing	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2-3A-Floor Tile *291600437-0051*	Bldg 2 3rd Fl Small Office - 12x12 FT Black Mastic	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
2-3A-Mastic *291600437-0051A*	Bldg 2 3rd Fl Small Office - 12x12 FT Black Mastic	Tan/Black Fibrous Homogeneous	3% Cellulose	95% Non-fibrous (Other)	2% Chrysotile
2-3B *291600437-0052*	Bldg 2 3rd Fl Small Office - 12x12 FT Black Mastic				Stop Positive (Not Analyzed)
2-4A-Floor Tile *291600437-0053*	Bldg 2 3rd Fl, Hall - Grey 12x12 Tile	Gray Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

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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 % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
2-4A-Mastic *291600437-0053A*	Bldg 2 3rd Fl, Hall - Grey 12x12 Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-4B-Floor Tile *291600437-0054*	Bldg 2 3rd Fl, Hall - Grey 12x12 Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-4B-Mastic *291600437-0054A*	Bldg 2 3rd Fl, Hall - Grey 12x12 Tile	Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
2-5A-Floor Tile *291600437-0055*	Bldg 2 3rd Fl, Hall - 12x12 Black Accent Tile	Black Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-5A-Mastic *291600437-0055A*	Bldg 2 3rd Fl, Hall - 12x12 Black Accent Tile	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-5B-Floor Tile *291600437-0056*	Bldg 2 3rd Fl, Hall - 12x12 Black Accent Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-5B-Mastic *291600437-0056A*	Bldg 2 3rd Fl, Hall - 12x12 Black Accent Tile	Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
2-6A-Floor Tile *291600437-0057*	Bldg 2 3rd Fl Mech Rm - 12x12 FT Black Mastic	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
2-6A-Mastic *291600437-0057A*	Bldg 2 3rd Fl Mech Rm - 12x12 FT Black Mastic	Tan/Black Fibrous Homogeneous	3% Cellulose	94% Non-fibrous (Other)	3% Chrysotile
2-6B *291600437-0058*	Bldg 2 3rd Fl Mech Rm - 12x12 FT Black Mastic				Stop Positive (Not Analyzed)
2-7A-Skim Coat *291600437-0059*	Bldg 2 3rd Fl - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-7A-Base Coat *291600437-0059A*	Bldg 2 3rd Fl - Plaster	Brown Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-7B-Skim Coat *291600437-0060*	Bldg 2 3rd Fl - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-7B-Base Coat *291600437-0060A*	Bldg 2 3rd Fl - Plaster	Brown Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-7C-Skim Coat *291600437-0061*	Bldg 2 3rd Fl - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-7C-Base Coat *291600437-0061A*	Bldg 2 3rd Fl - Plaster	Brown Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-8A *291600437-0062* *This is a composite result of wallboard, and jt. compound.*	Bldg 2 3rd Fl Office - Drywall/Joint Compound	White Fibrous Homogeneous	5% Cellulose 10% Glass <1% Wollastonite	85% Non-fibrous (Other)	None Detected
2-8B *291600437-0063* *This is a composite result of wallboard, and jt. compound.*	Bldg 2 3rd Fl Mech Rm - Drywall/Joint Compound	White Fibrous Homogeneous	5% Cellulose 12% Glass <1% Wollastonite	83% Non-fibrous (Other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
2-8C *291600437-0064* *This is a composite result of wallboard, and jt. compound.*	Bldg 2 3rd Fl Conf Rm - Drywall/Joint Compound	White Fibrous Homogeneous	8% Cellulose 12% Glass	80% Non-fibrous (Other)	None Detected
2-8D *291600437-0065*	Bldg 2 2nd Fl Lunch Rm - Drywall/Joint Compound	White Fibrous Homogeneous	8% Cellulose 12% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
2-9A-Floor Tile *291600437-0066*	Bldg 2 3rd Fl - Wall Plate @ Stairs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-9A-Mastic *291600437-0066A*	Bldg 2 3rd Fl - Wall Plate @ Stairs	Yellow Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
2-9B-Floor Tile *291600437-0067*	Bldg 2 3rd Fl - Wall Plate @ Stairs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-9B-Mastic *291600437-0067A*	Bldg 2 3rd Fl - Wall Plate @ Stairs	Yellow Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-1A *291600437-0068*	Bldg 2 S Stairwell - 12x12 FT Yellow Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-1-B *291600437-0069*	Bldg 2 S Stairwell - 12x12 FT Yellow Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-11A *291600437-0070*	Bldg 2 3rd Fl - 2x4 CT	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-11B *291600437-0071*	Bldg 2 2nd Fl - 2x4 CT	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-11C *291600437-0072*	Bldg 2 2nd Fl - 2x4 CT	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-12A *291600437-0073*	Bldg 2 Mech Rm - Spray On Fireproof Same as (6-12)	White Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
2-12B *291600437-0074*	Bldg 2 Mech Rm - Spray On Fireproof Same as (6-12)	White Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
2-13A-Floor Tile *291600437-0075*	Abandoned Stairwell 3rd Fl Bldg 2 - 9x9 FT Black Mastic	Beige Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
2-13A-Mastic *291600437-0075A*	Abandoned Stairwell 3rd Fl Bldg 2 - 9x9 FT Black Mastic	Black Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
2-13B *291600437-0076*	Abandoned Stairwell 3rd Fl Bldg 2 - 9x9 FT Black Mastic				Stop Positive (Not Analyzed)
2-14A *291600437-0077*	Bldg 2 3rd Fl Hall - Textured Floor Covering	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-14B *291600437-0078*	Bldg 2 3rd Fl Hall - Textured Floor Covering	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-15A-Floor Tile *291600437-0079*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic	White Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

Initial report from: 01/26/2016 17:55:48

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
2-15A-Mastic *291600437-0079A*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic	Black Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
2-15B *291600437-0080*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic				Stop Positive (Not Analyzed)
2-16A *291600437-0081*	Bldg 2 2nd Fl Women's Room - 2x4 CT Smooth	Gray/White Fibrous Homogeneous	5% Cellulose 12% Glass	83% Non-fibrous (Other)	None Detected
2-16B *291600437-0082*	Bldg 2 2nd Fl Women's Room - 2x4 CT Smooth	Gray/White Fibrous Homogeneous	3% Cellulose 12% Glass	85% Non-fibrous (Other)	None Detected
2-16C *291600437-0083*	Bldg 2 2nd Fl Women's Room - 2x4 CT Smooth	Gray/White Fibrous Homogeneous	2% Cellulose 15% Glass	83% Non-fibrous (Other)	None Detected
2-17A-Floor Tile *291600437-0084*	Bldg 2 Plate Rm, 1st Fl - 12x12 Green FT Black Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-17A-Mastic *291600437-0084A*	Bldg 2 Plate Rm, 1st Fl - 12x12 Green FT Black Mastic	Tan/Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2-17B-Floor Tile *291600437-0085*	Bldg 2 Plate Rm, 1st Fl - 12x12 Green FT Black Mastic	Green Fibrous Homogeneous	5% Cellulose 2% Synthetic	93% Non-fibrous (Other)	None Detected
2-17B-Mastic *291600437-0085A*	Bldg 2 Plate Rm, 1st Fl - 12x12 Green FT Black Mastic	Brown/Black Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2-18A *291600437-0086*	Bldg 2 Plate Rm, 1st Fl - Glue on Elevated Floor	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
2-18B *291600437-0087*	Bldg 2 Plate Rm, 1st Fl - Glue on Elevated Floor	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
2-19A *291600437-0088*	Bldg 2 1st Fl Hall Near Plate Rm - 12x12 Tile	Gray/White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-19B *291600437-0089*	Bldg 2 1st Fl Hall Near Plate Rm - 12x12 Tile	Gray/White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
2-20A-Floor Tile *291600437-0090*	Bldg 2 3rd Fl IT - Tile Under Carpet & Black Mastic	White Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
2-20A-Mastic *291600437-0090A*	Bldg 2 3rd Fl IT - Tile Under Carpet & Black Mastic	Black Fibrous Homogeneous	2% Cellulose	95% Non-fibrous (Other)	3% Chrysotile
2-20B-Floor Tile *291600437-0091*	Bldg 2 3rd Fl IT - Tile Under Carpet & Black Mastic	White Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
2-20B-Mastic *291600437-0091A*	Bldg 2 3rd Fl IT - Tile Under Carpet & Black Mastic				Stop Positive (Not Analyzed)
3-1A *291600437-0092*	Bldg 3 3rd Fl - 2x4 CT	Brown/White Fibrous Homogeneous	25% Cellulose	60% Perlite 15% Non-fibrous (Other)	None Detected
3-1B *291600437-0093*	Bldg 3 3rd Fl - 2x4 CT	Brown/White Fibrous Homogeneous	25% Cellulose	60% Perlite 15% Non-fibrous (Other)	None Detected

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3-1C *291600437-0094*	Bldg 3 3rd Fl - 2x4 CT	White Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
3-2A *291600437-0095*	Bldg 3 1st Fl S Lobby - 2x2 CT	Brown/White Fibrous Homogeneous	25% Cellulose 10% Min. Wool 25% Glass	15% Perlite 25% Non-fibrous (Other)	None Detected
3-2B *291600437-0096*	Bldg 3 1st Fl S Lobby - 2x2 CT	Brown/White Fibrous Homogeneous	20% Cellulose 10% Min. Wool 25% Glass	15% Perlite 30% Non-fibrous (Other)	None Detected
3-2C *291600437-0097*	Bldg 3 1st Fl S Lobby - 2x2 CT	Beige Fibrous Homogeneous	15% Cellulose 20% Glass	65% Non-fibrous (Other)	None Detected
3-3A *291600437-0098*	Bldg 3 2nd Fl - Fireproofing	Brown Fibrous Homogeneous	3% Cellulose 2% Glass	95% Non-fibrous (Other)	None Detected
3-3B *291600437-0099*	Bldg 3 3rd Fl - Fireproofing	Brown Fibrous Homogeneous	5% Cellulose 3% Glass	92% Non-fibrous (Other)	None Detected
3-3C *291600437-0100*	Bldg 3 3rd Fl - Fireproofing	Brown Fibrous Homogeneous	5% Cellulose	15% Perlite 80% Non-fibrous (Other)	None Detected
3-3D *291600437-0101*	Bldg 3 Basement - Fireproofing	Beige Fibrous Homogeneous	8% Cellulose 15% Glass	77% Non-fibrous (Other)	None Detected
3-3E *291600437-0102*	Bldg 3 1st Fl - Fireproofing	Beige Fibrous Homogeneous	8% Cellulose 15% Glass	77% Non-fibrous (Other)	None Detected
3-4A *291600437-0103* *This is a composite result of drywall, and joint compound.*	Bldg 3 Elev Lobby 1st Fl - Drywall/Joint Compound	White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
3-4B *291600437-0104* *This is a composite result of drywall, and joint compound.*	Bldg 3 Hall 1st Fl - Drywall/Joint Compound	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
3-4C *291600437-0105* *This is a composite result of wallboard, and jt. compound.*	Bldg 3 3rd Fl - Drywall/Joint Compound	White Fibrous Homogeneous	8% Cellulose 12% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
3-5A-Floor Tile *291600437-0106*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	White Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
3-5A-Mastic *291600437-0106A*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	Black Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
3-5B-Floor Tile *291600437-0107*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	White Fibrous Homogeneous	3% Cellulose	94% Non-fibrous (Other)	3% Chrysotile
3-5B-Mastic *291600437-0107A*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic				Stop Positive (Not Analyzed)
3-6A-Floor Tile *291600437-0108*	Bldg 3 Post Press Lobby - Gray 12x12 Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-6A-Mastic *291600437-0108A*	Bldg 3 Post Press Lobby - Gray 12x12 Tile				Insufficient Material

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3-6B-Floor Tile *291600437-0109*	Bldg 3 Post Press Lobby - Gray 12x12 Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-6B-Mastic *291600437-0109A*	Bldg 3 Post Press Lobby - Gray 12x12 Tile				Insufficient Material
3-7A-Floor Tile *291600437-0110*	Bldg 3 Below Sample 3-6 - White Tile 12x12 Black Mastic	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
3-7A-Mastic *291600437-0110A*	Bldg 3 Below Sample 3-6 - White Tile 12x12 Black Mastic	Black Fibrous Homogeneous	3% Cellulose 8% Synthetic	89% Non-fibrous (Other)	None Detected
3-7B-Floor Tile *291600437-0111*	Bldg 3 Below Sample 3-6 - White Tile 12x12 Black Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-7B-Mastic *291600437-0111A*	Bldg 3 Below Sample 3-6 - White Tile 12x12 Black Mastic	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
3-8A *291600437-0112*	Bldg 3 Exterior - Stucco	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-8B *291600437-0113*	Bldg 3 Exterior - Stucco	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-8C *291600437-0114*	Bldg 3 Exterior - Stucco	Brown/Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
3-9A *291600437-0115*	Bldg 3 Exterior Window S Side - White Caulk	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
3-9B *291600437-0116*	Bldg 3 Exterior Window S Side - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-10A *291600437-0117*	Bldg 3 Exterior Window S Side - Grey Caulk	Gray Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
3-10B *291600437-0118*	Bldg 3 Exterior Window S Side - Grey Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-1A *291600437-0119*	Bldg 4 E Storage Rm - Fireproofing	Brown/Tan/Beige Fibrous Heterogeneous	25% Cellulose 10% Glass	15% Mica 50% Non-fibrous (Other)	None Detected
4-1B *291600437-0120*	Bldg 4 E Storage Rm - Fireproofing	Tan/Beige Fibrous Homogeneous	25% Cellulose 25% Glass	20% Mica 30% Non-fibrous (Other)	None Detected
4-1C *291600437-0121*	Bldg 4 LD - Fireproofing	Tan/Beige Fibrous Heterogeneous	25% Cellulose 15% Glass	20% Mica 40% Non-fibrous (Other)	None Detected
4-1D *291600437-0122*	Bldg 4 LD - Fireproofing	Tan/Beige Fibrous Heterogeneous	25% Cellulose 10% Glass	20% Mica 45% Non-fibrous (Other)	None Detected
4-1E *291600437-0123*	Bldg 4 Distribution Garage - Fireproofing	Tan/Beige Non-Fibrous Heterogeneous	25% Cellulose 20% Glass	20% Mica 35% Non-fibrous (Other)	None Detected
4-2A *291600437-0124*	Bldg 4 LD Interior - Caulk	White/Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

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4-2B *291600437-0125*	Bldg 4 LD Interior - Caulk	White/Black Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
4-3A *291600437-0126*	Bldg 4 East Machine Shop - Fiberglass TSI Jacket	Tan/Silver/Beige Fibrous Heterogeneous	40% Cellulose 15% Glass	45% Non-fibrous (Other)	None Detected
4-3B *291600437-0127*	Bldg 4 East Machine Shop - Fiberglass TSI Jacket	Tan/White/Silver Fibrous Heterogeneous	35% Cellulose 10% Glass	55% Non-fibrous (Other)	None Detected
4-4A *291600437-0128* *Insuffcient mastic present on sample.*	Bldg 4 Break Rm - 12x12 FT Black Mastic	White Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
4-4B-Floor Tile *291600437-0129*	Bldg 4 Break Rm - 12x12 FT Black Mastic	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
4-4B-Mastic *291600437-0129A*	Bldg 4 Break Rm - 12x12 FT Black Mastic	Brown/Black Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
4-5A *291600437-0130*	Bldg 4 East Util Room - 2x4 CT Dots	Tan/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-5B *291600437-0131*	Bldg 4 East Util Room - 2x4 CT Dots	Tan/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-5C *291600437-0132*	Bldg 4 East Util Room - 2x4 CT Dots	Tan/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-6A *291600437-0133* *No joint compound present.*	Bldg 4 - Drywall/Joint Compound	Brown/White Fibrous Heterogeneous	40% Cellulose 10% Glass	50% Non-fibrous (Other)	None Detected
4-6B *291600437-0134* *No joint compound present.*	Bldg 4 - Drywall/Joint Compound	Brown/White Fibrous Heterogeneous	15% Cellulose 25% Glass	60% Non-fibrous (Other)	None Detected
4-6C *291600437-0135*	Bldg 4 - Drywall/Joint Compound	Brown/White Fibrous Heterogeneous	20% Cellulose 15% Glass	65% Non-fibrous (Other)	None Detected
4-7A *291600437-0136*	Bldg 4 Break Room - 2x4 CT Long Pattern	Tan/White Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-7B *291600437-0137*	Bldg 4 Break Room - 2x4 CT Long Pattern	Tan/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-7C *291600437-0138*	Bldg 4 Break Room - 2x4 CT Long Pattern	Tan Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-8A-Floor Tile *291600437-0139*	Bldg 4 3rd Fl Break Room - 12x12 FT Black Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-8A-Mastic *291600437-0139A*	Bldg 4 3rd Fl Break Room - 12x12 FT Black Mastic	Brown/Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
4-8B-Floor Tile *291600437-0140*	Bldg 4 3rd Fl Break Room - 12x12 FT Black Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4-8B-Mastic *291600437-0140A*	Bldg 4 3rd Fl Break Room - 12x12 FT Black Mastic	Brown/Black Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
5-1A *291600437-0141*	Bldg 5 2nd Fl - Spray-On Fireproofing	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
5-1B *291600437-0142*	Bldg 5 2nd Fl - Spray-On Fireproofing	Gray Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
5-1C *291600437-0143*	Bldg 5 1st Fl - Spray-On Fireproofing	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
5-1D *291600437-0144*	Bldg 5 1st Fl - Spray-On Fireproofing	Gray Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
5-1E *291600437-0145*	Bldg 5 1st Fl - Spray-On Fireproofing	Gray Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
5-2A *291600437-0146*	Bldg 5 3rd Fl Office - Ceiling Tile	Beige Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
5-2B *291600437-0147*	Bldg 5 3rd Fl Office - Ceiling Tile	Beige Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
5-2C *291600437-0148*	Bldg 5 3rd Fl Office - Ceiling Tile	Beige Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
5-3A *291600437-0149* *This is a composite result of wallboard, and jt. compound.*	Bldg 5 3rd Fl Office - Drywall	Gray/White Fibrous Homogeneous	8% Cellulose 12% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
5-3B *291600437-0150* *This is a composite result of wallboard, and jt. compound.*	Bldg 5 3rd Fl Office - Drywall	Gray/White Fibrous Homogeneous	10% Cellulose 10% Glass <1% Wollastonite	80% Non-fibrous (Other)	None Detected
5-3C *291600437-0151* *This is a composite result of wallboard, and jt. compound.*	Bldg 5 3rd Fl Office - Drywall	Gray/White Fibrous Homogeneous	8% Cellulose 5% Glass <1% Wollastonite	87% Non-fibrous (Other)	None Detected
4-9A *291600437-0152*	Bldg 4 3rd Fl - 2x2 CT	Tan/Beige Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-9B *291600437-0153*	Bldg 4 3rd Fl - 2x2 CT	Tan/Beige Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
4-9C *291600437-0154*	Bldg 4 3rd Fl - 2x2 CT	Tan/Beige Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
PO1A-Floor Tile *291600437-0155*	PO Bldg - Blue 12x12 FT	Blue Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
PO1A-Mastic *291600437-0155A*	PO Bldg - Blue 12x12 FT	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
PO1B-Floor Tile *291600437-0156*	PO Bldg - Blue 12x12 FT	Blue Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

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PO1B-Mastic *291600437-0156A*	PO Bldg - Blue 12x12 FT	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
PO2A *291600437-0157*	PO Bldg - 2x4 CT	Tan/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
PO2B *291600437-0158*	PO Bldg - 2x4 CT	Tan/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
PO2C *291600437-0159*	PO Bldg - 2x4 CT	White/Beige Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
PO3A *291600437-0160* *This is a composite result of drywall, jt. compound, and tape.*	PO Bldg - Drywall/Joint Compound	White/Beige Fibrous Heterogeneous	25% Cellulose 10% Glass 2% Wollastonite	63% Non-fibrous (Other)	None Detected
PO3B *291600437-0161* *This is a composite result of drywall, jt. compound, and tape.*	PO Bldg - Drywall/Joint Compound	Brown/Tan/White Non-Fibrous Heterogeneous	40% Cellulose 10% Glass 2% Wollastonite	48% Non-fibrous (Other)	None Detected
PO3C *291600437-0162* *This is a composite result of drywall, jt. compound, and tape.*	PO Bldg - Drywall/Joint Compound	Brown/Tan/White Fibrous Heterogeneous	20% Cellulose 10% Glass 2% Wollastonite	68% Non-fibrous (Other)	None Detected
PO4A *291600437-0163*	PO Bldg - Interior Window Glazing	White/Black Fibrous Homogeneous	10% Cellulose	87% Non-fibrous (Other)	3% Chrysotile
PO4B *291600437-0164*	PO Bldg - Interior Window Glazing				Stop Positive (Not Analyzed)
6-1A *291600437-0165*	Bldg 6 1st Fl - Expansion Joint	Brown/Black Non-Fibrous Heterogeneous	25% Cellulose 10% Synthetic	65% Non-fibrous (Other)	None Detected
6-1B *291600437-0166*	Bldg 6 1st Fl - Expansion Joint	Brown/Black Fibrous Heterogeneous	35% Cellulose 5% Glass	60% Non-fibrous (Other)	None Detected
6-2A *291600437-0167*	Bldg 6 1st Fl Elevator Room - Red Caulking Elevator Room	White/Red Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
6-2B *291600437-0168*	Bldg 6 1st Fl Elevator Room - Red Caulking Elevator Room	White/Red Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
6-3A *291600437-0169*	Bldg 6 1st Fl Elevator Room - Wall Plaster in Elevator Room	Gray/Tan/Beige Fibrous Heterogeneous	10% Cellulose 2% Wollastonite	88% Non-fibrous (Other)	None Detected
6-3B *291600437-0170*	Bldg 6 1st Fl Elevator Room - Wall Plaster in Elevator Room	Gray/White/Beige Fibrous Heterogeneous	5% Cellulose 3% Synthetic 2% Glass	90% Non-fibrous (Other)	None Detected
6-3C-Skim Coat *291600437-0171*	Bldg 6 3rd Fl Mens Batrhoom - Wall Plaster 3rd Fl Men's Bathroom	Gray/Tan/White Fibrous Heterogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
6-3C-Base Coat *291600437-0171A*	Bldg 6 3rd Fl Mens Batrhoom - Wall Plaster 3rd Fl Men's Bathroom	Tan Fibrous Heterogeneous	5% Cellulose 2% Synthetic	93% Non-fibrous (Other)	None Detected
6-4A-Floor Tile *291600437-0172*	Bldg 6 2nd Fl Hall - 12x12 Tile	Gray/White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

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EMSL Order: 291600437
Customer ID: ATLS78
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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 % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
6-4A-Mastic *291600437-0172A*	Bldg 6 2nd Fl Hall - 12x12 Tile	Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
6-4B-Floor Tile *291600437-0173*	Bldg 6 2nd Fl Hall - 12x12 Tile	Gray/White Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
6-4B-Mastic *291600437-0173A*	Bldg 6 2nd Fl Hall - 12x12 Tile	Tan Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
6-5A-Floor Tile *291600437-0174*	Bldg 6 2nd Fl Hall - 12x12 Tile Uner 4A/4B	White/Beige Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
6-5A-Mastic *291600437-0174A*	Bldg 6 2nd Fl Hall - 12x12 Tile Uner 4A/4B	Brown/Black Fibrous Homogeneous	5% Cellulose	90% Non-fibrous (Other)	5% Chrysotile
6-5B-Floor Tile *291600437-0175*	Bldg 6 2nd Fl Hall - 12x12 Tile Uner 4A/4B	White/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
6-5B-Mastic *291600437-0175A*	Bldg 6 2nd Fl Hall - 12x12 Tile Uner 4A/4B				Stop Positive (Not Analyzed)
6-6A *291600437-0176*	Bldg 6 2nd Fl Shop - Black 12x12 Tile in Shop	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
6-6B *291600437-0177*	Bldg 6 2nd Fl Shop - Black 12x12 Tile in Shop	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
6-7A-Floor Tile *291600437-0178*	Bldg 6 2nd Fl Shop - White Tile w/ Black Mastic Under 6A/6B	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	<1% Chrysotile
6-7A-Mastic *291600437-0178A*	Bldg 6 2nd Fl Shop - White Tile w/ Black Mastic Under 6A/6B	Brown/Black Fibrous Heterogeneous	5% Cellulose	92% Non-fibrous (Other)	3% Chrysotile
6-8A *291600437-0179*	Bldg 6 Men's Batrhoom - Ceiling Tile	White/Beige Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
6-8B *291600437-0180*	Bldg 6 2nd Fl Mens Bathroom - Ceiling Tile	Tan/White Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
6-9A *291600437-0181*	Bldg 6 2nd Fl Mens Bathroom - Smooth Ceiling Tile	Brown/White Fibrous Heterogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
6-10A *291600437-0182* *This is a composite result of drywall, jt. compound, and tape.*	Bldg 6 3rd Fl Hall - Drywall	Brown/White/Blue Non-Fibrous Heterogeneous	40% Cellulose 10% Glass 2% Wollastonite	48% Non-fibrous (Other)	None Detected
6-10B *291600437-0183* *This is a composite result of drywall, jt. compound, and tape.*	Bldg 6 3rd Fl Weight Room - Drywall	Brown/Tan/White Fibrous Heterogeneous	20% Cellulose 5% Glass 2% Wollastonite	73% Non-fibrous (Other)	None Detected
6-11A-Floor Tile *291600437-0184*	Bldg 6 Wright Room - Tile w/ Black Mastic	Tan Fibrous Heterogeneous	5% Cellulose	92% Non-fibrous (Other)	3% Chrysotile
6-11A-Mastic *291600437-0184A*	Bldg 6 Wright Room - Tile w/ Black Mastic	Brown/Black Fibrous Homogeneous	2% Cellulose	93% Non-fibrous (Other)	5% Chrysotile
6-11B *291600437-0185*	Bldg 6 Wright Room - Tile w/ Black Mastic				Stop Positive (Not Analyzed)

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Customer ID: ATLS78
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
6-12A *291600437-0186*	Bldg 6 Above Weight Rm - Same as 2-12	Tan/Beige Fibrous Homogeneous	10% Cellulose 10% Synthetic 30% Glass	50% Non-fibrous (Other)	None Detected
6-12B *291600437-0187*	Bldg 6 Above Utility Rm - Same as 2-12	Tan/White/Beige Non-Fibrous Heterogeneous	10% Cellulose 5% Synthetic 30% Glass	55% Non-fibrous (Other)	None Detected
6-12C *291600437-0188*	Bldg 6 Hallway - Same as 2-12	Tan/White/Beige Fibrous Heterogeneous	15% Cellulose 35% Min. Wool	50% Non-fibrous (Other)	None Detected
M-R1a *291600437-0189*	Mailroom, Old Plugged Steam Pipe Insul at Wall Pen - Pipe Insulation Wht	White Fibrous Homogeneous	5% Cellulose 10% Glass	50% Non-fibrous (Other)	10% Amosite 25% Chrysotile
M-R1b *291600437-0190*	Mailroom, Old Plugged Steam Pipe Insul at Wall Pen - Pipe Insulation Wht				Stop Positive (Not Analyzed)
M-R2 *291600437-0191*	Mailroom, Roof, Top Layer - Tar/Felts	Brown/Black/Yellow Fibrous Heterogeneous	5% Cellulose 20% Glass	75% Non-fibrous (Other)	None Detected
M-R3 *291600437-0192*	Mailroom, Roof, Top Layer - Tar/Felts	Brown/Black/Yellow Fibrous Heterogeneous	5% Cellulose 20% Glass	75% Non-fibrous (Other)	None Detected
M-R4 *291600437-0193*	Mailroom, Roof, Flashing - Tar/Felts	Brown/Gray/Black Fibrous Heterogeneous	10% Cellulose 54% Synthetic 5% Glass	31% Non-fibrous (Other)	None Detected
M-R5 *291600437-0194*	Mailroom, Roof, Flashing - Tar/Felts	Brown/Black Fibrous Heterogeneous	10% Cellulose 10% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
M-R6 *291600437-0195*	Mailroom, Roof Flashing Cement - Tar	Brown/Gray/Black Fibrous Heterogeneous	20% Cellulose	72% Non-fibrous (Other)	8% Chrysotile
M-R7 *291600437-0196*	Mailroom, Roof Flashing Cement - Tar	Brown/Gray/Black Fibrous Heterogeneous	10% Cellulose	85% Non-fibrous (Other)	5% Chrysotile
M-R8a *291600437-0197*	Mailroom, Roof Bldg 1 Ext Window Caulk - Win Caulk-Gray	Gray Fibrous Heterogeneous	5% Cellulose 2% Wollastonite	93% Non-fibrous (Other)	<1% Chrysotile
M-R8b *291600437-0198*	Mailroom, Roof Bldg 1 Ext Window Caulk - Win Caulk-Gray	Gray/Beige Fibrous Heterogeneous	5% Cellulose 2% Wollastonite	93% Non-fibrous (Other)	<1% Chrysotile
M-R9a *291600437-0199*	Mailroom, Roof, Bldg 1 Ext Window Glazing - Win Glazing, Gray/Wte	White/Beige Fibrous Heterogeneous	2% Cellulose 2% Wollastonite	96% Non-fibrous (Other)	None Detected
M-R9b *291600437-0200*	Mailroom, Roof, Bldg 1 Ext Window Glazing - Win Glazing, Gray/Wte	Gray/White/Beige Fibrous Homogeneous	5% Cellulose 2% Wollastonite	93% Non-fibrous (Other)	None Detected
6-13A *291600437-0201*	Bldg 6 Air Handler Room - Tar Barrier Below Wood Floor	Brown/Black Fibrous Heterogeneous	5% Cellulose 20% Glass	75% Non-fibrous (Other)	None Detected
6-13B *291600437-0202*	Bldg 6 Air Handler Room - Tar Barrier Below Wood Floor	Brown/Black Fibrous Heterogeneous	5% Cellulose 15% Glass	80% Non-fibrous (Other)	None Detected

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**

Analyst(s)

Billy Barnes (84)
Essie Spencer (113)
Joshua Moorman (33)

Essie Spencer, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

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Received:	01/21/16 9:03 AM
Analysis Date:	2/2/2016
Collected:	1/20/2016

Project: **1259A**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-22A *291600398-0062*	3rd Floor, Bldg 1, Mech Rm - Mud Fitting	Gray/Tan Fibrous Homogeneous		97.50% Non-fibrous (other)	**2.50% Chrysotile**
1-22B *291600398-0063*	3rd Floor, Hall Above Ceiling - Mud Fitting	Gray/Beige Fibrous Homogeneous		95.75% Non-fibrous (other)	**4.25% Chrysotile**

Analyst(s)

Joshua Moorman (2)

Essie Spencer, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

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Analysis Date:	2/3/2016
Collected:	1/21/2016

Project: **1259A**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-64A *291600437-0006*	Bldg 1 Basement Photo Lab - Mud Fitting on Air Cell	Brown/White Fibrous Homogeneous		94.50% Non-fibrous (other)	**5.50% Chrysotile**
1-64B *291600437-0007*	Bldg 1 Basement Photo Lab - Mud Fitting on Air Cell	White Fibrous Homogeneous		96.75% Non-fibrous (other)	**3.25% Chrysotile**

Analyst(s)
Billy Barnes (2)

Essie Spencer, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

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Analysis Date:	2/3/2016
Collected:	1/21/2016

Project: **1259A**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
1-73A *291600437-0027*	Bldg 1 Exterior N Side - Water Proofing Patch	Brown/Black Fibrous Homogeneous	63.8	2.3		32.2 Non-fibrous (other)	1.7 Chrysotile
1-73B *291600437-0028*	Bldg 1 Exterior N Side - Water Proofing Patch	Black Fibrous Homogeneous	66.0	6.2		25.3 Non-fibrous (other)	2.6 Chrysotile
2-3A-Floor Tile *291600437-0051*	Bldg 2 3rd Fl Small Office - 12x12 FT Black Mastic	Gray Fibrous Homogeneous	18.2	51.3		30.1 Non-fibrous (other)	0.5 Chrysotile
2-3A-Mastic *291600437-0051A*	Bldg 2 3rd Fl Small Office - 12x12 FT Black Mastic	Tan/Black Fibrous Homogeneous	16.9	59.1		23.5 Non-fibrous (other)	0.5 Chrysotile
2-3B-Floor Tile *291600437-0052*	Bldg 2 3rd Fl Small Office - 12x12 FT Black Mastic	Gray Fibrous Homogeneous	17.8	58.2		22.1 Non-fibrous (other)	1.9 Chrysotile
2-3B-Mastic *291600437-0052A*	Bldg 2 3rd Fl Small Office	Black Fibrous Homogeneous	18.8	52.7		26.6 Non-fibrous (other)	1.9 Chrysotile

Analyst(s)
Billy Barnes (18)
Joshua Moorman (9)

Essie Spencer, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

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Received:	01/25/16 8:30 AM
Analysis Date:	2/3/2016
Collected:	1/21/2016

Project: **1259A**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
2-6A-Floor Tile *291600437-0057*	Bldg 2 3rd Fl Mech Rm - 12x12 FT Black Mastic	Gray Fibrous Homogeneous	21.9	22.0		53.6 Non-fibrous (other)	2.5 Chrysotile
2-6A-Mastic *291600437-0057A*	Bldg 2 3rd Fl Mech Rm - 12x12 FT Black Mastic	Tan/Black Fibrous Homogeneous	22.3	40.7		35.2 Non-fibrous (other)	1.8 Chrysotile
2-6B-Floor Tile *291600437-0058*	Bldg 2 3rd Fl Mech Rm - 12x12 FT Black Mastic	Gray Fibrous Homogeneous	20.8	43.0		34.8 Non-fibrous (other)	1.4 Chrysotile
2-6B-Mastic *291600437-0058A*	Bldg 2 3rd Fl Mech Rm	Black Fibrous Homogeneous	19.8	58.3	0.4 Cellulose	20.1 Non-fibrous (other)	1.4 Chrysotile
2-13A-Floor Tile *291600437-0075*	Abandoned Stairwell 3rd Fl Bldg 2 - 9x9 FT Black Mastic	Beige Fibrous Homogeneous	22.7	10.8		60.5 Non-fibrous (other)	6.0 Chrysotile
2-13A-Mastic *291600437-0075A*	Abandoned Stairwell 3rd Fl Bldg 2 - 9x9 FT Black Mastic	Black Fibrous Homogeneous	22.1	18.5		50.7 Non-fibrous (other)	8.6 Chrysotile

Analyst(s)
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Joshua Moorman (9)

Essie Spencer, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

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Collected:	1/21/2016

Project: **1259A**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
2-13B-Floor Tile *291600437-0076*	Abandoned Stairwell 3rd Fl Bldg 2 - 9x9 FT Black Mastic	Gray Fibrous Homogeneous	24.9	21.3		46.5 Non-fibrous (other)	7.3 Chrysotile
2-13B-Mastic *291600437-0076A*	Abandoned Stairwell 3rd Fl Bldg 2	Black Fibrous Homogeneous	24.4	5.6		58.2 Non-fibrous (other)	11.8 Chrysotile
2-15A-Floor Tile *291600437-0079*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic	White Fibrous Homogeneous	14.1	79.9		6.0 Non-fibrous (other)	<0.25 Chrysotile
2-15A-Mastic *291600437-0079A*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic	Black Fibrous Homogeneous	16.5	76.1		6.3 Non-fibrous (other)	1.1 Chrysotile
2-15B-Floor Tile *291600437-0080*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic	White Fibrous Homogeneous	13.1	75.7		11.2 Non-fibrous (other)	<0.25 Chrysotile
2-15B-Mastic *291600437-0080A*	Bldg 2 Lunch Rm & Hall - White 12x12 FT Black Mastic	Black Fibrous Homogeneous	14.7	78.2		6.0 Non-fibrous (other)	1.1 Chrysotile

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Essie Spencer, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial report from 02/03/2016 18:57:02

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EMSL Order:	291600437
CustomerID:	ATLS78
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ProjectID:	

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Received:	01/25/16 8:30 AM
Analysis Date:	2/3/2016
Collected:	1/21/2016

Project: **1259A**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
2-20A-Mastic *291600437-0090A*	Bldg 2 3rd Fl IT - Tile Under Carpet & Black Mastic	Black Fibrous Homogeneous	28.9	51.8		17.0 Non-fibrous (other)	2.3 Chrysotile
2-20B-Mastic *291600437-0091A*	Bldg 2 3rd Fl IT - Tile Under Carpet & Black Mastic	Black Fibrous Homogeneous	28.8	61.3		9.0 Non-fibrous (other)	0.9 Chrysotile
3-5A-Floor Tile *291600437-0106*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	White Fibrous Homogeneous	25.5	27.9		44.5 Non-fibrous (other)	2.1 Chrysotile
3-5A-Mastic *291600437-0106A*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	Black Fibrous Homogeneous	62.2	26.7		10.8 Non-fibrous (other)	0.3 Chrysotile
3-5B-Floor Tile *291600437-0107*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	White Fibrous Homogeneous	22.9	28.8		45.3 Non-fibrous (other)	2.9 Chrysotile
3-5B-Mastic *291600437-0107A*	Bldg 3 1st Fl Hall - 12x12 White Tile Black Mastic	Tan/Black Fibrous Homogeneous	46.3	41.2		12.5 Non-fibrous (other)	<0.25 Chrysotile

Analyst(s)
Billy Barnes (18)
Joshua Moorman (9)

Essie Spencer, Laboratory Manager
or other approved signatory

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Project: **1259A**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
PO4A *291600437-0163*	PO Bldg - Interior Window Glazing	White/Black Fibrous Homogeneous	45.2	29.1		23.1 Non-fibrous (other)	2.6 Chrysotile
PO4B *291600437-0164*	PO Bldg - Interior Window Glazing	White/Black Fibrous Homogeneous	42.0	30.9		24.9 Non-fibrous (other)	2.2 Chrysotile
6-7A-Mastic *291600437-0178A*	Bldg 6 2nd Fl Shop - White Tile w/ Black Mastic Under 6A/6B	Brown/Black Fibrous Homogeneous	20.8	53.1		26.1 Non-fibrous (other)	<0.25 Chrysotile

Analyst(s)
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Joshua Moorman (9)

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or other approved signatory

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Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
1-12A-Mastic *291600398-0029A*	3rd Floor, Bldg 1 - 12x12 FT Patch	Black Fibrous Homogeneous	55.7	31.3		12.4 Non-fibrous (other)	0.7 Chrysotile
1-12B-Mastic *291600398-0030A*	3rd Floor, Bldg 1 - 12x12 FT Patch, Top Layer at This Location See 14B	Tan Fibrous Homogeneous	15.8	23.1		59.7 Non-fibrous (other)	1.4 Chrysotile
1-23A-Mastic *291600398-0064A*	2nd Floor, Bldg 1, Main Bldg - 12x12 FT	Black Fibrous Homogeneous	31.6	43.4		24.4 Non-fibrous (other)	0.6 Chrysotile
1-23B-Mastic *291600398-0065A*	2nd Floor, Bldg 1, Main Bldg - 12x12 FT	Black Fibrous Homogeneous	44.3	34.3		20.5 Non-fibrous (other)	0.9 Chrysotile
1-24A-Floor Tile *291600398-0066*	2nd Floor, Bldg 1, Main Bldg - Tile Under #1-23	Brown Fibrous Homogeneous	23.2	14.6		58.3 Non-fibrous (other)	3.9 Chrysotile
1-24A-Mastic *291600398-0066A*	2nd Floor, Bldg 1, Main Bldg - Tile Under #1-23	Black Fibrous Homogeneous	35.2	22.5		40.4 Non-fibrous (other)	1.8 Chrysotile
1-24B-Floor Tile *291600398-0067*	2nd Floor, Bldg 1, Main Bldg - Tile Under #1-23	Brown/Black Fibrous Homogeneous	25.4	13.6		58.9 Non-fibrous (other)	2.1 Chrysotile

Analyst(s)
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Joshua Moorman (16)

Essie Spencer, Laboratory Manager
or other approved signatory

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SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
1-24B-Mastic *291600398-0067A*	2nd Floor, Bldg 1, Main Bldg	Brown/Black Fibrous Homogeneous	36.7	25.6		34.3 Non-fibrous (other)	3.5 Chrysotile
1-25A-Mastic *291600398-0068A*	2nd Floor, Bldg 1, Main Bldg - Tile Under #24	Black Fibrous Homogeneous	58.3	14.1		26.2 Non-fibrous (other)	1.4 Chrysotile
1-25B-Mastic *291600398-0069A*	2nd Floor, Bldg 1, Main Bldg - Tile Under #24	Black Fibrous Homogeneous	26.0	28.9		43.2 Non-fibrous (other)	1.9 Chrysotile
1-27A-Mastic *291600398-0072A*	2nd Floor, Bldg 1, Main Bldg - Small Patch	Brown/Black Fibrous Homogeneous	19.4	75.8		4.8 Non-fibrous (other)	<0.25 Chrysotile
1-29A-Mastic *291600398-0076A*	2nd Floor, Hall, Main Bldg - Tile Below 1-29 Black Mastic	Black/Beige Fibrous Homogeneous	60.4	32.7		6.6 Non-fibrous (other)	0.3 Chrysotile
1-29B-Mastic *291600398-0077A*	2nd Floor, Hall, Main Bldg - Tile Below 1-29 Black Mastic	Black Fibrous Homogeneous	78.3	20.2		1.5 Non-fibrous (other)	<0.25 Chrysotile
1-42A-Floor Tile *291600398-0101*	Nurses Office, 1st Floor, Main Bldg - Tile Under Carpet	Tan/White Fibrous Homogeneous	27.3	27.3		41.8 Non-fibrous (other)	3.5 Chrysotile

Analyst(s)
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SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
1-42B-Floor Tile *291600398-0102*	Nurses Office, 1st Floor, Main Bldg - Tile Under Carpet	Tan Fibrous Homogeneous	22.9	26.2		46.7 Non-fibrous (other)	4.2 Chrysotile
1-51A-Floor Tile *291600398-0119*	1st Floor, FT Under Carpet - 1st Layer FT	White Fibrous Homogeneous	20.1	63.7		15.6 Non-fibrous (other)	0.7 Chrysotile
1-51A-Mastic *291600398-0119A*	1st Floor, FT Under Carpet - 1st Layer FT	Brown/Black Fibrous Homogeneous	64.7	30.2		5.1 Non-fibrous (other)	<0.25 Chrysotile
1-51B-Floor Tile *291600398-0120*	1st Floor, FT Under Carpet - 2nd Layer Under	Brown/Black Fibrous Homogeneous	25.4	61.0		12.4 Non-fibrous (other)	1.2 Chrysotile
1-51B-Mastic *291600398-0120A*	1st Floor, FT Under Carpet - 2nd Layer Under	Brown/Tan Fibrous Homogeneous	20.9	40.9		33.8 Non-fibrous (other)	4.4 Chrysotile
1-52A-Mastic *291600398-0121A*	1st Floor FT, Hall in Cubes, 1st Layer - 1st Layer FT	Brown/Black Fibrous Homogeneous	43.3	39.6		16.7 Non-fibrous (other)	0.4 Chrysotile
1-52B-Mastic *291600398-0122A*	1st Floor, FT Under Carpet - FT	Brown/Black Fibrous Homogeneous	26.5	35.2		33.3 Non-fibrous (other)	5.0 Chrysotile

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SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
2-R1 *291600398-0157*	Bldg 2, Roof, Window Caulk - Gray/White	Gray Fibrous Homogeneous	28.3	55.8		13.6 Non-fibrous (other)	2.4 Chrysotile
2-R2 *291600398-0158*	Bldg 2, Roof, Window Caulk - Gray/White	Gray Fibrous Homogeneous	15.6	62.6		19.6 Non-fibrous (other)	2.2 Chrysotile
2-R3 *291600398-0159*	Bldg 2, Roof, Window Glazing - Gray/White	Gray/White Fibrous Homogeneous	2.7	90.8		5.8 Non-fibrous (other)	0.7 Chrysotile
2-R4 *291600398-0160*	Bldg 2, Roof, Window Glazing - Gray/White	Gray Fibrous Homogeneous	2.1	90.8		6.5 Non-fibrous (other)	0.5 Chrysotile

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