



REPORT OF ASBESTOS-CONTAINING MATERIALS SURVEY

**FORMER ROBINSON TERMINAL SOUTH
2 DUKE STREET & 226 STRAND STREET
ALEXANDRIA, VA**

ECS PROJECT NO. 01:21983-F

FOR

EYA

DECEMBER 16, 2015



December 16, 2015

Mr. Christopher Seveney
EYA
4800 Hampden Lane, Suite 300
Bethesda, Maryland 20814
cseveney@eya.com

ECS Project No. 01:21983-F

Reference: Report for Asbestos-Containing Materials Survey – Additional Sampling,
Former Robinson Terminal South, 2 Duke Street and 226 Strand Street,
Alexandria, Virginia

Dear Mr. Seveney:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide EYA with the results of the above referenced Asbestos-Containing Materials Survey – Additional Sampling. This work was performed in general conformance with ECS Proposal No. 01:51237-EPR1, dated October 16, 2015. The following is a summary of results of the above referenced work performed onsite December 1st and 7th, 2015 at 2 Duke Street and 226 Strand Street in Alexandria, Virginia.

ECS appreciates this opportunity to be a part of your project team. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID-ATLANTIC, LLC

Beverly E. Sedon
Senior Environmental Project Manager

Stephen R. Geraci
Environmental Department Manager

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EXECUTIVE SUMMARY

The subject property consists of the former Robinson Terminal South warehouses and office structure located at 2 Duke Street and a former marine shop located at 226 Strand Street in Alexandria, Virginia. ECS has previously performed a Hazardous Containing Materials Survey for the structures on the property, ECS Project No. 01:21983-B, dated October 4, 2013. ECS was also provided with a former survey performed by WSP Environmental and Energy, dated March 5, 2013 for the Robinson Terminal buildings. Information from the former reports was utilized during this current assessment. The buildings were occupied at the time of the survey and limitations to materials accessed were reported. Therefore, ECS was requested to provide additional sampling for asbestos-containing materials now that the property has been vacated.

The purpose of this survey was to evaluate additional materials in areas reported as inaccessible for asbestos within buildings. Destructive means were utilized to expose select interior walls and exterior perimeter walls and observations were made beneath wood flooring, carpeting, and wall panel materials. The roofs of the buildings were also included in this assessment.

During the survey, 149 bulk suspect asbestos samples were collected in which 174 individual layers were analyzed by the laboratory. The following materials were reported as asbestos-containing for the two-story office building: floor tiles and associated mastics; black mastic on radiators; roof flashing and associated black tar (cements); black/silver tar (cement) on the roof vents; and residual black tar on the exterior brick from a former roof.

The following materials were reported as asbestos-containing from the warehouse structures:

- Interior and exterior white window glazing;
- Silver paint on the roofs;
- Residual black tar on the brick of the pump structure;
- Exterior subgrade waterproofing sealant;
- Black mastic within brick perimeter walls;
- Silver/black coating on rooftop tank structures;
- Exterior white caulk on rooftop tank structures;
- Black roof tar on HVAC pitch pockets;
- Roofing membranes; and
- Gray sealants on roof vent stacks.

The following materials were reported as asbestos containing from the welding shop:

- Exterior gray door caulk;
- Black cement on roof coping; and
- Gray caulk on flashing.

The following materials were reported as asbestos containing from the marine shop:

- Interior white window caulk;
- Roofing pitch;
- Black/gray sealant on roof flashing;
- Silver/black coating on the roof vent pipes; and
- Black roof tar of the roof vents and roofing seams.

Materials previously reported as asbestos-containing by ECS and others for the structures are further referenced in this report. Recommendations for the identified asbestos-containing materials are provided further in the report.

SITE DESCRIPTION

The subject property consists of the former Robinson Terminal South office and warehouse structures as well as a welding shop and small dock booth located at 2 Duke Street in Alexandria, Virginia and a former marine shop located at 226 Strand Street. The main office building was reportedly constructed in the late 1890's. The warehouse structures, welding shop, and marine shop are proposed for demolition. The main office structure is proposed for renovations. The warehouses are identified as Warehouses 1, 2, 4, 6, 7, and 8 based on previous report labeling.

The purpose of this survey was to evaluate additional materials in areas reported as inaccessible for asbestos within buildings. Access openings were made for select interior walls and exterior perimeter walls, and observations were made beneath carpeting and wall panel materials. The roofs of the buildings were also included in this assessment.

During the survey, ECS attempted to locate suspect asbestos-containing building materials (ACBMs) in readily accessible areas and within opened wall and floor cavities. However, due to the destructive means required to access some materials, certain areas may have been deemed inaccessible (i.e. behind solid walls or sub-grade materials) and were not surveyed for suspect ACBMs. Unidentified suspect asbestos-containing materials (ACMs) may be located in these and/or other inaccessible areas.

METHODS AND RESULTS

Asbestos-Containing Materials

The asbestos survey was performed by a Commonwealth of Virginia licensed asbestos inspectors who have received EPA compliant training. Samples of suspect asbestos-containing materials (ACMs) were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were sent to Scientific Analytical Institute, Inc. (SAI) Greensboro, North Carolina for analysis via Polarized Light Microscopy in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis.

Samples were collected in general accordance with US EPA NESHAP Regulations (40 CFR 61 Subpart m) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos,

regardless of additional analysis. In total, 149 bulk representative samples were submitted to the laboratory of which 174 layers were analyzed.

ACM is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. A friable ACM is defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. A non-friable ACM is defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Category I non-friable ACMs include: packing, gaskets, resilient floor coverings and asphalt roofing products containing more than one percent (>1%) asbestos. Category II non-friable ACMs are any non-friable material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Table 1 below summarizes the materials reported to contain asbestos during this current assessment. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos containing are also attached to this report.

**TABLE 1
 ASBESTOS-CONTAINING MATERIALS SUMMARY**

| <u>General Location</u> | <u>Material</u> | <u>Friability</u> |
|---|--|-------------------------|
| Office Building – 1 st and 2 nd Floor Levels, beneath carpeting and 12" x 12" floor tiles | 9" x 9" Tan Floor Tile and associated Black Mastic | Category I Non-Friable |
| Office Building – 2 nd FL NE Office | 9" x 9" Black Floor Tile (Trim) | Category I Non-Friable |
| Office Building – 2 nd FL Rear Hall/Offices | 12" x 12" White Feathered Floor Tile | Category I Non-Friable |
| Office Building – Radiators and associated covers | Black Mastic on Radiator | Category II Non-Friable |
| Office Building – Kitchen Flooring | Black Mastic of Off-White Sheet Flooring | Category I Non-Friable |
| Office Building – Front Roof | Asphalt Roof Flashing | Category I Non-Friable |

**TABLE 1
 ASBESTOS-CONTAINING MATERIALS SUMMARY**

| <u>General Location</u> | <u>Material</u> | <u>Friability</u> |
|--|--|----------------------------|
| Office Building – Front Roof | Black Tar on Roof Flashing | Category I Non-Friable |
| Office Building Roof | Black/Silver Tar (Cement) on Roof Vents | Category I Non-Friable |
| Office Building – Rear Roof (Inside Warehouse) | Residual Black Roof Tar on Brick Facade | Category I Non-Friable |
| Warehouse 1 – Roof | Silver Roof Paint (Coating) | Category I Non-Friable |
| Warehouse 2 – Roof | Black Middle Roof Membrane | Category I Non-Friable |
| Warehouse 2 – Interior Upper Windows | Interior White Window Glazing | Friable (Damaged) |
| Warehouse 4 - Roof Tank Structures | Silver Paint Coating on Roof Structure | Category II Non-Friable |
| Warehouse 4 – Roof Tank Structure | White Caulk on Structure (Painted Silver) | Category II Non-Friable |
| Warehouse 4 – Roof Vents | Gray Sealant on Roof Vents | Category II Non-Friable |
| Warehouse 4 – Roof, HVAC Pitch Pockets | Black Roof Tar on HVAC Pitch Pockets | Category I Non-Friable |
| Warehouse 4 – Exterior Foundation | Black Subgrade Foundation Waterproofing Membrane | Category II Non-Friable |
| Warehouse 4 – Exterior Brick Walls at Sprinkler Room | Black Mastic inside Brick Walls | Category II Non-Friable |
| Warehouse 6 – Small Pump Structure Roof (Inside Warehouse) | Residual Black Roof Tar on Brick Facade | Category I Non-Friable |
| Warehouse 7 –Interior Upper Windows | Interior White Window Glazing | Friable (Damaged) |

**TABLE 1
 ASBESTOS-CONTAINING MATERIALS SUMMARY**

| <u>General Location</u> | <u>Material</u> | <u>Friability</u> |
|--------------------------------------|---|--------------------------|
| Warehouse 8 – Exterior Upper Windows | Exterior White Window Glazing | Friable (Damaged) |
| Welding Shop | Exterior Gray Door Caulk | Category II Non-Friable |
| Welding Shop | Black Roof Cement on Coping | Category I Non-Friable |
| Welding Shop | Gray Caulk on Flashing | Category II Non-Friable |
| Marine Shop | Interior White Window Caulk | Category II Non-Friable |
| Marine Shop – Roof | Bottom Pitch Roof Layer | Category I Non-Friable |
| Marine Shop – Roof | Black/Gray Sealant on Flashing | Category II Non-Friable |
| Marine Shop – Roof | Silver/Black Roof Tar on Roof Vent Pipes | Category I Non-Friable |
| Marine Shop – Roof | Black Roof Tar on Vent Pipes and Roof Seams | Category II Non-Friable |

The asbestos containing floor tiles and associated mastics were observed beneath carpeting and layered floor tiles throughout the 1st and 2nd floor levels of the office building. Additionally, 12" x 12" white floor tiles on the 2nd floor rear hallway and offices of the office building were also detected as asbestos containing. Black asbestos containing floor mastics were also detected in the kitchen area of the office building associated with the off-white sheet flooring.

The asbestos-containing black mastic on the radiators in the Office Building was observed inside the wood panels and on the radiators. Additional black mastic may be associated with the wall mounted fan coil units and radiators that are built into the walls.

The roof flashing, black tar on the flashing, and black/silver tar on the roof vents of the main office building were detected as asbestos containing. Residual black tar on the brick façade from a former roof (porch-like) was detected to contain asbestos on the main office building and also on the small pump structure located in Warehouse 6.

Interior and exterior white window glazing associated with the warehouse interior and exterior windows were detected to contain asbestos. Although a few samples were reported as non-detect, the material is not distinguishable from one window to another among the warehouses. Most of glazing was observed to be significantly damaged with asbestos containing debris on the floor or window sills. Therefore, this material is considered friable.

The metal roof of Warehouses 1 was coated with asbestos-containing silver paint (coating). A similar coating with a black tar underlayment was also detected as asbestos-containing on the tank structures and equipment on the roof of Warehouse 4. The flat roof section of Warehouse 1 was inaccessible due to power lines. This roof was observed to also be coated with the silver asbestos paint.

The exterior black subgrade waterproofing sealant was observed along the perimeter walls of Warehouse 4 and contains asbestos. The white caulk on the tank structures was also reported as asbestos containing. The caulk and adjoining surfaces of the roof structures were coated with the silver asbestos paint. The black roof tar on the HVAC pitch pockets and the gray roof vent sealants at Warehouse 4 roof were also reported as asbestos containing. The black mastic within the brick layered façade along the perimeter wall at the Sprinkler room of Warehouse 4 was detected to contain asbestos. The roofing middle layer membrane at Warehouse 2 was reported as asbestos containing.

At the welding shop building the following materials were reported as asbestos-containing: exterior gray door caulk, black roof cement on the coping, and gray caulk on the flashing.

At the marine shop the interior window caulk at the front windows was detected to contain asbestos. Roofing materials at the marine shop were reported asbestos containing and included: the bottom roof pitch layer, black/gray sealant on the flashing, silver coated black tar on the roof vent pipes, and the black tar on the roof vents and the roof seams.

ECS recommends where a material type has been identified as asbestos containing that all similar type materials throughout the building's interior and exterior be assumed to contain asbestos. The asbestos-containing floor tiles and associated mastics may be present under furniture, shelves, cabinets, partition walls, etc.

Previously Reported Asbestos-Containing Materials

ECS has previously performed a Hazardous Containing Material survey for the subject buildings in the past (ECS Project No. 01:21983-B, dated October 4, 2013). Based on the findings of this report, the following materials were reported as asbestos containing:

- Main Office Building - White Vibration Cloth on HVAC Equipment in the Boiler Room
- Main Office Building – White Thermal System Pipe Insulation in the Storage Room and Above Hard Ceilings

- Main Office Building – White Thermal System Pipe Fittings in the Storage Room and Above Hard Ceilings

During the above referenced survey from 2013, ECS was requested to utilize the findings from a survey performed by WSP Environmental and Energy, report dated March 5, 2015. WSPs survey included the main office building and warehouse structures only. Based on the findings of this report, the following materials were reported as asbestos containing:

- Main Office Building – 9" x 9" Red/Brown Floor Tile and associated Mastic – 2nd FL
- Main Office Building – 9" x 9" Maroon Floor Tile and associated Mastic – 2nd FL
- Main Office Building – 12" x 12" White Floor Tile with Brown Streaks – Mechanical Room
- Main Office Building – Floor Tile beneath Carpeting in the 2nd Floor Men's Restroom
- Welding Shop – Window Glazing

The materials above have previously been reported as asbestos containing, similar type materials throughout the building's interior and exterior should be assumed to contain asbestos

Materials Assumed to Contain Asbestos

ECS attempted to perform invasive sampling for the structures. Openings were made in the perimeter exterior walls, interior wood flooring, drywall wallboards, accessible pipe chases, and ceiling areas. Materials in several areas had already been opened by others and allowed access for viewing such pulled up carpeting and opened ceiling cavities.

However, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, vapor barriers, etc. were deemed inaccessible and were not assessed.

Access to the flat roof of Warehouse 1 was inaccessible due to overhead electrical power lines. This roof was observed to have similar silver asbestos coating and therefore should be assumed as asbestos containing. Roof sealants on Warehouse 1 were also inaccessible due to the pitch of the roof and height of the roof; the sealants are coated with asbestos silver paint and should be assumed as asbestos containing.

Additionally due to the hazard posed by accessing the core of asbestos-containing fire doors, fire doors were not surveyed to determine the presence of asbestos. Fire doors, both metal and wood, should be assumed to contain asbestos.

If additional materials beyond those referenced in this report are discovered during renovations they should be presumed to contain asbestos and be treated as asbestos-containing materials (ACMs) or, otherwise, sampled immediately upon discovery and prior to

disturbance for asbestos content by a Commonwealth of Virginia licensed asbestos inspector in accordance with 29 CFR 1926.1101.

RECOMMENDATIONS

The asbestos-containing materials identified on the subject property consist of friable (i.e., able to be crumbled, pulverized, and/or reduced to powder by hand pressure when dry) and non-friable materials which contain greater than one percent (> 1%) asbestos. By definition, these materials are considered ACMs. Friable materials will easily produce airborne asbestos fibers if disturbed. Non-Friable materials may also produce airborne asbestos fibers if disturbed.

Federal and local regulations require asbestos-containing materials be removed prior to disturbance by either renovations or demolishing the building. ECS recommends the identified asbestos-containing materials and any assumed asbestos-containing materials found to be present within the building be removed by a Commonwealth of Virginia licensed asbestos abatement contractor prior to disturbance by any planned renovation/demolition. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs), notification may be required by either by Virginia and/or the EPA. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities.

If asbestos-containing materials are to be removed, it is recommended that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project. This involves collecting air samples from within and outside abatement work areas to review the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with project specifications, Commonwealth of Virginia and local regulations (for asbestos) as well as EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction which, in part, requires the contractor to perform personal exposure monitoring for all workers abating and disposing of asbestos containing materials.

The project monitor should assess each work area and monitor the removal of asbestos-containing materials. Only after the monitor has determined the identified ACMs have been removed should final clearance air samples be collected. ECS can provide these services for an additional fee is requested.

Suspect asbestos containing materials not observed due to inaccessibility or not sampled due to the destructive means that sampling requires during the survey may be encountered during renovation activities. At the time of the survey, destructive means were not used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, areas behind walls, pipe chases, vapor barriers, etc. were deemed inaccessible and were not assessed. If additional suspect asbestos-containing materials are uncovered during renovation activities which were not accessible during this survey, it is recommended that these materials be sampled immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

ECS recommends that a project specification be developed to delineate and quantify known and suspect asbestos-containing materials in the building and to outline proper procedures for the abatement. This will help protect the owner's liability in better defining the scope of work and contractors' roles and responsibilities in the abatement process and holding the contractor accountable for the performance of the project. The specification typically defines the Contractor's scope of work and outline requirements and procedures that must be followed for this project. The intent of the specification is to give performance requirements for the Contractor so that the project can be completed safely and in compliance with applicable federal and state regulations. Typically, the specification document serves as part of the site owner's contract with the contractor.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and

related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

**TABLE 2 – BULK SAMPLING OF SUSPECT
ASBESTOS-CONTAINING MATERIALS**

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|------------------------------------|---|---------------------------|
| 16 - A | Office Bldg - 1st FL Conf Rm | 9"x 9" Tan Floor Tile | Asbestos - 6% Chrysotile |
| 16 - B | Office Bldg - 1st FL Conf Rm | Black Mastic of 9"x 9" Tan Floor Tile | Asbestos - 10% Chrysotile |
| 17 - A | Office Bldg - 1st FL Conf Rm | 9"x 9" Tan Floor Tile | Not Analyzed |
| 17 - B | Office Bldg - 1st FL Conf Rm | Black Mastic of 9"x 9" Tan Floor Tile | Not Analyzed |
| 18 | Office Bldg - 1st FL Conf Rm | Black Mastic on Radiator | Asbestos - 8% Chrysotile |
| 19 | Office Bldg - 1st FL Conf Rm | Black Mastic on Radiator | Not Analyzed |
| 20 - A | Office Bldg - Kitchen | Off-White Sheet Flooring | None Detected |
| 20 - B | Office Bldg - Kitchen | Mastic of Off-White Sheet Flooring | Asbestos - 4% Chrysotile |
| 21 - A | Office Bldg - Kitchen | Off-White Sheet Flooring | None Detected |
| 21 - B | Office Bldg - Kitchen | Mastic of Off-White Sheet Flooring | Not Analyzed |
| 22 - A | Office Bldg - 1st Floor Women's | 16" x 16" Beige Floor Tile with Yellow Mastic | None Detected |
| 22 - B | Office Bldg - 1st Floor Women's | Yellow Mastic of 16" x 16" Beige Floor Tile | None Detected |
| 23 - A | Office Bldg - 1st Floor Women's | 16" x 16" Beige Floor Tile with Yellow Mastic | None Detected |
| 23 - B | Office Bldg - 1st Floor Women's | Yellow Mastic of 16" x 16" Beige Floor Tile | None Detected |
| 24 - A | Office Bldg - Front Roof | Front Roof Shingle | None Detected |
| 24 - B | Office Bldg - Front Roof | Front Roof Felt Paper | None Detected |
| 25 - A | Office Bldg - Front Roof | Front Roof Shingle | None Detected |
| 25 - B | Office Bldg - Front Roof | Front Roof Felt Paper | None Detected |

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

Bold - Asbestos Containing Materials

**TABLE 2
 BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|---|--|---------------------------------|
| 26 - A | Office Bldg - Rear Roof Inside Warehouse | Rear Roof Shingle | None Detected |
| 26 - B | Office Bldg - Rear Roof Inside Warehouse | Rear Roof Felt Paper | None Detected |
| 27 - A | Office Bldg - Rear Roof Inside Warehouse | Rear Roof Shingle | None Detected |
| 27 - B | Office Bldg - Rear Roof Inside Warehouse | Rear Roof Felt Paper | None Detected |
| 28 - A | Office Bldg - Front Roof | Flashing | Asbestos - 4% Chrysotile |
| 28 - B | Office Bldg - Front Roof | Black Tar on Flashing | Asbestos - 8% Chrysotile |
| 29 - A | Office Bldg - Front Roof | Flashing | Not Analyzed |
| 29 - B | Office Bldg - Front Roof | Black Tar on Flashing | Not Analyzed |
| 30 | Office Bldg - Roof | Black/Silver Tar on Roof Vent | Asbestos - 8% Chrysotile |
| 31 | Office Bldg - Roof | Black/Silver Tar on Roof Vent | Not Analyzed |
| 32 - A | Office Bldg - 2nd Floor Windows | Exterior White Window Caulk Layers | None Detected |
| 32 - B | Office Bldg - 2nd Floor Windows | Exterior White Window Caulk Layers | None Detected |
| 33 - A | Office Bldg - 2nd Floor Windows | Exterior White Window Caulk Layers | None Detected |
| 33 - B | Office Bldg - 2nd Floor Windows | Exterior White Window Caulk Layers | None Detected |
| 34 | Office Bldg - Rear Roof Inside Warehouse | Residual Exterior Black Tar on Brick of Former Roof | Asbestos - 8% Chrysotile |
| 35 | Office Bldg - Rear Roof Inside Warehouse | Residual Exterior Black Tar on Brick of Former Roof | Not Analyzed |
| 36 | Warehouse 8 Upper Windows | Interior Warehouse Window Glazing | None Detected |
| 37 | Warehouse 8 Upper Windows | Interior Warehouse Window Glazing | None Detected |

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|--------------------------------------|--|---------------------------------|
| 38 | Warehouse 2 Upper Windows | Interior Warehouse Window Glazing | Asbestos - 2% Chrysotile |
| 39 - A | Warehouse 2 Upper Windows | Interior Warehouse Window Glazing | Asbestos - 2% Chrysotile |
| 39 - B | Warehouse 2 Upper Windows | Brown Caulk on Window Glazing | None Detected |
| 40 - A | Warehouse 2 Upper Windows | Interior Warehouse Window Glazing | Asbestos - 2% Chrysotile |
| 40 - B | Warehouse 2 Upper Windows | Brown Caulk on Window Glazing | None Detected |
| 41 | Warehouse 1 Upper Windows | Interior Warehouse Window Glazing | None Detected |
| 42 | Warehouse 1 Upper Windows | Interior Warehouse Window Glazing | None Detected |
| 43 | Warehouse 7 Upper Windows | Interior Warehouse Window Glazing | Asbestos - 2% Chrysotile |
| 44 | Warehouse 1 Upper Steel Frames | Interior Silver Paint on Interior Structural Steel | None Detected |
| 45 | Warehouse 1 Upper Steel Frames | Interior Silver Paint on Interior Structural Steel | None Detected |
| 46 | Warehouse 1 | Exterior Silver Paint on Roof | Asbestos - 6% Chrysotile |
| 47 | Warehouse 1 | Exterior Silver Paint on Roof | Not Analyzed |
| 48 | Warehouse 6 Pump Bldg | Residual Tar on Brick (Former Roof) | Asbestos - 4% Chrysotile |
| 49 | Warehouse 6 Pump Bldg | Residual Tar on Brick (Former Roof) | Not Analyzed |
| 50 | Warehouse 1 West Wall | Exterior Subgrade Waterproofing Membrane | None Detected |
| 51 | Warehouse 1 West Wall | Exterior Subgrade Waterproofing Membrane | None Detected |
| 52 | Warehouse 8 | Exterior Black Door Sealant on Bay Door | None Detected |
| 53 | Warehouse 8 | Exterior Black Door Sealant on Bay Door | None Detected |

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Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|---|--|---------------------------------|
| 54 | Warehouse 6 | Exterior Gray Wall Compound on Conduit | None Detected |
| 55 | Warehouse 6 | Exterior Gray Wall Compound on Conduit | None Detected |
| 56 | Warehouse 6 | Interior Gray Wall Compound on Pipes | None Detected |
| 57 | Warehouse 6 | Interior Gray Wall Compound on Pipes | None Detected |
| 58 | Warehouse 4 | Exterior Subgrade Waterproofing Membrane | Asbestos - 6% Chrysotile |
| 59 | Warehouse 4 | Exterior Subgrade Waterproofing Membrane | Not Analyzed |
| 60 | Warehouse 4 Sprinkler Room | Black Mastic behind Brick Walls | Asbestos - 8% Chrysotile |
| 61 | Warehouse 4 Sprinkler Room | Black Mastic behind Brick Walls | Not Analyzed |
| 62 | Warehouse 4 Sprinkler Room | Black Insulation Paper with Foil in Wall Cavity on Fiberglass | None Detected |
| 63 | Warehouse 4 Sprinkler Room | Black Insulation Paper with Foil in Wall Cavity on Fiberglass | None Detected |
| 64 | Office Bldg - Beneath Stairwell on 1st Floor | Interior Brown Waterproofing | None Detected |
| 65 | Office Bldg - Beneath Stairwell on 1st Floor | Interior Brown Waterproofing | None Detected |
| 66 - A | Office Bldg - 2nd Floor NE Office | 9" x 9" Black Floor Tile | Asbestos - 6% Chrysotile |
| 66 - B | Office Bldg - 2nd Floor NE Office | Black Mastic of 9" x 9" Black Floor Tile with Felt | None Detected |
| 67 - A | Office Bldg - 2nd Floor NE Office | 9" x 9" Black Floor Tile | Not Analyzed |
| 67 - B | Office Bldg - 2nd Floor NE Office | Black Mastic of 9" x 9" Black Floor Tile with Felt | None Detected |
| 68 | Office Bldg - 2nd Floor NE Office | White Floor Compound | None Detected |
| 69 | Office Bldg - 2nd Floor NE Office | White Floor Compound | None Detected |

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|--|---|-----------------------------------|
| 70 - A | Office Bldg - 2nd Floor Center Hall | 12" x 12" Tan Floor Tile with Mottles | None Detected |
| 70 - B | Office Bldg - 2nd Floor Center Hall | Yellow Mastic of 12" x 12" Tan Floor Tile | None Detected |
| 71 - A | Office Bldg - 2nd Floor Center Hall | 12" x 12" Tan Floor Tile with Mottles | None Detected |
| 71 - B | Office Bldg - 2nd Floor Center Hall | Yellow Mastic of 12" x 12" Tan Floor Tile | None Detected |
| 72 - A | Office Bldg - 2nd Floor Rear Hall | 12" x 12" White Feathered Floor Tile | Asbestos - 2% Chrysotile |
| 72 - B | Office Bldg - 2nd Floor Rear Hall | Yellow Mastic of 12" x 12" White Feathered Floor Tile | None Detected |
| 73 - A | Office Bldg - 2nd Floor Rear Hall | 12" x 12" White Feathered Floor Tile | Not Analyzed |
| 73 - B | Office Bldg - 2nd Floor Rear Hall | Yellow Mastic of 12" x 12" White Feathered Floor Tile | None Detected |
| 74 | Office Bldg - 2nd Floor Rear Hall | Drywall Joint Compound | Drywall - NAD Joint Cmpd - NAD |
| 75 | Office Bldg - 2nd Floor Rear Hall | Drywall Joint Compound | Drywall - NAD Joint Cmpd - NAD |
| 76 | Office Bldg - 2nd Floor West Office | Interior White Window Compound on Sill | None Detected |
| 77 | Office Bldg - 2nd Floor West Office | Interior White Window Compound on Sill | None Detected |
| 78 | Office - Bldg - Men's Bathroom | Drywall Wallboard | None Detected |
| 79 | Office - Bldg - Men's Bathroom | Drywall Wallboard | None Detected |
| 80 | Office Bldg - 2nd FL SW Rear Office | Interior White Window Glazing on Metal Mullions | None Detected |
| 81 | Office Bldg - 2nd FL SW Rear Office | Interior White Window Glazing on Metal Mullions | None Detected |
| 84 - A | Welding Shop | 12" x 12" Blue Floor Tile | None Detected |
| 84 - B | Welding Shop | Brown Mastic of 12" x 12" Blue Floor Tile | None Detected |

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|--------------------------------------|---|-----------------------------------|
| 85 - A | Welding Shop | 12" x 12" Blue Floor Tile | None Detected |
| 85 - B | Welding Shop | Brown Mastic of 12" x 12" Blue Floor Tile | None Detected |
| 86 | Welding Shop | Exterior Gray Door Caulk | Asbestos - 2% Chrysotile |
| 87 | Welding Shop | Exterior Gray Door Caulk | Not Analyzed |
| 88 | Dock Booth | White Block Sheet Floor | None Detected |
| 89 | Dock Booth | White Block Sheet Floor | None Detected |
| 90 | Warehouse 4 Mezz. Office Level | Drywall Joint Compound | Drywall - NAD Joint Cmpd - NAD |
| 91 | Warehouse 4 Mezz. Office Level | Drywall Joint Compound | Drywall - NAD Joint Cmpd - NAD |
| 92 | Warehouse 4 Mezz. Office Level | Drywall Wallboard | None Detected |
| 93 | Warehouse 4 Mezz. Office Level | Drywall Wallboard | None Detected |
| 94 | Marine Shop - 2nd FL Mezz. Level | Black Tar Paper | None Detected |
| 95 | Marine Shop - 2nd FL Mezz. Level | Black Tar Paper | None Detected |
| 96 | Marine Shop - Rear Room | Brown Wall Plaster Coating (Single Layer) | None Detected |
| 97 | Marine Shop - Rear Room | Brown Wall Plaster Coating (Single Layer) | None Detected |
| 98 | Marine Shop - Rear Room | Brown Wall Plaster Coating (Single Layer) | None Detected |
| 99 | Marine Shop - Rear Room | Black Mastic on Brick in Wall Cavity | None Detected |
| 100 | Marine Shop - Rear Room | Black Mastic on Brick in Wall Cavity | None Detected |
| 101 | Marine Shop - Front Rooms | Interior Window Caulk | Asbestos - 2% Chrysotile |

Table Notes:
 NAD = No Asbestos Detected
 N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

**TABLE 2
 BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|------------------------|---------------------------------|--|----------------------------------|
| 102 | Marine Shop - Front Rooms | Interior Window Caulk | Not Analyzed |
| 103 | Marine Shop | Exterior Window Glazing | None Detected |
| 104 | Marine Shop | Exterior Window Glazing | None Detected |
| 105 | Marine Shop | Exterior Window Glazing | None Detected |
| 106 | Marine Shop | Exterior Silver Paint on Wall | None Detected |
| 107 | Marine Shop | Exterior Silver Paint on Wall | None Detected |
| 108 | Marine Shop | Exterior Gray Wall Caulk | None Detected |
| 109 | Marine Shop | Exterior Gray Wall Caulk | None Detected |
| 110 | Roof - Warehouse 4 | Silver Paint on Black Tar on Tank Structure | Asbestos - 5% Chrysotile |
| 111 | Roof - Warehouse 4 | Silver Paint on Black Tar on Tank Structure | Not Analyzed |
| 112 | Roof - Warehouse 4 | White Caulk on Tank Structure | Asbestos - 2% Chrysotile |
| 113 | Roof - Warehouse 4 | White Caulk on Tank Structure | Not Analyzed |
| 114 | Roof - Warehouse 4 | Roof -Top White Membrane | None Detected |
| 115 - A | Roof - Warehouse 4 | Roof - Black Felt | None Detected |
| 115 - B | Roof - Warehouse 4 | Roof - Brown Fiberboard | None Detected |
| 116 | Warehouse 8 | Exterior White Window Glaze | Asbestos - 3% Chrysotile |
| 117 | Warehouse 8 | Exterior White Window Glaze | Not Analyzed |
| 118 | Warehouse 8 | Black Tar Patch on Siding | None Detected |

Table Notes:
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 N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

**TABLE 2
 BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|---------------------------|--|----------------------------------|
| 119 | Warehouse 8 | Black Tar Patch on Siding | None Detected |
| 120 | Roof - Warehouse 4 | Black Tar on HVAC Pitch Pocket | Asbestos - 10% Chrysotile |
| 121 | Roof - Warehouse 4 | Black Tar on HVAC Pitch Pocket | Not Analyzed |
| 122 | Roof - Warehouse 6/7/8 | Roof -Top White Membrane | None Detected |
| 123 - A | Roof - Warehouse 6/7/8 | Roof - Black Felt | None Detected |
| 123 - B | Roof - Warehouse 6/7/8 | Roof - Brown Fiberboard | None Detected |
| 124 | Roof - Warehouse 2 | Roof - Top Black Membrane | None Detected |
| 125 | Roof - Warehouse 2 | Roof - Top Black Membrane | None Detected |
| 126 | Roof - Warehouse 2 | Roof - Black Membrane | Asbestos - 30% Chrysotile |
| 127 | Roof - Warehouse 2 | Roof - Black Membrane | Not Analyzed |
| 128 | Roof - Warehouse 2 | Roof - Fiberboard | None Detected |
| 129 | Roof - Warehouse 2 | Roof - Fiberboard | None Detected |
| 130 | Roof - Warehouse 6/7/8 | Roof - White Lap Sealant | None Detected |
| 131 | Roof - Warehouse 6/7/8 | Roof - White Lap Sealant | None Detected |
| 132 | Roof - Warehouse 4 | Roof - White Sealant on Vents | None Detected |
| 133 | Roof - Warehouse 4 | Roof - White Sealant on Vents | None Detected |
| 134 | Roof - Warehouse 4 | Roof - Gray Sealant on Vent Stack | Asbestos - 10% Chrysotile |
| 135 | Roof - Warehouse 4 | Roof - Gray Sealant on Vent Stack | Not Analyzed |

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

Bold - Asbestos Containing Materials

**TABLE 2
 BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|------------------------|---------------------------------|--|----------------------------------|
| 136 | Marine Shop | Roof - Top Asphalt Layer | None Detected |
| 137 | Marine Shop | Roof - Top Asphalt Layer | None Detected |
| 138 | Marine Shop | Roof - Middle Felt Layer | None Detected |
| 139 | Marine Shop | Roof - Middle Felt Layer | None Detected |
| 140 | Marine Shop | Roof - Fiberboard Layer | None Detected |
| 141 | Marine Shop | Roof - Fiberboard Layer | None Detected |
| 142 | Marine Shop | Roof - Bottom Tar Layer | Asbestos - 5% Chrysotile |
| 143 | Marine Shop | Roof - Bottom Tar Layer | Not Analyzed |
| 144 | Marine Shop | Black/Gray Sealant on Flashing | Asbestos - 10% Chrysotile |
| 145 | Marine Shop | Black/Gray Sealant on Flashing | Not Analyzed |
| 146 | Marine Shop | Lt. Gray Sealant on Flashing | None Detected |
| 147 | Marine Shop | Lt. Gray Sealant on Flashing | None Detected |
| 148 | Marine Shop | Silver Paint on Black Tar on Vent Pipes | Asbestos - 12% Chrysotile |
| 149 | Marine Shop | Silver Paint on Black Tar on Vent Pipes | Not Analyzed |
| 150 | Marine Shop | Black Tar on Vent/Roof Seams | Asbestos - 5% Chrysotile |
| 151 | Marine Shop | Black Tar on Vent/Roof Seams | Not Analyzed |
| 152 | Welding Shop | Roof - Top Black Membrane | None Detected |
| 153 | Welding Shop | Roof - Top Black Membrane | None Detected |

Table Notes:
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Bold - Asbestos Containing Materials

**TABLE 2
 BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

| <u>Sample #</u> | <u>Sampling Location</u> | <u>Material/Description</u> | <u>Analytical Results</u> |
|-----------------|--------------------------|---------------------------------|---------------------------------|
| 154 | Welding Shop | Roof - Fiberboard | None Detected |
| 155 | Welding Shop | Roof - Fiberboard | None Detected |
| 156 | Welding Shop | Roof - Bottom Felt Layer | None Detected |
| 157 | Welding Shop | Roof - Bottom Felt Layer | None Detected |
| 158 | Welding Shop | Black Caulk on Flashing/Chimney | None Detected |
| 159 | Welding Shop | Black Caulk on Flashing/Chimney | None Detected |
| 160 | Welding Shop | Black Cement on Coping | Asbestos - 2% Chrysotile |
| 161 | Welding Shop | Black Cement on Coping | Not Analyzed |
| 162 | Welding Shop | Gray Caulk on Flashing | Asbestos - 5% Chrysotile |
| 163 | Welding Shop | Gray Caulk on Flashing | Not Analyzed |
| 164 | Dock Booth | Black Roof Shingle | None Detected |
| 165 | Dock Booth | Black Roof Shingle | None Detected |

Table Notes:
 NAD = No Asbestos Detected
 N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

**ATTACHMENT
PHOTOGRAPHS**



1. View of the main office building at 2 Duke Street.



2. Office Bldg - View of the 9" x 9" tan floor tiles (ACM) with black mastic (ACM), Samples 16-17.



3. Office Bldg – View of the black mastic (ACM) on radiator, Samples 18-19.



4. Office Bldg – View of the black mastic (ACM) of the off-white sheet flooring in the kitchen, Samples 20-21.



5. Office Bldg – View of black tar (ACM) and flashing (ACM), Samples 28-29.



6. Office Bldg – View of the silver/black tar (ACM) on roof vent, Samples 30-31.

**Robinson Terminal
2 Duke Street & 226 Strand Street
Alexandria, Virginia**



**Site Photographs
ECS Project No. 01:21983-F
December 2015**



7. Office Bldg – View of the residual black tar (ACM) on the brick from former roof, Samples 34-35.



8. Office Bldg - View of the 9" x 9" black floor tiles (ACM), Samples 66-67.



9. Office Bldg - View of 12" x 12" white feathered floor tiles (ACM) located beneath the carpet, Samples 72-73.



10. Typical view of the upper interior windows in the warehouse with damaged asbestos containing glazing.



11. View of the damaged interior window glazing (ACM) in the warehouses.



12. View of the exterior windows of Warehouse 8 with asbestos containing glazing, Samples 116-117.

**Robinson Terminal
2 Duke Street & 226 Strand Street
Alexandria, Virginia**



**Site Photographs
ECS Project No. 01:21983-F
December 2015**



13. View of the main office building at 2 Duke Street.



14. Warehouse 1 – View of the silver paint (coating) (ACM) on the metal roof.



15. Warehouse 4 – View of the black subgrade waterproofing sealant (ACM), Samples 58-59.



16. View of the roof at Warehouse 4 with HVAC Equipment and tank structures.



17. Warehouse 4 – View of silver/black tar (ACM) and white caulk (ACM) on tank structure, Samples 110-114.



18. Warehouse 7 – View of black pitch pocket tar (ACM), Samples 120-121.

**Robinson Terminal
2 Duke Street & 226 Strand Street
Alexandria, Virginia**



**Site Photographs
ECS Project No. 01:21983-F
December 2015**



19. Warehouse 2 – View of the roof core, middle membrane (ACM), Samples 126-127.



20. Warehouse 4 – View of gray vent sealant (ACM), Samples 134-135.



21. Welding Shop – View of exterior gray door caulk (ACM), Samples 86-87.



22. Welding Shop – View of black cement on coping (ACM), Samples 160-161.



23. Welding Shop – View of gray caulk (ACM) on flashing, Samples 162-163.



24. Marine Shop – View of roofing pitch (ACM), Samples 142-143.

**Robinson Terminal
2 Duke Street & 226 Strand Street
Alexandria, Virginia**



**Site Photographs
ECS Project No. 01:21983-F
December 2015**



25. Marine Shop – View of black/gray sealant (ACM) on flashing, Samples 144-145.



26. Marine Shop – View of silver/black tar (ACM) on roof vents, Samples 148-149.



27. Marine Shop – View of interior white window caulk (ACM), Samples 101-102.



28. Warehouse 4 – View of black mastic on CMU blocks (ACM), Samples 60-61.



29. Warehouse 4 – View of exterior wall penetration.



30. Warehouse 1 – View of exterior wall penetration.

**Robinson Terminal
2 Duke Street & 226 Strand Street
Alexandria, Virginia**



**Site Photographs
ECS Project No. 01:21983-F
December 2015**

ATTACHMENT

LABORATORY RESULTS AND CHAINS OF CUSTODY



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---|----------------|--------------------|------------------------|---|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 16 - A | 9"x 9" Tan Floor Tile with Black Mastic | 6% Chrysotile | | 94% Other | Tan Non Fibrous Heterogeneous |
| 1523583PLM_1 | floor tile | | | | Dissolved |
| 16 - B | 9"x 9" Tan Floor Tile with Black Mastic | 10% Chrysotile | | 90% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_93 | mastic | | | | Dissolved |
| 17 - A | 9"x 9" Tan Floor Tile with Black Mastic | Not Analyzed | | | |
| 1523583PLM_2 | floor tile | | | | |
| 17 - B | 9"x 9" Tan Floor Tile with Black Mastic | Not Analyzed | | | |
| 1523583PLM_94 | mastic | | | | |
| 18 | Black Mastic on Radiator | 8% Chrysotile | | 92% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_3 | | | | | Dissolved |
| 19 | Black Mastic on Radiator | Not Analyzed | | | |
| 1523583PLM_4 | | | | | |
| 20 - A | Off-White Sheet Flooring | None Detected | 30% Cellulose | 70% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_5 | sheet flooring | | | | Teased |
| 20 - B | Off-White Sheet Flooring | 4% Chrysotile | | 96% Other | Black, Yellow Non Fibrous Heterogeneous |
| 1523583PLM_95 | mastic | | | | Dissolved |

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Byron Stroble (116)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---|---------------|--------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 21 - A | Off-White Sheet Flooring | None Detected | 30% Cellulose | 70% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_6 | sheet flooring | | | | Teased |
| 21 - B | Off-White Sheet Flooring | Not Analyzed | | | |
| 1523583PLM_96 | mastic | | | | |
| 22 - A | 16" x 16" Beige Floor Tile with Yellow Mastic | None Detected | | 100% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_7 | self stick tile | | | | Dissolved |
| 22 - B | 16" x 16" Beige Floor Tile with Yellow Mastic | None Detected | | 100% Other | Yellow Non Fibrous Heterogeneous |
| 1523583PLM_97 | mastic | | | | Dissolved |
| 23 - A | 16" x 16" Beige Floor Tile with Yellow Mastic | None Detected | | 100% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_8 | self stick tile | | | | Dissolved |
| 23 - B | 16" x 16" Beige Floor Tile with Yellow Mastic | None Detected | | 100% Other | Yellow Non Fibrous Heterogeneous |
| 1523583PLM_98 | mastic | | | | Dissolved |
| 24 - A | Roof Shingle and Felt Paper - Front Roof | None Detected | 10% Cellulose | 90% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_9 | shingle | | | | Dissolved |
| 24 - B | Roof Shingle and Felt Paper - Front Roof | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_99 | felt | | | | Teased, Dissolved |

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

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14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|--|---------------|--------------------|------------------------|---|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 25 - A | Roof Shingle and Felt Paper - Front Roof | None Detected | 10% Cellulose | 90% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_10 | shingle | | | | Dissolved |
| 25 - B | Roof Shingle and Felt Paper - Front Roof | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_100 | felt | | | | Teased, Dissolved |
| 26 - A | Roof Shingle and Felt Paper - Rear Roof | None Detected | 10% Cellulose | 90% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_11 | shingle | | | | Dissolved |
| 26 - B | Roof Shingle and Felt Paper - Rear Roof | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_101 | felt | | | | Teased, Dissolved |
| 27 - A | Roof Shingle and Felt Paper - Rear Roof | None Detected | 10% Cellulose | 90% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_12 | shingle | | | | Dissolved |
| 27 - B | Roof Shingle and Felt Paper - Rear Roof | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_102 | felt | | | | Teased, Dissolved |
| 28 - A | Black Tar on Flashing/Chimney - Front Roof | 4% Chrysotile | | 96% Other | Gray Non Fibrous Homogeneous |
| 1523583PLM_13 | flashing | | | | Ashed |
| 28 - B | Black Tar on Flashing/Chimney - Front Roof | 8% Chrysotile | | 92% Other | Black, Silver Non Fibrous Heterogeneous |
| 1523583PLM_103 | tar | | | | Dissolved |

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Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



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Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|--|---------------|--------------------|------------------------|---|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 29 - A | Black Tar on Flashing/Chimney - Front Roof | Not Analyzed | | | |
| 1523583PLM_14 | flashing | | | | |
| 29 - B | Black Tar on Flashing/Chimney - Front Roof | Not Analyzed | | | |
| 1523583PLM_104 | tar | | | | |
| 30 | Black/Silver Tar on Roof Vent | 8% Chrysotile | | 92% Other | Black, Silver Non Fibrous Heterogeneous |
| 1523583PLM_15 | | | | | Dissolved |
| 31 | Black/Silver Tar on Roof Vent | Not Analyzed | | | |
| 1523583PLM_16 | | | | | |
| 32 - A | Exterior White Window Caulk Layers | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_17 | | | | | Ashed |
| 32 - B | Exterior White Window Caulk Layers | None Detected | | 100% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_105 | | | | | Ashed |
| 33 - A | Exterior White Window Caulk Layers | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_18 | | | | | Ashed |
| 33 - B | Exterior White Window Caulk Layers | None Detected | | 100% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_106 | | | | | Ashed |

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

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Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|--|---------------|--------------------|------------------------|---------------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 34 | Exterior Black Tar on Brick (Former Roof) | 8% Chrysotile | | 92% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_19 | | | | | Dissolved |
| 35 | Exterior Black Tar on Brick (Former Roof) | Not Analyzed | | | |
| 1523583PLM_20 | | | | | |
| 36 | Interior Warehouse Window Glazing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_21 | | | | | Dissolved |
| 37 | Interior Warehouse Window Glazing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_22 | | | | | Dissolved |
| 38 | Interior Warehouse Window Glazing | 2% Chrysotile | | 98% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_23 | | | | | Dissolved |
| 39 - A | Interior Warehouse Window Glazing with Brown Caulk | 2% Chrysotile | | 98% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_24 | glazing | | | | Dissolved |
| 39 - B | Interior Warehouse Window Glazing with Brown Caulk | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_107 | caulk | | | | Ashed |
| 40 - A | Interior Warehouse Window Glazing with Brown Caulk | 2% Chrysotile | | 98% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_25 | glazing | | | | Dissolved |

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Byron Stroble (116)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|--|---------------|--------------------|------------------------|---------------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 40 - B | Interior Warehouse Window Glazing with Brown Caulk | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_108 | caulk | | | | Ashed |
| 41 | Interior Warehouse Window Glazing | None Detected | | 100% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_26 | | | | | Dissolved |
| 42 | Interior Warehouse Window Glazing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_27 | | | | | Dissolved |
| 43 | Interior Warehouse Window Glazing | 2% Chrysotile | | 98% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_28 | | | | | Dissolved |
| 44 | Interior Silver Paint on Interior Structural Steel | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_29 | | | | | Dissolved |
| 45 | Interior Silver Paint on Interior Structural Steel | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_30 | | | | | Dissolved |
| 46 | Exterior Silver Paint on Roof | 6% Chrysotile | | 94% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_31 | | | | | Dissolved |
| 47 | Exterior Silver Paint on Roof | Not Analyzed | | | |
| 1523583PLM_32 | | | | | |

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Attn: Beverly Sedon

Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|--|---------------|--------------------|------------------------|---|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 48 | Residual Tar on Brick (Former Roof) | 4% Chrysotile | | 96% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_33 | | | | | Dissolved |
| 49 | Residual Tar on Brick (Former Roof) | Not Analyzed | | | |
| 1523583PLM_34 | | | | | |
| 50 | Exterior Subgrade Waterproofing Membrane | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_35 | | | | | Dissolved |
| 51 | Exterior Subgrade Waterproofing Membrane | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_36 | | | | | Dissolved |
| 52 | Exterior Black Door Sealant on Bay Door | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_37 | | | | | Dissolved |
| 53 | Exterior Black Door Sealant on Bay Door | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_38 | | | | | Dissolved |
| 54 | Exterior Gray Wall Compound on Conduit | None Detected | 20% Cellulose | 80% Other | Gray, Black Non Fibrous Heterogeneous |
| 1523583PLM_39 | | | | | Dissolved |
| 55 | Exterior Gray Wall Compound on Conduit | None Detected | 20% Cellulose | 80% Other | Gray, Black Non Fibrous Heterogeneous |
| 1523583PLM_40 | | | | | Dissolved |

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Analysis ID: 1523583_PLM
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Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---|---------------|--------------------|------------------------|---|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 56 | Interior Gray Wall Compound on Pipes | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_41 | | | | | Dissolved |
| 57 | Interior Gray Wall Compound on Pipes | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_42 | | | | | Dissolved |
| 58 | Exterior Subgrade Waterproofing Membrane | 6% Chrysotile | | 94% Other | Gray, Black Non Fibrous Heterogeneous |
| 1523583PLM_43 | | | | | Dissolved |
| 59 | Exterior Subgrade Waterproofing Membrane | Not Analyzed | | | |
| 1523583PLM_44 | | | | | |
| 60 | Black Mastic behind Brick Walls | 8% Chrysotile | | 92% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_45 | | | | | Dissolved |
| 61 | Black Mastic behind Brick Walls | Not Analyzed | | | |
| 1523583PLM_46 | | | | | |
| 62 | Black Insulation Paper with Foil in Wall Cavity | None Detected | 70% Cellulose | 30% Other | Brown, Black Fibrous Heterogeneous |
| 1523583PLM_47 | paper on fiberglass | | | | Teased, Ashed |
| 63 | Black Insulation Paper with Foil in Wall Cavity | None Detected | 70% Cellulose | 30% Other | Brown, Black Fibrous Heterogeneous |
| 1523583PLM_48 | paper on fiberglass | | | | Teased, Ashed |

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Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|--|---------------|--------------------|------------------------|---------------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 64 | Interior Brown Waterproofing | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_49 | | | | | Ashed |
| 65 | Interior Brown Waterproofing | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_50 | | | | | Ashed |
| 66 - A | 9" x 9" Black Floor Tile with Black Mastic | 6% Chrysotile | | 94% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_51 | floor tile | | | | Dissolved |
| 66 - B | 9" x 9" Black Floor Tile with Black Mastic | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_109 | mastic & felt | | | | Teased, Dissolved |
| 67 - A | 9" x 9" Black Floor Tile with Black Mastic | Not Analyzed | | | |
| 1523583PLM_52 | floor tile | | | | |
| 67 - B | 9" x 9" Black Floor Tile with Black Mastic | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_110 | mastic & felt | | | | Teased, Dissolved |
| 68 | White Floor Compound | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_53 | | | | | Crushed |
| 69 | White Floor Compound | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_54 | | | | | Crushed |

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Bulk Asbestos Analysis

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NVLAP Lab Code: 200664-0

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Lab Order ID: 1523583
Analysis ID: 1523583_PLM
Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|---|---------------|--------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 70 - A | 12" x 12" Tan Floor Tile with Mottles and Yellow Mastic | None Detected | | 100% Other | Tan Non Fibrous Heterogeneous |
| 1523583PLM_55 | floor tile | | | | Dissolved |
| 70 - B | 12" x 12" Tan Floor Tile with Mottles and Yellow Mastic | None Detected | | 100% Other | Yellow Non Fibrous Heterogeneous |
| 1523583PLM_111 | mastic | | | | Dissolved |
| 71 - A | 12" x 12" Tan Floor Tile with Mottles and Yellow Mastic | None Detected | | 100% Other | Tan Non Fibrous Heterogeneous |
| 1523583PLM_56 | floor tile | | | | Dissolved |
| 71 - B | 12" x 12" Tan Floor Tile with Mottles and Yellow Mastic | None Detected | | 100% Other | Yellow Non Fibrous Heterogeneous |
| 1523583PLM_112 | mastic | | | | Dissolved |
| 72 - A | 12" x 12" White Feathered Floor Tile with Yellow Mastic | 2% Chrysotile | | 98% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_57 | floor tile | | | | Dissolved |
| 72 - B | 12" x 12" White Feathered Floor Tile with Yellow Mastic | None Detected | | 100% Other | Yellow Non Fibrous Heterogeneous |
| 1523583PLM_113 | mastic | | | | Dissolved |
| 73 - A | 12" x 12" White Feathered Floor Tile with Yellow Mastic | Not Analyzed | | | |
| 1523583PLM_58 | floor tile | | | | |
| 73 - B | 12" x 12" White Feathered Floor Tile with Yellow Mastic | None Detected | | 100% Other | Yellow Non Fibrous Heterogeneous |
| 1523583PLM_114 | mastic | | | | Dissolved |

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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|--|---------------|--------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 74 | Drywall Joint Compound | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_59 | <i>drywall: none detect; joint compnd: none detect</i> | | | | Teased |
| 75 | Drywall Joint Compound | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_60 | <i>drywall: none detect; joint compnd: none detect</i> | | | | Teased |
| 76 | Interior White Window Compound on Sill | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_61 | | | | | Teased |
| 77 | Interior White Window Compound on Sill | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_62 | | | | | Teased |
| 78 | Drywall Wallboard | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_63 | | | | | Teased |
| 79 | Drywall Wallboard | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_64 | | | | | Teased |
| 80 | Interior White Window Glazing on Metal Mullions | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_65 | | | | | Dissolved |
| 81 | Interior White Window Glazing on Metal Mullions | None Detected | | 100% Other | White Non Fibrous Heterogeneous |
| 1523583PLM_66 | | | | | Dissolved |

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Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

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Lab Order ID: 1523583
Analysis ID: 1523583_PLM
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Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------|---|---------------|--------------------|------------------------|---------------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 84 - A | 12" x 12" Blue Floor Tile with Brown Mastic | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_67 | floor tile | | | | Dissolved |
| 84 - B | 12" x 12" Blue Floor Tile with Brown Mastic | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_115 | mastic | | | | Dissolved |
| 85 - A | 12" x 12" Blue Floor Tile with Brown Mastic | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_68 | floor tile | | | | Dissolved |
| 85 - B | 12" x 12" Blue Floor Tile with Brown Mastic | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_116 | mastic | | | | Dissolved |
| 86 | Exterior Gray Door Caulk | 2% Chrysotile | | 98% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_69 | | | | | Dissolved |
| 87 | Exterior Gray Door Caulk | Not Analyzed | | | |
| 1523583PLM_70 | | | | | |
| 88 | White Block Sheet Floor | None Detected | 90% Cellulose | 10% Other | White Fibrous Heterogeneous |
| 1523583PLM_71 | | | | | Teased, Ashed |
| 89 | White Block Sheet Floor | None Detected | 90% Cellulose | 10% Other | White Fibrous Heterogeneous |
| 1523583PLM_72 | | | | | Teased, Ashed |

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NVLAP Lab Code: 200664-0

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Attn: Beverly Sedon

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Date Received: 12/4/2015
Date Reported: 12/4/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|--|----------------------|--------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 90 | Drywall Joint Compound | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_73 | <i>drywall: none detect; joint compnd: none detect</i> | | | | Teased |
| 91 | Drywall Joint Compound | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_74 | <i>drywall: none detect; joint compnd: none detect</i> | | | | Teased |
| 92 | Drywall Wallboard | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_75 | | | | | Teased |
| 93 | Drywall Wallboard | None Detected | 10% Cellulose | 90% Other | Brown, White Non Fibrous Heterogeneous |
| 1523583PLM_76 | | | | | Teased |
| 94 | Black Tar Paper | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_77 | | | | | Teased, Dissolved |
| 95 | Black Tar Paper | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523583PLM_78 | | | | | Teased, Dissolved |
| 96 | Brown Wall Plaster Coating | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_79 | <i>single layer</i> | | | | Crushed |
| 97 | Brown Wall Plaster Coating | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_80 | <i>single layer</i> | | | | Crushed |

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Analysis ID: 1523583_PLM
Date Received: 12/4/2015
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Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|--------------------------------------|----------------------|--------------------|------------------------|---------------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 98 | Brown Wall Plaster Coating | None Detected | | 100% Other | Brown Non Fibrous Heterogeneous |
| 1523583PLM_81 | single layer | | | | Crushed |
| 99 | Black Mastic on Brick in Wall Cavity | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_82 | | | | | Dissolved |
| 100 | Black Mastic on Brick in Wall Cavity | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523583PLM_83 | | | | | Dissolved |
| 101 | Interior Window Caulk | 2% Chrysotile | | 98% Other | Beige Non Fibrous Heterogeneous |
| 1523583PLM_84 | | | | | Dissolved |
| 102 | Interior Window Caulk | Not Analyzed | | | |
| 1523583PLM_85 | | | | | |
| 103 | Exterior Window Glazing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_86 | | | | | Dissolved |
| 104 | Exterior Window Glazing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_87 | | | | | Dissolved |
| 105 | Exterior Window Glazing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_88 | | | | | Dissolved |

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Analysis ID: 1523583_PLM
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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|-------------------------------|---------------|--------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 106 | Exterior Silver Paint on Wall | None Detected | | 100% Other | Silver Non Fibrous Heterogeneous |
| 1523583PLM_89 | | | | | Dissolved |
| 107 | Exterior Silver Paint on Wall | None Detected | | 100% Other | Silver Non Fibrous Heterogeneous |
| 1523583PLM_90 | | | | | Dissolved |
| 108 | Exterior Gray Wall Caulk | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_91 | | | | | Ashed |
| 109 | Exterior Gray Wall Caulk | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523583PLM_92 | | | | | Ashed |

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Analyst

Approved Signatory

1523583

| | | |
|------------------------|--|--|
| Client: | ECS Mid-Atlantic, LLC | *Instructions: Use Column "B" for your contact info To See an Example Click the bottom Example Tab. Enter samples between "<<" and ">>" Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1" Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data. |
| Contact: | Beverly Sedon | |
| Address: | 14026 Thunderbolt Place, Suite | |
| Phone: | 301-672-2096 (cell) | |
| Fax: | | |
| Email: | bsedon@ecslimited.com | |
| Project: | 21983-F | |
| Client Notes: | Positive Stop Except for Samples: HA 41 | |
| P.O. #: | 21983-F | |
| Date Submitted: | 12/3/2015 0:00 | |
| Analysis: | PLM EPA 600/R-93/116 | |
| TurnAroundTime: | 1 Day TAT | |

Scientific Analytical Institute

**4604 Dundas Drive
 Greensboro, NC 27407
 Phone: 336.292.3888
 Fax: 336.292.3313
 Email: lab@sailab.com**

| Sample Number | Data 1 | Sample Description | Data 2 |
|---------------|--------|---|-------------------------------------|
| << | | | |
| 16 | HA 23 | 9"x 9" Tan Floor Tile with Black Mastic | Office Bldg - 1st FL Conf Rm |
| 17 | HA 23 | 9"x 9" Tan Floor Tile with Black Mastic | Office Bldg - 1st FL Conf Rm |
| 18 | HA 24 | Black Mastic on Radiator | Office Bldg - 1st FL Conf Rm |
| 19 | HA 24 | Black Mastic on Radiator | Office Bldg - 1st FL Conf Rm |
| 20 | HA 25 | Off-White Sheet Flooring | Office Bldg - Kitchen |
| 21 | HA 25 | Off-White Sheet Flooring | Office Bldg - Kitchen |
| 22 | HA 26 | 16" x 16" Beige Floor Tile with Yellow Mastic | Office Bldg - 1st Floor Womens |
| 23 | HA 26 | 16" x 16" Beige Floor Tile with Yellow Mastic | Office Bldg - 1st Floor Womens |
| 24 | HA 35 | Roof Shinlge and Felt Paper - Front Roof | Office Bldg - Roof |
| 25 | HA 35 | Roof Shinlge and Felt Paper - Front Roof | Office Bldg - Roof |
| 26 | HA 36 | Roof Shinlge and Felt Paper - Rear Roof | Office Bldg - Roof Inside Warehouse |
| 27 | HA 36 | Roof Shinlge and Felt Paper - Rear Roof | Office Bldg - Roof Inside Warehouse |
| 28 | HA 37 | Black Tar on Flashing/Chimney - Front Roof | Office Bldg - Roof |
| 29 | HA 37 | Black Tar on Flashing/Chimney - Front Roof | Office Bldg - Roof |
| 30 | HA 38 | Black/Silver Tar on Roof Vent | Office Bldg - Roof |
| 31 | HA 38 | Black/Silver Tar on Roof Vent | Office Bldg - Roof |
| 32 | HA 39 | Exterior White Window Caulk Layers | Office Bldg - 2nd Floor Windows |
| 33 | HA 39 | Exterior White Window Caulk Layers | Office Bldg - 2nd Floor Windows |
| 34 | HA 40 | Exterior Black Tar on Brick (Former Roof) | Office Bldg - Inside Warehouse |

Accepted

Rejected

| | | | |
|----|-------|--|---------------------------------|
| 35 | HA 40 | Exterior Black Tar on Brick (Former Roof) | Office Bldg - Inside Warehouse |
| 36 | HA 41 | Interior Warehouse Window Glazing | Warehouse 8 Upper Windows |
| 37 | HA 41 | Interior Warehouse Window Glazing | Warehouse 8 Upper Windows |
| 38 | HA 41 | Interior Warehouse Window Glazing | Warehouse 2 Upper Windows |
| 39 | HA 41 | Interior Warehouse Window Glazing with Brown Caulk | Warehouse 2 Upper Windows |
| 40 | HA 41 | Interior Warehouse Window Glazing with Brown Caulk | Warehouse 2 Upper Windows |
| 41 | HA 41 | Interior Warehouse Window Glazing | Warehouse 1 Upper Windows |
| 42 | HA 41 | Interior Warehouse Window Glazing | Warehouse 1 Upper Windows |
| 43 | HA 41 | Interior Warehouse Window Glazing | Warehouse 7 Upper Windows |
| 44 | HA 42 | Interior Silver Paint on Interior Structural Steel | Warehouse 1 Upper Steel |
| 45 | HA 42 | Interior Silver Paint on Interior Structural Steel | Warehouse 1 Upper Steel |
| 46 | HA 43 | Exterior Silver Paint on Roof | Warehouse 1 |
| 47 | HA 43 | Exterior Silver Paint on Roof | Warehouse 1 |
| 48 | HA 44 | Residual Tar on Brick (Former Roof) | Warehouse 6 Pump Bldg |
| 49 | HA 44 | Residual Tar on Brick (Former Roof) | Warehouse 6 Pump Bldg |
| 50 | HA 45 | Exterior Subgrade Waterproofing Membrane | Warehouse 1 West Wall |
| 51 | HA 45 | Exterior Subgrade Waterproofing Membrane | Warehouse 1 West Wall |
| 52 | HA 46 | Exterior Black Door Sealant on Bay Door | Warehouse 8 |
| 53 | HA 46 | Exterior Black Door Sealant on Bay Door | Warehouse 8 |
| 54 | HA 47 | Exterior Gray Wall Compound on Conduit | Warehouse 6 |
| 55 | HA 47 | Exterior Gray Wall Compound on Conduit | Warehouse 6 |
| 56 | HA 48 | Interior Gray Wall Compound on Pipes | Warehouse 6 |
| 57 | HA 48 | Interior Gray Wall Compound on Pipes | Warehouse 6 |
| 58 | HA 49 | Exterior Subgrade Waterproofing Membrane | Warehouse 4 |
| 59 | HA 49 | Exterior Subgrade Waterproofing Membrane | Warehouse 4 |
| 60 | HA 50 | Black Mastic behind Brick Walls | Warehouse 4 Sprinkler Room |
| 61 | HA 50 | Black Mastic behind Brick Walls | Warehouse 4 Sprinkler Room |
| 62 | HA 51 | Black Insulation Paper with Foil in Wall Cavity | Warehouse 4 Sprinkler Room |
| 63 | HA 51 | Black Insulation Paper with Foil in Wall Cavity | Warehouse 4 Sprinkler Room |
| 64 | HA 52 | Interior Brown Waterproofing | Office Bldg Beneath Stairwell |
| 65 | HA 52 | Interior Brown Waterproofing | Office Bldg Beneath Stairwell |
| 66 | HA 27 | 9" x 9" Black Floor Tile with Black Mastic | Office Bldg-2nd Floor NE Office |
| 67 | HA 27 | 9" x 9" Black Floor Tile with Black Mastic | Office Bldg-2nd Floor NE Office |
| 68 | HA 28 | White Floor Compound | Office Bldg-2nd Floor NE Office |
| 69 | HA 28 | White Floor Compound | Office Bldg-2nd Floor NE Office |

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| | | |
|-----------|---|-------------------------------------|
| 70 HA 29 | 12" x 12" Tan Floor Tile with Mottles and Yellow Mastic | Office Bldg -2nd Floor Center Hall |
| 71 HA 29 | 12" x 12" Tan Floor Tile with Mottles and Yellow Mastic | Office Bldg -2nd Floor Center Hall |
| 72 HA 30 | 12" x 12" White Feathered Floor Tile with Yellow Mastic | Office Bldg -2nd Floor Rear Hall |
| 73 HA 30 | 12" x 12" White Feathered Floor Tile with Yellow Mastic | Office Bldg -2nd Floor Rear Hall |
| 74 HA 31 | Drywall Joint Compound | Office Bldg -2nd Floor Rear Hall |
| 75 HA 31 | Drywall Joint Compound | Office Bldg -2nd Floor Rear Hall |
| 76 HA 32 | Interior White Window Compound on Sill | Office Bldg - 2nd Floor West Office |
| 77 HA 32 | Interior White Window Compound on Sill | Office Bldg - 2nd Floor West Office |
| 78 HA 33 | Drywall Wallboard | Men's Bathroom |
| 79 HA 33 | Drywall Wallboard | Men's Bathroom |
| 80 HA 34 | Interior White Window Glazing on Metal Mullions | Office Bldg-2nd FL SW Rear Office |
| 81 HA 34 | Interior White Window Glazing on Metal Mullions | Office Bldg-2nd FL SW Rear Office |
| 84 HA 53 | 12" x 12" Blue Floor Tile with Brown Mastic | Welding Shop |
| 85 HA 53 | 12" x 12" Blue Floor Tile with Brown Mastic | Welding Shop |
| 86 HA 54 | Exterior Gray Door Caulk | Welding Shop |
| 87 HA 54 | Exterior Gray Door Caulk | Welding Shop |
| 88 HA 55 | White Block Sheet Floor | Dock Booth |
| 89 HA 55 | White Block Sheet Floor | Dock Booth |
| 90 HA 56 | Drywall Joint Compound | Warehouse 4 Mezz. Office Level |
| 91 HA 56 | Drywall Joint Compound | Warehouse 4 Mezz. Office Level |
| 92 HA 57 | Drywall Wallboard | Warehouse 4 Mezz. Office Level |
| 93 HA 57 | Drywall Wallboard | Warehouse 4 Mezz. Office Level |
| 94 HA 58 | Black Tar Paper | Marine Shop - 2nd FL Mezz Level |
| 95 HA 58 | Black Tar Paper | Marine Shop - 2nd FL Mezz Level |
| 96 HA 59 | Brown Wall Plaster Coating | Marine Shop - Rear Room |
| 97 HA 59 | Brown Wall Plaster Coating | Marine Shop - Rear Room |
| 98 HA 59 | Brown Wall Plaster Coating | Marine Shop - Rear Room |
| 99 HA 60 | Black Mastic on Brick in Wall Cavity | Marine Shop - Rear Room |
| 100 HA 60 | Black Mastic on Brick in Wall Cavity | Marine Shop - Rear Room |
| 101 HA 61 | Interior Window Caulk | Marine Shop - Front Rooms |
| 102 HA 61 | Interior Window Caulk | Marine Shop - Front Rooms |
| 103 HA 62 | Exterior Window Glazing | Marine Shop |
| 104 HA 62 | Exterior Window Glazing | Marine Shop |
| 105 HA 62 | Exterior Window Glazing | Marine Shop |
| 106 HA 63 | Exterior Silver Paint on Wall | Marine Shop |
| 107 HA 63 | Exterior Silver Paint on Wall | Marine Shop |
| 108 HA 64 | Exterior Gray Wall Caulk | Marine Shop |
| 109 HA 64 | Exterior Gray Wall Caulk | Marine Shop |

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Lab Order ID: 1523842
Analysis ID: 1523842_PLM
Date Received: 12/8/2015
Date Reported: 12/8/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---|---------------|---------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 110 | Silver Paint on Black Tar on Tank Structure | 5% Chrysotile | 25% Cellulose | 70% Other | Silver, Black Fibrous Heterogeneous |
| 1523842PLM_1 | | | | | Dissolved |
| 111 | Silver Paint on Black Tar on Tank Structure | Not Analyzed | | | |
| 1523842PLM_2 | | | | | |
| 112 | White Caulk on Tank Structure | 2% Chrysotile | 3% Synthetic Fibers | 95% Other | White, Silver, Black Non Fibrous Heterogeneous |
| 1523842PLM_3 | | | | | Dissolved |
| 113 | White Caulk on Tank Structure | Not Analyzed | | | |
| 1523842PLM_4 | | | | | |
| 114 | Roof -Top White Membrane | None Detected | 3% Synthetic Fibers | 97% Other | White, Gray Non Fibrous Heterogeneous |
| 1523842PLM_5 | | | | | Dissolved |
| 115 - A | Rof - Black Felt with Fiberboard | None Detected | 35% Cellulose | 65% Other | Black Fibrous Heterogeneous |
| 1523842PLM_6 | felt | | | | Dissolved |
| 115 - B | Rof - Black Felt with Fiberboard | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_57 | fiberboard | | | | Teased |
| 116 | Exteiror White Window Glaze | 3% Chrysotile | | 97% Other | White, Tan Non Fibrous Heterogeneous |
| 1523842PLM_7 | | | | | Dissolved |

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Charmel Dozier (58)

Analyst

Approved Signatory



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EPA Method: 600/R-93/116 and 600/M4-82-020



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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|----------------------------------|----------------|----------------------------------|------------------------|--|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 117 | Exterior White Window Glaze | Not Analyzed | | | |
| 1523842PLM_8 | | | | | |
| 118 | Black Tar Patch on Siding | None Detected | 20% Cellulose | 80% Other | Black, Green Non Fibrous Heterogeneous |
| 1523842PLM_9 | | | | | Dissolved |
| 119 | Black Tar Patch on Siding | None Detected | 20% Cellulose | 80% Other | Black, Green Non Fibrous Heterogeneous |
| 1523842PLM_10 | | | | | Dissolved |
| 120 | Black Tar on HVAC Pitch Pocket | 10% Chrysotile | | 90% Other | Black Non Fibrous Heterogeneous |
| 1523842PLM_11 | | | | | Dissolved |
| 121 | Black Tar on HVAC Pitch Pocket | Not Analyzed | | | |
| 1523842PLM_12 | | | | | |
| 122 | Roof -Top White Membrane | None Detected | 20% Synthetic Fibers | 80% Other | White Non Fibrous Heterogeneous |
| 1523842PLM_13 | | | | | Dissolved |
| 123 - A | Rof - Black Felt with Fiberboard | None Detected | 20% Fiber Glass 10% Cellulose | 70% Other | Black Fibrous Heterogeneous |
| 1523842PLM_14 | felt | | | | Dissolved |
| 123 - B | Rof - Black Felt with Fiberboard | None Detected | 70% Cellulose | 30% Other | Black Fibrous Heterogeneous |
| 1523842PLM_58 | fiberboard | | | | Dissolved |

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Analysis ID: 1523842_PLM
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Date Reported: 12/8/2015

Project: 21983-F

| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---------------------------|----------------|---------------------|------------------------|---------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 124 | Roof - Top Black Membrane | None Detected | 20% Fiber Glass | 80% Other | Black Fibrous Heterogeneous |
| 1523842PLM_15 | | | | | Dissolved |
| 125 | Roof - Top Black Membrane | None Detected | 20% Fiber Glass | 80% Other | Black Fibrous Heterogeneous |
| 1523842PLM_16 | | | | | Dissolved |
| 126 | Roof - Black Membrane | 30% Chrysotile | 5% Cellulose | 65% Other | Black Fibrous Heterogeneous |
| 1523842PLM_17 | | | | | Dissolved |
| 127 | Roof - Black Membrane | Not Analyzed | | | |
| 1523842PLM_18 | | | | | |
| 128 | Roof - Fiberboard | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_19 | | | | | Teased |
| 129 | Roof - Fiberboard | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_20 | | | | | Teased |
| 130 | Roof - White Lap Sealant | None Detected | 3% Synthetic Fibers | 97% Other | White Non Fibrous Heterogeneous |
| 1523842PLM_21 | | | | | Dissolved |
| 131 | Roof - White Lap Sealant | None Detected | 3% Synthetic Fibers | 97% Other | White Non Fibrous Heterogeneous |
| 1523842PLM_22 | | | | | Dissolved |

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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|-----------------------------------|----------------|---------------------|------------------------|-----------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 132 | Roof - White Sealant on Vents | None Detected | 3% Synthetic Fibers | 97% Other | White Non Fibrous Heterogeneous |
| 1523842PLM_23 | | | | | Dissolved |
| 133 | Roof - White Sealant on Vents | None Detected | 3% Synthetic Fibers | 97% Other | Gray Non Fibrous Heterogeneous |
| 1523842PLM_24 | | | | | Dissolved |
| 134 | Roof - Gray Sealant on Vent Stack | 10% Chrysotile | | 90% Other | Gray, Black Fibrous Heterogeneous |
| 1523842PLM_25 | | | | | Dissolved |
| 135 | Roof - Gray Sealant on Vent Stack | Not Analyzed | | | |
| 1523842PLM_26 | | | | | |
| 136 | Roof - Top Asphalt Layer | None Detected | 20% Fiber Glass | 80% Other | Gray, Black Fibrous Heterogeneous |
| 1523842PLM_27 | | | | | Dissolved |
| 137 | Roof - Top Asphalt Layer | None Detected | 20% Fiber Glass | 80% Other | Gray, Black Fibrous Heterogeneous |
| 1523842PLM_28 | | | | | Dissolved |
| 138 | Roof - Middle Felt Layer | None Detected | 35% Fiber Glass | 65% Other | Black Fibrous Heterogeneous |
| 1523842PLM_29 | | | | | Dissolved |
| 139 | Roof - Middle Felt Layer | None Detected | 35% Fiber Glass | 65% Other | Black Fibrous Heterogeneous |
| 1523842PLM_30 | | | | | Dissolved |

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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|--------------------------------|----------------------|--------------------|------------------------|-----------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 140 | Roof - Fiberboard Layer | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_31 | | | | | Teased |
| 141 | Roof - Fiberboard Layer | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_32 | | | | | Teased |
| 142 | Roof - Bottom Tar Layer | 5% Chrysotile | 20% Cellulose | 75% Other | Black Fibrous Heterogeneous |
| 1523842PLM_33 | | | | | Dissolved |
| 143 | Roof - Bottom Tar Layer | Not Analyzed | | | |
| 1523842PLM_34 | | | | | |
| 144 | Black/Gray Sealant on Flashing | 10% Chrysotile | 10% Cellulose | 80% Other | Black, Gray Fibrous Heterogeneous |
| 1523842PLM_35 | | | | | Dissolved |
| 145 | Black/Gray Sealant on Flashing | Not Analyzed | | | |
| 1523842PLM_36 | | | | | |
| 146 | Lt. Gray Sealant on Flashing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523842PLM_37 | | | Dissolved | | |
| 147 | Lt. Gray Sealant on Flashing | None Detected | | 100% Other | Gray Non Fibrous Heterogeneous |
| 1523842PLM_38 | | | Dissolved | | |

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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---|----------------|--------------------|------------------------|-------------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 148 | Silver Paint on Black Tar on Vent Pipes | 12% Chrysotile | | 88% Other | Black, Silver Fibrous Heterogeneous |
| 1523842PLM_39 | | | | | Dissolved |
| 149 | Silver Paint on Black Tar on Vent Pipes | Not Analyzed | | | |
| 1523842PLM_40 | | | | | |
| 150 | Black Tar on Vent/Roof Seams | 5% Chrysotile | 10% Cellulose | 85% Other | Black Fibrous Heterogeneous |
| 1523842PLM_41 | | | | | Dissolved |
| 151 | Black Tar on Vent/Roof Seams | Not Analyzed | | | |
| 1523842PLM_42 | | | | | |
| 152 | Roof - Top Black Membrane | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523842PLM_43 | | | | | Dissolved |
| 153 | Roof - Top Black Membrane | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523842PLM_44 | | | | | Dissolved |
| 154 | Roof - Fiberboard | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_45 | | | | | Teased |
| 155 | Roof - Fiberboard | None Detected | 95% Cellulose | 5% Other | Brown Fibrous Heterogeneous |
| 1523842PLM_46 | | | | | Teased |

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| Sample ID | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|---------------|---------------------------------|---------------|--------------------|------------------------|-----------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 156 | Roof - Bottom Felt Layer | None Detected | 40% Cellulose | 60% Other | Black Fibrous Heterogeneous |
| 1523842PLM_47 | | | | | Dissolved |
| 157 | Roof - Bottom Felt Layer | None Detected | 40% Cellulose | 60% Other | Black Fibrous Heterogeneous |
| 1523842PLM_48 | | | | | Dissolved |
| 158 | Black Caulk on Flashing/Chimney | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523842PLM_49 | | | | | Dissolved |
| 159 | Black Caulk on Flashing/Chimney | None Detected | | 100% Other | Black Non Fibrous Heterogeneous |
| 1523842PLM_50 | | | | | Dissolved |
| 160 | Black Cement on Coping | 2% Chrysotile | 8% Cellulose | 90% Other | Black Fibrous Heterogeneous |
| 1523842PLM_51 | | | | | Dissolved |
| 161 | Black Cement on Coping | Not Analyzed | | | |
| 1523842PLM_52 | | | | | |
| 162 | Gray Caulk on Flashing | 5% Chrysotile | 10% Cellulose | 85% Other | Gray, Black Fibrous Heterogeneous |
| 1523842PLM_53 | | | | | Dissolved |
| 163 | Gray Caulk on Flashing | Not Analyzed | | | |
| 1523842PLM_54 | | | | | |

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|---------------|--------------------|---------------|--------------------|------------------------|-----------------------------------|
| Lab Sample ID | Lab Notes | | | | Treatment |
| 164 | Black Roof Shingle | None Detected | 20% Fiber Glass | 80% Other | Gray, Black Fibrous Heterogeneous |
| 1523842PLM_55 | | | | | Dissolved |
| 165 | Black Roof Shingle | None Detected | 20% Fiber Glass | 80% Other | Gray, Black Fibrous Heterogeneous |
| 1523842PLM_56 | | | | | Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Charmel Dozier (58)

Analyst

Approved Signatory

1523842

Client: ECS Mid-Atlantic, LLC
Contact: Beverly Sedon
Address: 14026 Thunderbolt Place, Suite
Phone: 301-672-2096 (cell)
Fax:
Email: bsedon@ecsiimited.com
Project: 21983-F
Client Notes: Positive Stop
P.O. #: 21983-F
Date Submitted: 12/7/2015 0:00
Analysis: PLM EPA 600/R-93/116
TurnAroundTime: 1 Day TAT

***Instructions:**
 Use Column "B" for your contact info

 To See an Example Click the
 bottom Example Tab.

 Enter samples between "<<" and ">>"
 Begin Samples with a "<<" above the first sample
 and end with a ">>" below the last sample.
 Only Enter your data on the first sheet "Sheet1"

 Note: Data 1 and Data 2 are optional
 fields that do not show up on the official
 report, however they will be included
 in the electronic data returned to you
 to facilitate your reintegration of the report data.

Scientific Analytical Institute

 4604 Dundas Drive
 Greensboro, NC 27407
 Phone: 336.292.3888
 Fax: 336.292.3313
 Email: lab@sailab.com

| Sample Number | Data 1 | Sample Description | Data 2 |
|---------------|--------|---|------------------------|
| << | | | |
| 110 | HA65 | Silver Paint on Black Tar on Tank Structure | Roof - Warehouse 4 |
| 111 | HA65 | Silver Paint on Black Tar on Tank Structure | Roof - Warehouse 4 |
| 112 | HA 66 | White Caulk on Tank Structure | Roof - Warehouse 4 |
| 113 | HA 66 | White Caulk on Tank Structure | Roof - Warehouse 4 |
| 114 | HA 67 | Roof -Top White Membrane | Roof - Warehouse 4 |
| 115 | HA 68 | Rof - Black Felt with Fiberboard | Roof - Warehouse 4 |
| 116 | HA 69 | Exteiror White Window Glaze | Warehouse 8 |
| 117 | HA 69 | Exteiror White Window Glaze | Warehouse 8 |
| 118 | HA 70 | Black Tar Patch on Siding | Warehouse 8 |
| 119 | HA 70 | Black Tar Patch on Siding | Warehouse 8 |
| 120 | HA 71 | Black Tar on HVAC Pitch Pocket | Roof - Warehouse 4 |
| 121 | HA 71 | Black Tar on HVAC Pitch Pocket | Roof - Warehouse 4 |
| 122 | HA 67 | Roof -Top White Membrane | Roof - Warehouse 6/7/8 |
| 123 | HA 68 | Rof - Black Felt with Fiberboard | Roof - Warehouse 6/7/8 |
| 124 | HA 72 | Roof - Top Black Membrane | Roof - Warehouse 2 |
| 125 | HA 72 | Roof - Top Black Membrane | Roof - Warehouse 2 |
| 126 | HA73 | Roof - Black Membrane | Roof - Warehouse 2 |
| 127 | HA73 | Roof - Black Membrane | Roof - Warehouse 2 |
| 128 | HA 74 | Roof - Fiberboard | Roof - Warehouse 2 |
| 129 | HA 74 | Roof - Fiberboard | Roof - Warehouse 2 |

Accepted
 Rejected

Pulley 12/8
 10A

| | | |
|-----------|---|------------------------|
| 130 HA 75 | Roof - White Lap Sealant | Roof - Warehouse 6/7/8 |
| 131 HA 75 | Roof - White Lap Sealant | Roof - Warehouse 6/7/8 |
| 132 HA 76 | Roof - White Sealant on Vents | Roof - Warehouse 4 |
| 133 HA 76 | Roof - White Sealant on Vents | Roof - Warehouse 4 |
| 134 HA 77 | Roof - Gray Sealant on Vent Stack | Roof - Warehouse 4 |
| 135 HA 77 | Roof - Gray Sealant on Vent Stack | Roof - Warehouse 4 |
| 136 HA 78 | Roof - Top Asphalt Layer | Marine Shop |
| 137 HA 78 | Roof - Top Asphalt Layer | Marine Shop |
| 138 HA 79 | Roof - Middle Felt Layer | Marine Shop |
| 139 HA 79 | Roof - Middle Felt Layer | Marine Shop |
| 140 HA 80 | Roof - Fiberboard Layer | Marine Shop |
| 141 HA 80 | Roof - Fiberboard Layer | Marine Shop |
| 142 HA 81 | Roof - Bottom Tar Layer | Marine Shop |
| 143 HA 81 | Roof - Bottom Tar Layer | Marine Shop |
| 144 HA 82 | Black/Gray Sealant on Flashing | Marine Shop |
| 145 HA 82 | Black/Gray Sealant on Flashing | Marine Shop |
| 146 HA 83 | Lt. Gray Sealant on Flashing | Marine Shop |
| 147 HA 83 | Lt. Gray Sealant on Flashing | Marine Shop |
| 148 HA 84 | Silver Paint on Black Tar on Vent Pipes | Marine Shop |
| 149 HA 84 | Silver Paint on Black Tar on Vent Pipes | Marine Shop |
| 150 HA 85 | Black Tar on Vent/Roof Seams | Marine Shop |
| 151 HA 85 | Black Tar on Vent/Roof Seams | Marine Shop |
| 152 HA 86 | Roof - Top Black Membrane | Welding Shop |
| 153 HA 86 | Roof - Top Black Membrane | Welding Shop |
| 154 HA 87 | Roof - Fiberboard | Welding Shop |
| 155 HA 87 | Roof - Fiberboard | Welding Shop |
| 156 HA 88 | Roof - Bottom Felt Layer | Welding Shop |
| 157 HA 88 | Roof - Bottom Felt Layer | Welding Shop |
| 158 HA 89 | Black Caulk on Flashing/Chimney | Welding Shop |
| 159 HA 89 | Black Caulk on Flashing/Chimney | Welding Shop |
| 160 HA 90 | Black Cement on Coping | Welding Shop |
| 161 HA 90 | Black Cement on Coping | Welding Shop |
| 162 HA 91 | Gray Caulk on Flashing | Welding Shop |
| 163 HA 91 | Gray Caulk on Flashing | Welding Shop |

1523842

164 HA92

Black Roof Shingle

Dock Booth

165 HA92

Black Roof Shingle

Dock Booth

>>