

LIMITED HAZARDOUS MATERIALS SURVEY



ROOFS AND EXTERIOR AREAS OF VIRGINIA HOSPITAL CENTER

601 S. CARLIN SPRINGS ROAD
ARLINGTON, VIRGINIA 22204

ECS PROJECT NO. 47:1424-A

FOR: ARLINGTON COUNTY

NOVEMBER 22, 2019





November 22, 2019

Mr. Jesus Almario
Arlington County
1400 N. Uhle Street
Room 403
Arlington, Virginia 22201

ECS Project No. 47:1424-A

Reference: Limited Hazardous Materials Survey, Roofs and Exterior Areas of Virginia Hospital Center, 601 S. Carlin Springs Road, Arlington, Virginia

Dear Mr. Almario:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Arlington County with the results of the above referenced Limited Hazardous Materials Survey performed for select areas of Virginia Hospital Center located at 601 S. Carlin Springs Road in Arlington, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:12540-EPR and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Arlington County with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

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EXECUTIVE SUMMARY

The subject property is improved with a 138,405 square foot hospital building which was reportedly originally constructed in 1959. ECS's scope of work was limited to the roofs, interior window materials, and exterior areas of the northern one-story and two-story sections of the building. The southern multi-story medical office building was not included in this scope of work. The sample location drawings attached to the report identify which areas of the building are not included in the scope of work. At the time of our survey the northern one-story and two-story sections of the subject building were partially occupied and are currently scheduled to be demolished.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) and lead-based paints (LBPs), are present on the northern one-story and two-story sections of the building. The survey was limited to exterior materials, roof materials, and materials associated with interior windows of the northern one-story and two-story sections of the building.

Based on the laboratory analysis of the bulk samples collected during the survey, the following materials were reported to contain asbestos:

- Roof Flashing Caulk;
- Exterior Window Caulks and Glazing;
- Exterior Door Caulk;
- Exterior Light Shield Insulation;
- Interior Window Glazing.

The lead-based paint survey was performed by a Commonwealth of Virginia licensed Lead Inspector. Painted and/or glazed surfaces were assessed for lead content using a Direct-Read X-Ray Fluorescence (XRF) Spectrometer. Lead-Based Glaze was identified on the following building materials/components:

- Metal Roof Joists;
- Exterior Metal Door Components.

In addition to survey for ACMs and LBPs, ECS surveyed portions of the building for various materials classified as Hazardous Waste or Universal waste which may require special handling or disposal if removed from the building which is referenced below:

- Exterior High-Intensity Discharge Lamps.

The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

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1.0 SITE DESCRIPTION

The subject property is improved with a 138,405 square foot, hospital building reportedly originally constructed in 1959. The hospital building consists of multiple different wings/additions which appear to have been constructed during different renovation periods.

The two-story section of the building which connects the northern one-story and two-story sections with the southern multiple story section of the building is referred to as the connecting building. The connecting building appeared to be of a unique construction compared to the rest of the northern one-story and two-story sections of the building.

ECS's scope of work was limited to the roofs, interior window materials, and exterior areas of the northern one-story and two-story sections of the building. The attached southern medical office building was not included in this scope of work. The sample location drawings attached to the report identify which areas of the building that are excluded from the scope of work. At the time of our survey the northern one-story and two-story sections of the subject building were partially occupied and are currently scheduled to be demolished.

2.0 PURPOSE

The purpose of the Limited Hazardous Materials Survey was to identify asbestos-containing materials (ACMs), lead-based paint (LBP), universal waste and suspect liquid poly-chlorinated biphenyl (PCB) containing equipment in fixtures on the roofs, interior windows, or exterior portions of the northern one-story and two-story sections of the building which may require special handling and/or disposal prior to the planned demolition of the building..

The identification of ACMs may require trained labor, regulated work practices, and special disposal. The identification of LBP or other lead hazards may require disclosure to contractors and monitoring of lead exposure. The identification of other regulated materials such as universal waste may require personal protective equipment, training, special handling, packaging, and disposal.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs), Lead-Based Paints (LBPs), and universal waste and suspect liquid PCB-containing equipment and fixtures.

3.1 Asbestos-Containing Materials

The non-destructive asbestos survey was performed by an asbestos inspector who has received EPA accredited training and is licensed by the Commonwealth of Virginia. Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc. in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. Scientific Analytical Institute, Inc. 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 by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Interior materials which are not associated with the window systems were not included in this survey. ECS was not able to access some interior windows due to building occupancy. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) 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 reported 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.

3.2 Lead in Paint and Surface Coatings

The Lead-Based Paint (LBP) survey was performed by a Commonwealth of Virginia licensed Lead Risk Assessor using a X-Ray Fluorescence (XRF) Spectrometer to identify lead concentrations in painted and glazed surfaces.

The survey was conducted utilizing the U.S. EPA definition of LBP. Under this definition, painted surfaces which contain lead in concentrations equal to or greater than 1.0 milligrams per square centimeter ($\geq 1.0 \text{ mg/cm}^2$) are classified as coated with LBP. Paints with concentrations of lead detectable by the XRF are considered lead-containing paints. Additionally, fixtures or components that are manufactured with a factory applied glazing (i.e., sinks, toilets, ceramic tiles, etc.) are tested as these factory-applied finishes often contain lead. Activities which disturb lead-containing paints and glazing (while not lead-based paints by the U.S. EPA definition) are regulated by OSHA (29 CFR 1926.62).

Because the current or proposed use of the property is not residential or child-occupied, the scope of the LBP survey was not conducted in accordance with HUD Chapter 7 requirements. This representative survey included taking readings from walls, windows, doors, and miscellaneous components. Walls are listed by letter with wall "A" being the entrance of the subject building, proceeding clockwise to "B, C, D", etc.

3.3 Universal Waste and Suspect Liquid PCB-Containing Equipment

ECS performed a visual survey of the building(s) exterior for the presence of universal waste materials and suspect liquid PCB-containing equipment. ECS entered the accessible areas to identify universal waste materials including batteries, stored pesticides, mercury-containing equipment and lamps. Additionally, lamp ballasts suspected of containing PCBs and lead-containing equipment were documented if observed.

No sampling or other characterization was performed as part of this scope of service. Additionally, ECS did not access any energized electrical equipment or other equipment/devices which were in use or that may pose a hazard to ECS personnel or building occupants.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (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. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

Six of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. These materials are summarized below. In total, 182 bulk samples were submitted to the laboratory of which 197 layers were analyzed. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

Summary of Asbestos-Containing Materials Identified

Location	Material Description	Analytical Results	Category	Estimated Quantity
Roof	Multiple Layered Flashing Caulk - Black Caulk Only	7% Chrysotile	Category II Non-Friable	50 LF
Exterior Windows Throughout	Gray Window Glazing	2% Chrysotile	Category II Non-Friable	6,000 LF
Exterior Windows Throughout	Multiple Layered Window Caulk - White Caulk	2% Chrysotile	Category II Non-Friable	3,000 LF
Exterior Doors	Tan Door Caulk	2% Chrysotile	Category II Non-Friable	500 LF
Exterior Soffits	Light Shield Insulation	60% Chrysotile	Friable	6 EA
Interior - Connecting Building Windows	Black Window Glazing	5% Chrysotile	Category II Non-Friable	275 LF

Interior Window Materials:

The section of building which connects the northern one-story and two-story sections with the southern multiple story section of the building appeared to have a distinct window system which is unique to the connecting building. The interior black window glaze on the connecting building windows was reported to contain asbestos. The windows are approximately four feet wide by six feet tall. Including a 20% contingency factor, approximately 275 linear feet of interior black window glazing was observed.

Exterior Materials:

Asbestos-containing multiple layered flashing caulk was observed on the parapet wall adjacent to the southern multiple story section of the building. The asbestos-containing multiple layered flashing caulk appeared to be isolated to the connecting building parapet wall. Including a 20% contingency factor, approximately 50 linear feet of asbestos-containing multiple layered flashing caulk is associated with the parapet wall.

The asbestos-containing exterior gray window glazing was observed on the majority of exterior windows. Including a 20% contingency factor, approximately 6,000 linear feet of asbestos-containing exterior gray window glazing is located on exterior windows of the northern one-story and two-story sections of the building.

The asbestos-containing exterior white window caulk was observed on the majority of exterior windows. Including a 20% contingency factor, approximately 3,000 linear feet of asbestos-containing exterior white window caulk is located on exterior windows of the northern one-story and two-story sections of the building.

The asbestos-containing exterior tan door caulk was observed on several exterior doors. Including a 20% contingency factor, approximately 500 linear feet of asbestos-containing exterior tan door caulk is located on exterior doors around the northern one-story and two-story sections of the building.

An asbestos-containing light shield insulation was observed underneath the several exterior soffits of the building. The asbestos-containing light shield insulation on one of the southeast soffits was observed in a damaged condition. Approximately 6 pieces of light shield insulation were observed on exterior soffits.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, 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, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Based upon our past experience in the identification of ACMs in similarly constructed buildings, the following additional suspect ACMs may also be located in inaccessible areas of the structure:

- Interior Materials within the Northern One-Story and Two-Story Sections of the Building;
- Interior and Exterior Materials of the Southern Multiple Story Section of the Building.

4.3 Lead in Paint and Surface Coatings

Lead-based paint is defined by the Commonwealth of Virginia as any paint or other surface coatings that contain lead greater than or equal to 1.0 mg/cm² by XRF analysis (or 0.5% by weight via bulk paint chip analysis). A list of the materials which were reported to have lead based paint associated with them can be found in the summary table below.

Paint and surface coatings which contain detectable concentrations of lead considered "lead-containing paints". Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead containing. Work performed which may disturb lead-containing paint is regulated under OSHA as referenced under 29 CFR 1926.62. A total of 100 readings were collected during the survey, including calibration readings.

Paint and other surface coatings which are defined by applicable regulation as lead-based paints are summarized in the table below and photographs of lead-based paint identified are located in the Appendix.

Summary of XRF Lead-Based Paint Results

Location	Color	Substrate	Component
Roof	Red	Metal	Beam
Exterior	Dark Gray	Metal	Door Face
Exterior	Dark Gray	Metal	Door Face
Exterior	Brown	Metal	Door Face
Exterior	Brown	Metal	Door Face
Exterior	Gray	Metal	Door Face

4.4 Universal Waste and Liquid Suspect PCB-Containing Equipment

The disposal of fixtures and equipment in buildings which contain various substances such as mercury or lead are regulated by local, state, and federal regulation. Collectively most mercury-containing materials and batteries which may contain lead, along with stored pesticides are classified as "Universal Waste". The disposal of lamp ballasts and electrical transformers which contain suspect PCB-containing oils is also regulated at the state and federal level.

4.4.1 Suspect Polychlorinated Biphenyl (PCB) Containing Ballasts and Equipment

Polychlorinated biphenyls (PCBs) are toxic coolants or lubricating oils used in some electrical transformers and capacitors, hydraulically-operated equipment, light ballasts, and other similar equipment.

As part of our survey, ECS attempted to identify potential liquid PCB containing materials and equipment. At the time of the Limited Hazardous Materials Survey, ECS visually observed several electrical transformers, electrical capacitors, and hydraulically-operated equipment which may contain PCBs.

4.4.2 Mercury-Containing Components

The EPA classifies mercury as both hazardous and toxic. The survey included observations for equipment which could contain mercury, such as thermostats, transformers, fluorescent lamps, and switch-containing devices.

Exterior mounted spot lights should be assumed to contain mercury within the lamps.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Limited Hazardous Materials Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends where a material type has been identified as asbestos containing that other materials with similar color, texture, age and size be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

Asbestos-containing materials to be disturbed as part of the demolition must be properly removed by a Virginia-licensed asbestos abatement contractor prior to disturbance by construction activities. The Commonwealth of Virginia requires 20 calendar-days notice prior to the removal of friable ACM. The EPA requires 10 working days notice prior to removal of regulated ACM (RACM) in quantities greater than or equal to 160 square feet, 260 linear feet, or 35 cubic feet. Notification requirements in general will be dependent on the means/methods used by the contractor to abate these materials.

Federal, state, and local regulations require asbestos-containing materials be removed prior to disturbance by demolition operations. However If the building is to be demolished, by regulation, Category I non-friable materials and in some instances Category II materials may remain in place during demolition under the following provisions: The Contractor must have appropriate training and/or use certified personnel; must notify appropriate state and federal agencies including US EPA (10 Day Demolition Notification), the debris must remain wet during demolition and cannot become friable; the contractor cannot compact the debris once the building is demolished with Category I/II non-friable materials present. Salvage of materials is also prohibited once the building is demolished and Category I/II non-friable materials are mixed in the debris. The landfill receiving the waste must also be notified in writing that it is receiving Category I/II non-friable materials, and it must acknowledge that it can accept this type of waste.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. 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. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may also be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within 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, vapor barriers, pipe trenches and other subsurface utilities, etc.] If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

Should any identified ACM remain in place, ECS recommends the development and implementation of a site-specific Asbestos Operations and Maintenance Plan detailing routine maintenance and repair operations, contractor notification procedures, and all other requirements under OSHA – reference 29 CFR 1926.1101.

5.2 Lead in Paint and Surface Coatings

6.0 LIMITATIONS

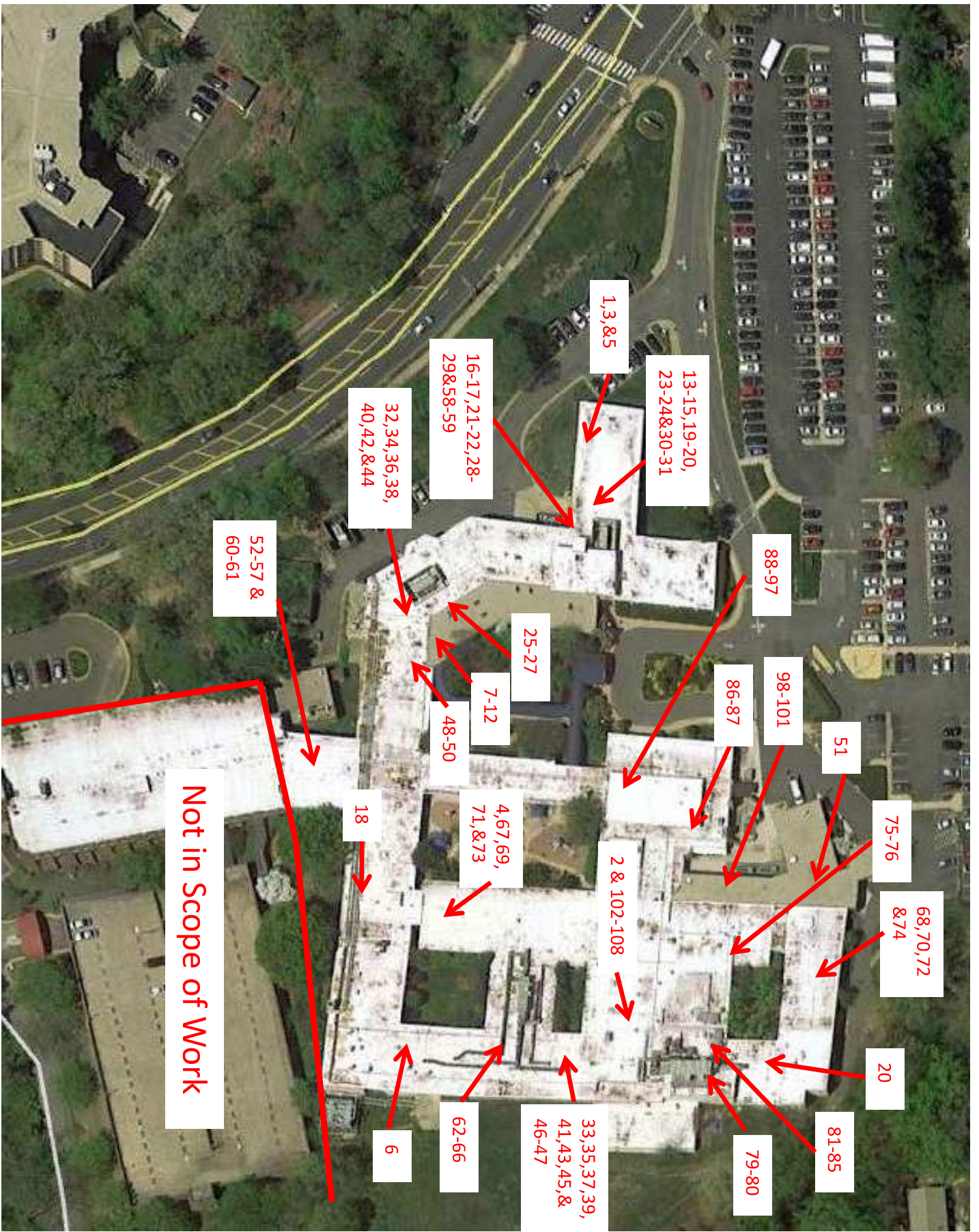
The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards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

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which 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 warranty, expressed or implied, is made.

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.

Our recommendations are in part based on federal, state, 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.

Appendix I: Drawings



VHC Carlin Spring Property
601 S. Carlin Springs Road
Arlington, VA 22204

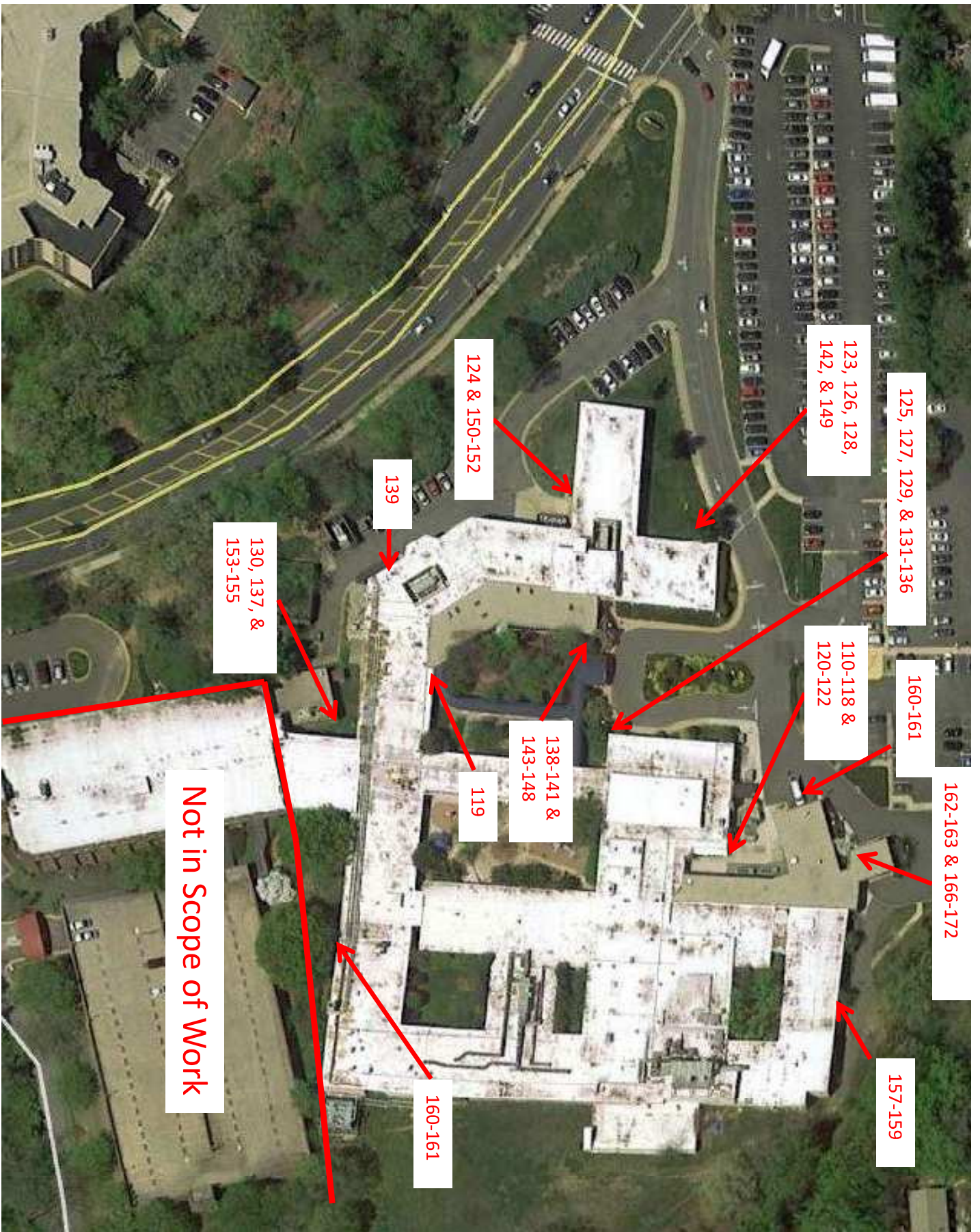


Roof Sampling Locations
 Arlington County –
 Environmental Services

SCALE NTS

Project No. 47:1424-A

Site Visits Oct. 17 & 18, 2019



VHC Carlin Spring Property
601 S. Carlin Springs Road
Arlington, VA 22204



Exterior Sampling Locations
 Arlington County –
 Environmental Services

SCALE: NTS

Project No.: 47-1424-A

Site Visits: Oct. 17 & 18, 2019

Appendix II: Site Photographs



1 - View of the Northern One-Story and Two-Story Sections of the Building.



2 - View of Asbestos-Containing Multiple Layered Flashing Caulk on the Connecting Building Parapet Wall. Sample No. 61.



3 - View of Asbestos-Containing Gray Window Glaze on Exterior Windows. Sample No. 125.



4 - View of Asbestos-Containing White Window Caulk on Exterior Windows. Sample No. 127-B.



5 - View of Asbestos-Containing Tan Door Caulk on Exterior Doors. Sample No. 149.



6 - View of Damaged Asbestos-Containing Light Shield Insulation on Exterior Soffits. Sample No. 164.



7 - View of Asbestos-Containing Interior Black Window Glazing on Connecting Building Windows. Sample No. 179.



8 - View of Lead Based Paint on a Red Metal Beam on the Roof. XRF Reading No. 1031.



9 - View of Lead Based Paint on a Dark Gray Metal Door. XRF Reading Nos. 1050 and 1051.



10 - View of Lead Based Paint on a Brown Metal Door. XRF Reading No. 1056.



11 - View of Lead Based Paint on a Brown Metal Door. XRF Reading No. 1077.

Appendix III: Asbestos Bulk Sample Results



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
1 - A	Roof	White Skylight Caulk/Sealant	NAD
1 - B	Roof	Black Skylight Caulk/Sealant	NAD
2	Roof	Black Skylight Caulk/Sealant	NAD
3	Roof	White Vent Caulk	NAD
4	Roof	White Vent Caulk	NAD
5	Roof	Silver and Black Hood Sealant	NAD
6	Roof	Silver and Black Hood Sealant	NAD
7 - A	Roof	Top Stone Roof Membrane Layer (Black TPO)	NAD
7 - B	Roof	Top Stone Roof Membrane Layer (Felt)	NAD
8	Roof	Top Stone Roof Membrane Layer (Felt)	NAD
9	Roof	Second Stone Roof Membrane Layer (White Light Weight Gypsum)	NAD
10	Roof	Second Stone Roof Membrane Layer (White Light Weight Gypsum)	NAD
11	Roof	Bottom Stone Roof Membrane Layer (Tan Light Weight Gypsum)	NAD
12	Roof	Bottom Stone Roof Membrane Layer (Tan Light Weight Gypsum)	NAD
13 - A	Roof	Textured Soffit Plaster - Finish	NAD
13 - B	Roof	Textured Soffit Plaster - Base	NAD
14	Roof	Textured Soffit Plaster - Single Layer	NAD
15	Roof	Textured Soffit Plaster - Single Layer	NAD
16	Roof	CMU Wall Coating	NAD
17	Roof	CMU Wall Coating	NAD
18	Roof	CMU Wall Coating	NAD
19	Roof	Gray HVAC Duct Sealant	NAD
20	Roof	Gray HVAC Duct Sealant	NAD
21	Roof	Gray CMU Wall Flashing Caulk	NAD
22	Roof	Gray CMU Wall Flashing Caulk	NAD
23	Roof	Multiple Layer Brick Wall Flashing Caulk	NAD

Table Notes:

Bold = Asbestos-Containing Materials
N/A = Not Analyzed
NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
24	Roof	Multiple Layer Brick Wall Flashing Caulk	NAD
25	Roof	White Stucco Sidding	NAD
26	Roof	White Stucco Sidding	NAD
27	Roof	White Stucco Sidding	NAD
28	Roof	Tan Door Caulk	NAD
29	Roof	Tan Door Caulk	NAD
30	Roof	Gray Window Caulk	NAD
31	Roof	Gray Window Caulk	NAD
32	Roof	Top Roof Membrane Layer (White TPO)	NAD
33	Roof	Top Roof Membrane Layer (White TPO)	NAD
34 - A	Roof	Second Roof Membrane Layer (ISO Board) - Felt	NAD
34 - B	Roof	Second Roof Membrane Layer (ISO Board) - Insulation	NAD
35 - A	Roof	Second Roof Membrane Layer (ISO Board) - Felt	NAD
35 - B	Roof	Second Roof Membrane Layer (ISO Board) - Insulation	NAD
36	Roof	Third Roof Membrane Layer (Pitch)	NAD
37	Roof	Third Roof Membrane Layer (Pitch)	NAD
38	Roof	Fourth Roof Membrane Layer (Perlite)	NAD
39	Roof	Fourth Roof Membrane Layer (Perlite)	NAD
40	Roof	Fifth Roof Membrane Layer (Pitch/ISO Board)	NAD
41	Roof	Fifth Roof Membrane Layer (Pitch/ISO Board)	NAD
42	Roof	Sixth Roof Membrane Layer (Gypsum)	NAD
43	Roof	Sixth Roof Membrane Layer (Gypsum)	NAD
44	Roof	Seventh Roof Membrane Layer (Pitch)	NAD
45	Roof	Seventh Roof Membrane Layer (Pitch)	NAD
46	Roof	Bottom Roof Membrane Layer (Gypsum)	NAD
47	Roof	Bottom Roof Membrane Layer (Gypsum)	NAD

Table Notes:

Bold = Asbestos-Containing Materials
N/A = Not Analyzed
NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
48	Roof	Multiple Layer Stucco Wall Sealant	NAD
49	Roof	Multiple Layer Stucco Wall Sealant	NAD
50	Roof	Black Vent Caulk	NAD
51	Roof	Black Vent Caulk	NAD
52 - A	Roof	Top Connector Roof Membrane (TPO)	NAD
52 - B	Roof	Top Connector Roof Membrane (Sealant)	NAD
53 - A	Roof	Top Connector Roof Membrane (TPO)	NAD
53 - B	Roof	Top Connector Roof Membrane (Sealant)	NAD
54 - A	Roof	Bottom Connector Roof Membrane (ISO Board) - Membrane	NAD
54 - B	Roof	Bottom Connector Roof Membrane (ISO Board) - Insulation	NAD
55 - A	Roof	Bottom Connector Roof Membrane (ISO Board) - Membrane	NAD
55 - B	Roof	Bottom Connector Roof Membrane (ISO Board) - Insulation	NAD
56	Roof	Black Parapet Wall Flashing	NAD
57	Roof	Black Parapet Wall Flashing	NAD
58 - A	Roof	CMU Wall Flashing - Flashing Layer	NAD
58 - B	Roof	CMU Wall Flashing - Felt Layer	NAD
59 - A	Roof	CMU Wall Flashing - Flashing Layer	NAD
59 - B	Roof	CMU Wall Flashing - Felt Layer	NAD
60 - A	Roof	Multiple Layered Flashing Caulk - Black Caulk	NAD
60 - B	Roof	Multiple Layered Flashing Caulk - Gray Caulk	NAD
61	Roof	Multiple Layered Flashing Caulk - Black Caulk Only	Asbestos: 7% Chrysotile
62	Roof	Gray Conduit Penetration Caulk	NAD
63	Roof	Gray Conduit Penetration Caulk	NAD
64	Roof	Black HVAC Duct Insulation Wrap/Sealant	NAD
65	Roof	Black HVAC Duct Insulation Wrap/Sealant	NAD
66	Roof	Black HVAC Duct Insulation Wrap/Sealant	NAD

Table Notes:

Bold = Asbestos-Containing Materials
 N/A = Not Analyzed
 NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
67	Roof	Top Roof Membrane Layer (TPO)	NAD
68	Roof	Top Roof Membrane Layer (TPO)	NAD
69 - A	Roof	Second Roof Membrane Layer (ISO Board) - Paper Layer	NAD
69 - B	Roof	Second Roof Membrane Layer (ISO Board) - Insulation Layer	NAD
70 - A	Roof	Second Roof Membrane Layer (ISO Board) - Paper Layer	NAD
70 - B	Roof	Second Roof Membrane Layer (ISO Board) - Insulation Layer	NAD
71	Roof	Third Roof Membrane Layer (Pitch)	NAD
72	Roof	Third Roof Membrane Layer (Pitch)	NAD
73	Roof	Bottom Roof Membrane Layer (Gypsum)	NAD
74	Roof	Bottom Roof Membrane Layer (Gypsum)	NAD
75 - A	Roof	Multiple Layered HVAC Wall Duct Sealant - Black Layer	NAD
75 - B	Roof	Multiple Layered HVAC Wall Duct Sealant - Gray Layer	NAD
76	Roof	Multiple Layered HVAC Wall Duct Sealant - Black Layer Only	NAD
77	Roof	Gray HVAC Sub-Insulation Sealant	Not Submitted
78	Roof	Gray HVAC Sub-Insulation Sealant	Not Submitted
79	Roof	Black Electrical Conduit Sealant	NAD
80	Roof	Black Electrical Conduit Sealant	NAD
81	Roof	Gray HVAC Insulation Wrap	NAD
82	Roof	Gray HVAC Insulation Wrap	NAD
83	Roof	Gray HVAC Insulation Wrap	NAD
84	Roof	White Patching Caulk	NAD
85	Roof	White Patching Caulk	NAD
86	Roof	Black and White Chimney Flashing Caulk	NAD
87	Roof	Black and White Chimney Flashing Caulk	NAD
88 - A	Roof	Top Vaulted Roof Membrane Layer (Asphalt Sheeting)	NAD
88 - B	Roof	Top Vaulted Roof Membrane Layer (Asphalt Sheeting Felt)	NAD

Table Notes:

Bold = Asbestos-Containing Materials
N/A = Not Analyzed
NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
89 - A	Roof	Top Vaulted Roof Membrane Layer (Asphalt Sheeting)	NAD
89 - B	Roof	Top Vaulted Roof Membrane Layer (Asphalt Sheeting Felt)	NAD
90 - A	Roof	Second Vaulted Roof Membrane Layer (Densdeck Membrane)	NAD
90 - B	Roof	Second Vaulted Roof Membrane Layer (Densdeck Insulation)	NAD
91 - A	Roof	Second Vaulted Roof Membrane Layer (Densdeck Membrane)	NAD
91 - B	Roof	Second Vaulted Roof Membrane Layer (Densdeck Insulation)	NAD
92 - A	Roof	Third Vaulted Roof Membrane Layer (ISO Board Felt)	NAD
92 - B	Roof	Third Vaulted Roof Membrane Layer (ISO Board Insulation)	NAD
93 - A	Roof	Third Vaulted Roof Membrane Layer (ISO Board Felt)	NAD
93 - B	Roof	Third Vaulted Roof Membrane Layer (ISO Board Insulation)	NAD
94	Roof	Fourth Vaulted Roof Membrane Layer (Pitch)	NAD
95	Roof	Fourth Vaulted Roof Membrane Layer (Pitch)	NAD
96	Roof	Bottom Vaulted Roof Membrane Layer (Gypsum)	NAD
97	Roof	Bottom Vaulted Roof Membrane Layer (Gypsum)	NAD
98 - A	Roof	Top Roof Membrane Layer (TPO)	NAD
98 - B	Roof	Top Roof Membrane Layer (Felt Paper)	NAD
99 - A	Roof	Top Roof Membrane Layer (TPO)	NAD
99 - B	Roof	Top Roof Membrane Layer (Felt Paper)	NAD
100	Roof	Bottom Roof Membrane Layer (Densdeck)	NAD
101	Roof	Bottom Roof Membrane Layer (Densdeck)	NAD
102	Roof	Top Roof Membrane Layer (Asphalt Sheet)	NAD
103	Roof	Top Roof Membrane Layer (Asphalt Sheet)	NAD
104	Roof	Second Roof Membrane Layer (Gypsum)	NAD
105	Roof	Second Roof Membrane Layer (Gypsum)	NAD
106	Roof	Third Roof Membrane Layer (Pitch)	NAD
107	Roof	Third Roof Membrane Layer (Pitch)	NAD

Table Notes:

Bold = Asbestos-Containing Materials
N/A = Not Analyzed
NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
108	Roof	Bottom Roof Membrane Layer (Gypsum)	NAD
109	Roof	Bottom Roof Membrane Layer (Gypsum)	NAD
110	Exterior - Urgent Care	Black Pipe Packing	NAD
111	Exterior - Urgent Care	Black Pipe Packing	NAD
112	Exterior - Urgent Care	Brown Window Caulk	NAD
113	Exterior - West Side of West Wing	Brown Window Caulk	NAD
114	Exterior - Urgent Care	Red Vent Sealant	NAD
115	Exterior - Urgent Care	Red Vent Sealant	NAD
116	Exterior - Urgent Care	Brown Expansion Joint Caulk	NAD
117	Exterior - Urgent Care	Brown Expansion Joint Caulk	NAD
118	Exterior - Urgent Care	Gray Door Caulk	NAD
119	Exterior - East Side of West Wing	Gray Door Caulk	NAD
120	Exterior - Urgent Care	White Door Caulk	NAD
121	Exterior - Urgent Care	White Door Caulk	NAD
122	Exterior - Urgent Care	CMU Block Coating	NAD
123	Exterior - West Side of West Wing	CMU Block Coating	NAD
124	Exterior - West Side of West Wing	CMU Block Coating	NAD
125	Exterior - East Side of West Wing	Gray Window Glaze	Asbestos: 2% Chrysotile
126	Exterior - West Side of West Wing	Gray Window Glaze	N/A - Positive Stop
127 - A	Exterior - East Side of West Wing	Multiple Layered Window Caulk - Clear Caulk	NAD
127 - B	Exterior - East Side of West Wing	Multiple Layered Window Caulk - White Caulk	Asbestos: 2% Chrysotile
128	Exterior - West Side of West Wing	Multiple Layered Window Caulk - White Caulk	N/A - Positive Stop
129	Exterior - East Side of West Wing	Multiple Layered Expansion Joint Caulk	NAD
130	Exterior - South Side of West Wing	Multiple Layered Expansion Joint Caulk	NAD
131	Exterior - East Side of West Wing	Gray HVAC Unit Caulk	NAD
132	Exterior - East Side of West Wing	Gray HVAC Unit Caulk	NAD

Table Notes:

Bold = Asbestos-Containing Materials
 N/A = Not Analyzed
 NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
135	Exterior - East Side of West Wing	Brick Wall Coating	NAD
136	Exterior - East Side of West Wing	Brick Wall Coating	NAD
137	Exterior - South Side of West Wing	Brick Wall Coating	NAD
138	Exterior - East Side of West Wing	Stucco Siding	NAD
139	Exterior - South Side of West Wing	Stucco Siding	NAD
140	Exterior - East Side of West Wing	Stucco Siding	NAD
141	Exterior - East Side of West Wing	White Wall Packing	NAD
142	Exterior - West Side of West Wing	White Wall Packing	NAD
143	Exterior - East Side of West Wing	Gray Floor Expansion Joint Caulk	NAD
144	Exterior - East Side of West Wing	Gray Floor Expansion Joint Caulk	NAD
147	Exterior - East Side of West Wing	Gray Window Caulk	NAD
148	Exterior - East Side of West Wing	Gray Window Caulk	NAD
149	Exterior - West Side of West Wing	Tan Door Caulk	Asbestos: 2% Chrysotile
150	Exterior - South Side of West Wing	Tan Door Caulk	N/A - Positive Stop
151	Exterior - South Side of West Wing	Multiple Layered Gray Door Caulk	NAD
152	Exterior - South Side of West Wing	Multiple Layered Gray Door Caulk	NAD
153	Exterior - South Side of West Wing	Dark Gray Window Caulk	NAD
154	Exterior - South Side of West Wing	Dark Gray Window Caulk	NAD
155	Exterior - South Side of West Wing	Red Wall Expansion Joint Caulk	NAD
156	Exterior - South Side of West Wing	Red Wall Expansion Joint Caulk	NAD
157	Exterior - North Side of East Wing	Textured Plaster Soffit - Texture Layer Only	NAD
158 - A	Exterior - North Side of East Wing	Textured Plaster Soffit - Texture Layer	NAD
158 - B	Exterior - North Side of East Wing	Textured Plaster Soffit - Base Layer	NAD
159 - A	Exterior - North Side of East Wing	Textured Plaster Soffit - Texture Layer	NAD
159 - B	Exterior - North Side of East Wing	Textured Plaster Soffit - Base Layer	NAD
160	Exterior - Urgent Care	Black Vent Caulk	NAD

Table Notes:

Bold = Asbestos-Containing Materials
 N/A = Not Analyzed
 NAD = No Asbestos Detected



TABLE
SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
161	Exterior - Urgent Care	Black Vent Caulk	NAD
162	Exterior - Urgent Care	Black Door Caulk	NAD
163	Exterior - Urgent Care	Black Door Caulk	NAD
164	Exterior - South Side of East Wing	Light Shield Insulation	Asbestos: 60% Chrysotile
165	Exterior - South Side of East Wing	Light Shield Insulation	N/A - Positive Stop
166	Exterior - Urgent Care Entrance	2' x 4' White Ceiling Tile (New)	NAD
167	Exterior - Urgent Care Entrance	2' x 4' White Ceiling Tile (New)	NAD
168	Exterior - Urgent Care Entrance	2' x 4' White Ceiling Tile (Old)	NAD
169	Exterior - Urgent Care Entrance	2' x 4' White Ceiling Tile (Old)	NAD
170	Exterior - Urgent Care	White and Brown Plaster Soffit	NAD
171	Exterior - Urgent Care	White and Brown Plaster Soffit	NAD
172	Exterior - Urgent Care	White and Brown Plaster Soffit	NAD
173	Interior - Urgent Care	Black Window Glazing	NAD
174	Interior - Urgent Care	Black Window Glazing	NAD
175	Interior - Urgent Care	Gray Window Glazing	NAD
176	Interior - Urgent Care	Gray Window Glazing	NAD
177	Interior - Urgent Care - New Windows	Gray Window Caulk	NAD
178	Interior - Urgent Care - New Windows	Gray Window Caulk	NAD
179	Interior - Connecting Building Windows - #5	Black Window Glazing	Asbestos: 5% Chrysotile
180	Interior - Connecting Building Windows - #5	Black Window Glazing	N/A - Positive Stop
181	Interior - Pediatric Care Windows - #7	White Window Caulk	NAD
182	Interior - Pediatric Care Windows - #7	White Window Caulk	NAD

Table Notes:

Bold = Asbestos-Containing Materials
 N/A = Not Analyzed
 NAD = No Asbestos Detected

Appendix IV: XRF Lead-Based Paint Readings



**TABLE
XRF LEAD PAINT RESULTS**

VHC Carlin Springs Property
ECS Project Number: 47:1424-A
Site Visits: October 17 and 18, 2019

Reading	Room/Location	Side	Color	Substrate	Component	Pb	Pb +/-	Result
October 17, 2019								
1019	Calibration NIST 573					1.0	0.2	Valid
1020	Calibration NIST 573					1.0	0.2	
1021	Calibration NIST 573					1.0	0.2	
1022	Calibration Blank					0.2	0.2	Valid
1023	Calibration Blank					0.1	0.2	
1024	Calibration Blank					0.1	0.2	
1025	Roof	B	White	Brick	Wall	0.1	0.2	Lead-Containing
1026	Roof	B	Red	Metal	Door Face	0.0	0.2	BDL
1027	Roof	B	Red	Metal	Door Frame	0.1	0.2	Lead-Containing
1028	Roof	B	Red	Metal	Beam	0.1	0.2	Lead-Containing
1029	Roof	B	Red	Metal	Beam	0.1	0.2	Lead-Containing
1030	Roof	B	Red	Metal	Beam	0.1	0.2	Lead-Containing
1031	Roof	B	Red	Metal	Beam	5.8	0.2	Lead-Based
1032	Roof	D	Magenta	Brick	Fire Place Chimney Brick	-0.1	0.2	BDL
1033	Roof	D	White	Brick	Fire Place Chimney Brick	-0.1	0.2	BDL
1034	Exterior	A	Black	Metal	Window Frame	0.0	0.2	BDL
1035	Exterior	B	Light Red	Metal	Door Face	0.2	0.2	Lead-Containing
1036	Exterior	B	Light Red	Metal	Door Frame	0.5	0.2	Lead-Containing
1037	Exterior	A	White	Metal	Door Frame	0.0	0.2	BDL
1038	Exterior	A	White	Metal	Door Face	0.0	0.2	BDL
1039	Exterior	A	Brown	Metal	Stair Tread	0.2	0.2	Lead-Containing
1040	Exterior	A	Brown	Metal	Stair Railing	0.0	0.2	BDL
1041	Exterior	A	Brown	Metal	Door Face	0.2	0.2	Lead-Containing
1042	Exterior	A	Brown	Metal	Stair Railing	0.1	0.2	Lead-Containing
1043	Exterior	D	Light Gray	Metal	Door Face	0.1	0.2	Lead-Containing
1044	Exterior	D	Pink	Concrete	Wall	0.0	0.2	BDL
1045	Exterior	D	Light Gray	Metal	Door Face	0.1	0.2	Lead-Containing

Notes: **Bold = Lead Based Paint**
BDL = Below Detection Limit
Pb - Lead per mg/cm2



TABLE
XRF LEAD PAINT RESULTS

VHC Carlin Springs Property
ECS Project Number: 47:1424-A
Site Visits: October 17 and 18, 2019

Reading	Room/Location	Side	Color	Substrate	Component	Pb	Pb +/-	Result
1046	Exterior	D	Light Gray	Metal	Door Frame	0.4	0.2	Lead-Containing
1047	Exterior	C	Brown	Concrete	Wall	0.0	0.2	BDL
1048	Exterior	C	Brown	Metal	Door Face	0.2	0.2	Lead-Containing
1049	Exterior	C	Yellow	Brick	Wall	-0.1	0.2	BDL
1050	Exterior	A	Dark Gray	Metal	Door Face	1.3	0.2	Lead-Based
1051	Exterior	A	Dark Gray	Metal	Door Face	1.2	0.2	Lead-Based
1052	Exterior	B	Dark Gray	Metal	Door Face	0.0	0.2	BDL
1053	Exterior	B	Dark Gray	Metal	Door Face	0.0	0.2	BDL
1054	Exterior	D	Yellow	Concrete	Wall	-0.1	0.2	BDL
1055	Exterior	D	Gray	Metal	Door Face	0.0	0.2	BDL
1056	Exterior	D	Brown	Metal	Door Face	1.2	0.2	Lead-Based
1057	Exterior	D	Brown	Metal	Door Face	1.5	0.2	Lead-Based
1058	Exterior	A	Purple	Metal	Door Face	0.0	0.2	BDL
1059	Exterior	A	Yellow	Metal	Door Face	0.0	0.2	BDL
1060	Exterior	A	Gray	Metal	Door Face	1.5	0.2	Lead-Based
1061	Exterior	D	Gray	Metal	Door Face	0.0	0.2	BDL
1062	Exterior	B	Gray	Metal	Door Face	0.0	0.2	BDL
1063	Exterior	C	White	Metal	Door Face	0.1	0.2	Lead-Containing
1064	Exterior	C	White	Metal	Door Face	0.0	0.2	BDL
1065	Exterior	C	Gray	Metal	Door Face	0.0	0.2	BDL
1066	Exterior	D	Bronze	Metal	Window Frame	0.2	0.2	Lead-Containing
1067	Exterior	D	Bronze	Metal	Window Sill	0.1	0.2	Lead-Containing
1068	Exterior	D	Gray	Metal	Door Face	0.1	0.2	Lead-Containing
1069	Exterior	C	Yellow	Concrete	Wall	0.0	0.2	BDL
1070	Exterior	C	Yellow	Concrete	Wall	-0.2	0.2	BDL
1071	Exterior	C	Light Red	Wood	Door Face	0.9	0.2	Lead-Containing
1072	Exterior	C	Gray	Metal	Door Face	0.1	0.2	Lead-Containing
1073	Exterior	C	Gray	Metal	Stair Railing	0.0	0.2	BDL

Notes: **Bold = Lead Based Paint**

BDL = Below Detection Limit

Pb - Lead per mg/cm²



**TABLE
XRF LEAD PAINT RESULTS**

VHC Carlin Springs Property
ECS Project Number: 47:1424-A
Site Visits: October 17 and 18, 2019

Reading	Room/Location	Side	Color	Substrate	Component	Pb	Pb +/-	Result
1074	Exterior	C	Gray	Metal	Door Face	0.1	0.2	Lead-Containing
1075	Exterior	C	Peach	Concrete	Wall	-0.1	0.2	BDL
1076	Exterior	C	Tan	Metal	Window Frame	-0.1	0.2	BDL
1077	Exterior	B	Brown	Metal	Door Face	1.0	0.2	Lead-Based
1078	Exterior	B	Black	Metal	Window Frame	0.1	0.2	Lead-Containing
1079	Exterior	B	Black	Metal	Door Face	0.1	0.2	Lead-Containing
1080	interior	B	Black	Metal	Window Frame	0.0	0.2	BDL
1081	Interior Reception	B	Black	Metal	Window Sill	-0.1	0.2	BDL
1082	Interior Reception	C	Silver	Metal	Window Sill	-0.2	0.2	BDL
1083	Interior Office	C	Silver	Metal	Window Frame	-0.2	0.2	BDL
1084	Interior Office	C	Silver	Metal	Window Frame	-0.2	0.2	BDL
1085	Interior Office	C	Silver	Metal	Window Frame	-0.1	0.2	BDL
1086	Interior Office	C	Silver	Metal	Window Casing	-0.1	0.3	BDL
1087	Interior Office	C	Silver	Metal	Window Casing	0.2	0.2	Lead-Containing
1088	Interior Hallway	C	Silver	Metal	Window Casing	0.3	0.2	Lead-Containing
1089	Calibration NIST 570					1.0	0.2	Valid
1090	Calibration NIST 571					1.0	0.2	
1091	Calibration NIST 572					0.9	0.2	
1092	Calibration NIST 573					1.0	0.2	
1093	Calibration Blank					0.0	0.2	Valid
1094	Calibration Blank					0.0	0.2	
1095	Calibration Blank					0.0	0.2	
October 18, 2019								
1096	Calibration Blank					0.0	0.2	Valid
1097	Calibration Blank					0.0	0.2	
1098	Calibration Blank					0.1	0.2	
1099	Calibration NIST 571					1.0	0.2	Valid
1100	Calibration NIST 571					1.0	0.2	

Notes: **Bold = Lead Based Paint**
BDL = Below Detection Limit
Pb - Lead per mg/cm2



**TABLE
XRF LEAD PAINT RESULTS**

VHC Carlin Springs Property
ECS Project Number: 47:1424-A
Site Visits: October 17 and 18, 2019

Reading	Room/Location	Side	Color	Substrate	Component	Pb	Pb +/-	Result
1101	Calibration NIST 571					1.0	0.2	
1102	Interior Office	C	Silver	Metal	Window Casing	-0.2	0.2	BDL
1103	Interior Office	C	Silver	Metal	Window Casing	0.1	0.2	Lead-Containing
1104	Interior Office	C	Beige	Wood	Window Casing	-0.1	0.2	BDL
1105	Interior Hallway	C	Silver	Metal	Window Casing	0.1	0.2	Lead-Containing
1106	Interior Office	C	Silver	Metal	Window Casing	0.2	0.2	Lead-Containing
1107	Interior Office	C	Silver	Metal	Window Casing	0.2	0.2	Lead-Containing
1108	Exterior	B	Silver	Metal	Window Frame	0.2	0.2	Lead-Containing
1109	Exterior	C	Silver	Metal	Window Frame	0.3	0.2	Lead-Containing
1110	Exterior	D	Silver	Metal	Window Frame	0.2	0.2	Lead-Containing
1111	Exterior	A	Silver	Metal	Window Frame	0.2	0.2	Lead-Containing
1112	Calibration NIST 573					0.1	0.2	Valid
1113	Calibration NIST 573					0.0	0.2	
1114	Calibration NIST 573					0.0	0.2	
1115	Calibration Blank					1.0	0.2	Valid
1116	Calibration Blank					1.0	0.2	
1117	Calibration Blank					1.0	0.2	

Notes: **Bold = Lead Based Paint**
BDL = Below Detection Limit
Pb - Lead per mg/cm²

Appendix V: Laboratory Report(s)



Bulk Asbestos Analysis

By Polarized Light Microscopy
 EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
 App.E



Customer: ECS Mid-Atlantic, LLC
 14026 Thunderbolt Place
 Suite 100
 Chantilly, VA 20151

Attn: Michael Hamill
 John O'Neil

Lab Order ID: 81926927
Analysis ID: 81926927_PLM
Date Received: 10/19/2019
Date Reported: 10/23/2019

Project: VHC Urgent Care Carlin SpringsACM Survey / 47:1424-A

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1 - A	Black and White Skylight Caulk/Sealant	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_1	white caulk				Ashed
1 - B	Black and White Skylight Caulk/Sealant	None Detected	2% Cellulose	98% Other	Black Non Fibrous Homogeneous
81926927PLM_181	black caulk				Dissolved
2	Black and White Skylight Caulk/Sealant	None Detected	2% Cellulose	98% Other	Black Non Fibrous Homogeneous
81926927PLM_2	black caulk only				Dissolved
3	White Vent Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_3					Ashed
4	White Vent Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_4					Ashed
5	Silver and Black Hood Sealant	None Detected	2% Wollastonite	98% Other	Black, Silver Non Fibrous Homogeneous
81926927PLM_5					Dissolved
6	Silver and Black Hood Sealant	None Detected	2% Wollastonite	98% Other	Black, Silver Non Fibrous Homogeneous
81926927PLM_6					Dissolved
7 - A	Top Stone Roof Membrane Layer (Black TPO with Felt)	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_7	membrane				Ashed

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 as received and may not be reproduced, except in full, without the written approval of SAI. 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%.

Matthew Thomas (152)

Rory Porter (52)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
 EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
 App.E



Customer: ECS Mid-Atlantic, LLC
 14026 Thunderbolt Place
 Suite 100
 Chantilly, VA 20151

Attn: Michael Hamill
 John O'Neil

Lab Order ID: 81926927
Analysis ID: 81926927_PLM
Date Received: 10/19/2019
Date Reported: 10/23/2019

Project: VHC Urgent Care Carlin SpringsACM Survey / 47:1424-A

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
7 - B	Top Stone Roof Membrane Layer (Black TPO with Felt)	None Detected	95% Synthetic Fibers	5% Other	Black Fibrous Homogeneous
81926927PLM_182	felt				Teased
8	Top Stone Roof Membrane Layer (Black TPO with Felt)	None Detected	95% Synthetic Fibers	5% Other	Black Fibrous Homogeneous
81926927PLM_8	felt only				Teased
9	Second Stone Roof Membrane Layer (White Light Weight Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_9					Teased
10	Second Stone Roof Membrane Layer (White Light Weight Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_10					Teased
11	Bottom Stone Roof Membrane Layer (Tan Light Weight Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_11					Teased
12	Bottom Stone Roof Membrane Layer (Tan Light Weight Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_12					Teased
13 - A	Textured Soffit Plaster	None Detected		70% Other 30% Calcium Carbonate	White Non Fibrous Homogeneous
81926927PLM_13	finish				Crushed
13 - B	Textured Soffit Plaster	None Detected		70% Other 30% Quartz	Gray Non Fibrous Homogeneous
81926927PLM_183	base				Crushed

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Matthew Thomas (152)

Rory Porter (52)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
 EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
 App.E



Customer: ECS Mid-Atlantic, LLC
 14026 Thunderbolt Place
 Suite 100
 Chantilly, VA 20151

Attn: Michael Hamill
 John O'Neil

Lab Order ID: 81926927
Analysis ID: 81926927_PLM
Date Received: 10/19/2019
Date Reported: 10/23/2019

Project: VHC Urgent Care Carlin SpringsACM Survey / 47:1424-A

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
14	Textured Soffit Plaster	None Detected		70% Other 30% Calcium Carbonate	White Non Fibrous Homogeneous
81926927PLM_14	single layer plaster				Crushed
15	Textured Soffit Plaster	None Detected		70% Other 30% Calcium Carbonate	White Non Fibrous Homogeneous
81926927PLM_15	single layer plaster				Crushed
16	CMU Wall Coating	None Detected	2% Wollastonite	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_16					Dissolved
17	CMU Wall Coating	None Detected	2% Wollastonite	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_17					Dissolved
18	CMU Wall Coating	None Detected	2% Wollastonite	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_18					Dissolved
19	Gray HVAC Duct Sealant	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_19					Dissolved
20	Gray HVAC Duct Sealant	None Detected	10% Wollastonite	90% Other	White Non Fibrous Homogeneous
81926927PLM_20					Dissolved
21	Gray CMU Wall Flashing Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_21					Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
22	Gray CMU Wall Flashing Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_22					Ashed
23	Multiple Layer Brick Wall Flashing Caulk	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
81926927PLM_23					Ashed
24	Multiple Layer Brick Wall Flashing Caulk	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
81926927PLM_24					Ashed
25	White Stucco Sidding	None Detected	10% Fiber Glass	60% Other 30% Quartz	Gray Non Fibrous Homogeneous
81926927PLM_25					Crushed
26	White Stucco Sidding	None Detected	10% Fiber Glass	60% Other 30% Quartz	Gray Non Fibrous Homogeneous
81926927PLM_26					Crushed
27	White Stucco Sidding	None Detected		60% Other 40% Quartz	Gray Non Fibrous Homogeneous
81926927PLM_27					Crushed
28	Tan Door Caulk	None Detected		100% Other	Tan Non Fibrous Homogeneous
81926927PLM_28					Ashed
29	Tan Door Caulk	None Detected		100% Other	Tan Non Fibrous Homogeneous
81926927PLM_29					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
30	Gray Window Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_30					Ashed
31	Gray Window Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_31					Ashed
32	Top Roof Membrane Layer (White TPO)	None Detected	10% Fiber Glass	90% Other	White Non Fibrous Homogeneous
81926927PLM_32					Ashed
33	Top Roof Membrane Layer (White TPO)	None Detected	10% Fiber Glass	90% Other	White Non Fibrous Homogeneous
81926927PLM_33					Ashed
34 - A	Second Roof Membrane Layer (ISO Board)	None Detected	60% Cellulose 30% Synthetic Fibers	10% Other	Gray Fibrous Homogeneous
81926927PLM_34	felt				Teased
34 - B	Second Roof Membrane Layer (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_184	insulation				Ashed
35 - A	Second Roof Membrane Layer (ISO Board)	None Detected	60% Cellulose 30% Synthetic Fibers	10% Other	Gray Non Fibrous Homogeneous
81926927PLM_35	felt				Ashed
35 - B	Second Roof Membrane Layer (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_185	insulation				Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
36	Third Roof Membrane Layer (Pitch)	None Detected	30% Cellulose 10% Fiber Glass	50% Other 10% Quartz	Black Non Fibrous Heterogeneous
81926927PLM_36					Dissolved
37	Third Roof Membrane Layer (Pitch)	None Detected	30% Cellulose 10% Fiber Glass	60% Other	Black Non Fibrous Heterogeneous
81926927PLM_37					Dissolved
38	Fourth Roof Membrane Layer (Perlite)	None Detected	50% Cellulose	30% Perlite 20% Other	Gray Fibrous Heterogeneous
81926927PLM_38					Teased
39	Fourth Roof Membrane Layer (Perlite)	None Detected	50% Cellulose	30% Perlite 20% Other	Gray Fibrous Heterogeneous
81926927PLM_39					Teased
40	Fifth Roof Membrane Layer (Pitch/ISO Board)	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Heterogeneous
81926927PLM_40					Dissolved
41	Fifth Roof Membrane Layer (Pitch/ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_41					Teased
42	Sixth Roof Membrane Layer (Gypsum)	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
81926927PLM_42					Teased
43	Sixth Roof Membrane Layer (Gypsum)	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
81926927PLM_43					Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
44	Seventh Roof Membrane Layer (Pitch)	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Heterogeneous
81926927PLM_44					Dissolved
45	Seventh Roof Membrane Layer (Pitch)	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Heterogeneous
81926927PLM_45					Dissolved
46	Bottom Roof Membrane Layer (Gypsum)	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
81926927PLM_46					Crushed
47	Bottom Roof Membrane Layer (Gypsum)	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
81926927PLM_47					Crushed
48	Multiple Layer Stucco Wall Sealant	None Detected		100% Other	Black, Silver Non Fibrous Homogeneous
81926927PLM_48					Dissolved
49	Multiple Layer Stucco Wall Sealant	None Detected		100% Other	Tan Non Fibrous Homogeneous
81926927PLM_49					Dissolved
50	Black Vent Caulk	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_50					Ashed
51	Black Vent Caulk	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_51					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
52 - A	Top Connector Roof Membrane (TPO with Sealant)	None Detected		100% Other	White, Gray Non Fibrous Homogeneous
81926927PLM_52	membrane				Ashed
52 - B	Top Connector Roof Membrane (TPO with Sealant)	None Detected		100% Other	Transparent Non Fibrous Homogeneous
81926927PLM_186	caulk				Dissolved
53 - A	Top Connector Roof Membrane (TPO with Sealant)	None Detected		100% Other	White, Gray Non Fibrous Homogeneous
81926927PLM_53	membrane				Ashed
53 - B	Top Connector Roof Membrane (TPO with Sealant)	None Detected		100% Other	Transparent Non Fibrous Homogeneous
81926927PLM_187	caulk				Dissolved
54 - A	Bottom Connector Roof Membrane (ISO Board)	None Detected	50% Cellulose 10% Synthetic Fibers	40% Other	Gray Fibrous Heterogeneous
81926927PLM_54	membrane				Teased
54 - B	Bottom Connector Roof Membrane (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_188	insulation				Teased
55 - A	Bottom Connector Roof Membrane (ISO Board)	None Detected	50% Cellulose 10% Synthetic Fibers	40% Other	Gray Fibrous Heterogeneous
81926927PLM_55	membrane				Teased
55 - B	Bottom Connector Roof Membrane (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_189	insulation				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
56	Black Parapet Wall Flashing	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_56					Dissolved
57	Black Parapet Wall Flashing	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_57					Dissolved
58 - A	CMU Wall Flashing	None Detected	20% Cellulose 10% Fiber Glass	70% Other	Black, Silver Non Fibrous Heterogeneous
81926927PLM_58	flashing				Dissolved
58 - B	CMU Wall Flashing	None Detected	40% Fiber Glass	60% Other	Black Non Fibrous Heterogeneous
81926927PLM_190	felt				Dissolved
59 - A	CMU Wall Flashing	None Detected	20% Cellulose 10% Fiber Glass	70% Other	Black, Silver Non Fibrous Heterogeneous
81926927PLM_59	flashing				Dissolved
59 - B	CMU Wall Flashing	None Detected	40% Fiber Glass	60% Other	Black Non Fibrous Heterogeneous
81926927PLM_191	felt				Dissolved
60 - A	Multiple Layered Flashing Caulk	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_60	black caulk				Ashed
60 - B	Multiple Layered Flashing Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_192	grey caulk				Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
61	Multiple Layered Flashing Caulk	7% Chrysotile		93% Other	Black Non Fibrous Homogeneous
81926927PLM_61	black caulk only				Dissolved
62	Gray Conduit Penetration Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_62					Ashed
63	Gray Conduit Penetration Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_63					Ashed
64	Black HVAC Duct Insulation Wrap/Sealant	None Detected	20% Fiber Glass 10% Wollastonite	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_64					Dissolved
65	Black HVAC Duct Insulation Wrap/Sealant	None Detected	20% Fiber Glass 10% Wollastonite	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_65					Dissolved
66	Black HVAC Duct Insulation Wrap/Sealant	None Detected	20% Fiber Glass 10% Wollastonite	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_66					Dissolved
67	Top Roof Membrane Layer (TPO)	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
81926927PLM_67					Ashed
68	Top Roof Membrane Layer (TPO)	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
81926927PLM_68					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
69 - A	Second Roof Membrane Layer (ISO Board)	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous
81926927PLM_69	paper				Teased
69 - B	Second Roof Membrane Layer (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_193	insulation				Teased
70 - A	Second Roof Membrane Layer (ISO Board)	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous
81926927PLM_70	paper				Teased
70 - B	Second Roof Membrane Layer (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_194	insulation				Teased
71	Third Roof Membrane Layer (Pitch)	None Detected	20% Cellulose	75% Other 5% Quartz	Black Non Fibrous Heterogeneous
81926927PLM_71					Dissolved
72	Third Roof Membrane Layer (Pitch)	None Detected	20% Cellulose	75% Other 5% Quartz	Black Non Fibrous Heterogeneous
81926927PLM_72					Dissolved
73	Bottom Roof Membrane Layer (Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_73					Crushed
74	Bottom Roof Membrane Layer (Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_74					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
75 - A	Multiple Layered HVAC Wall Duct Sealant	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_75	black caulk				Ashed
75 - B	Multiple Layered HVAC Wall Duct Sealant	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_195	grey caulk				Ashed
76	Multiple Layered HVAC Wall Duct Sealant	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_76	black caulk only				Ashed
77	Gray HVAC Sub-Insulation Sealant	Not Submitted			
81926927PLM_77	not submitted				
78	Gray HVAC Sub-Insulation Sealant	Not Submitted			
81926927PLM_78	not submitted				
79	Black Electrical Conduit Sealant	None Detected	5% Cellulose	95% Other	Black Non Fibrous Homogeneous
81926927PLM_79					Dissolved
80	Black Electrical Conduit Sealant	None Detected	5% Cellulose	95% Other	Black Non Fibrous Homogeneous
81926927PLM_80					Dissolved
81	Gray HVAC Insulation Wrap	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Homogeneous
81926927PLM_81					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
82	Gray HVAC Insulation Wrap	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Homogeneous
81926927PLM_82					Ashed
83	Gray HVAC Insulation Wrap	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Homogeneous
81926927PLM_83					Ashed
84	White Patching Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_84					Ashed
85	White Patching Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_85					Ashed
86	Black and White Chimney Flashing Caulk	None Detected		100% Other	White, Black Non Fibrous Homogeneous
81926927PLM_86					Ashed
87	Black and White Chimney Flashing Caulk	None Detected		100% Other	White, Black Non Fibrous Homogeneous
81926927PLM_87					Ashed
88 - A	Top Vaulted Roof Membrane Layer (Asphalt Sheeting)	None Detected	20% Cellulose 10% Fiber Glass	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_88	roofing				Dissolved
88 - B	Top Vaulted Roof Membrane Layer (Asphalt Sheeting)	None Detected	40% Fiber Glass	60% Other	Black Fibrous Heterogeneous
81926927PLM_196	felt				Dissolved

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Matthew Thomas (152)

Rory Porter (52)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
 EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
 App.E



Customer: ECS Mid-Atlantic, LLC
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 Suite 100
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Analysis ID: 81926927_PLM
Date Received: 10/19/2019
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
89 - A	Top Vaulted Roof Membrane Layer (Asphalt Sheeting)	None Detected	20% Cellulose 10% Fiber Glass	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_89	roofing				Dissolved
89 - B	Top Vaulted Roof Membrane Layer (Asphalt Sheeting)	None Detected	40% Fiber Glass	60% Other	Black Fibrous Homogeneous
81926927PLM_197	felt				Dissolved
90 - A	Second Vaulted Roof Membrane Layer (Densdeck)	None Detected	30% Cellulose	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_90	membrane				Dissolved
90 - B	Second Vaulted Roof Membrane Layer (Densdeck)	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous
81926927PLM_198	insulation				Teased
91 - A	Second Vaulted Roof Membrane Layer (Densdeck)	None Detected	30% Cellulose	70% Other	Black Non Fibrous Heterogeneous
81926927PLM_91	membrane				Dissolved
91 - B	Second Vaulted Roof Membrane Layer (Densdeck)	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous
81926927PLM_199	insulation				Teased
92 - A	Third Vaulted Roof Membrane Layer (ISO Board)	None Detected	40% Cellulose 20% Synthetic Fibers	40% Other	Gray Fibrous Heterogeneous
81926927PLM_92	felt				Teased
92 - B	Third Vaulted Roof Membrane Layer (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_200	insulation				Teased

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Lab Sample ID	Lab Notes				Treatment
93 - A	Third Vaulted Roof Membrane Layer (ISO Board)	None Detected	40% Cellulose 20% Synthetic Fibers	40% Other	Gray Fibrous Heterogeneous
81926927PLM_93	felt				Teased
93 - B	Third Vaulted Roof Membrane Layer (ISO Board)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
81926927PLM_201	insulation				Teased
94	Fourth Vaulted Roof Membrane Layer (Pitch)	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Homogeneous
81926927PLM_94					Dissolved
95	Fourth Vaulted Roof Membrane Layer (Pitch)	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Homogeneous
81926927PLM_95					Dissolved
96	Bottom Vaulted Roof Membrane Layer (Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_96					Crushed
97	Bottom Vaulted Roof Membrane Layer (Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_97					Crushed
98 - A	Top Roof Membrane Layer (TPO with Felt Paper)	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_98	membrane				Ashed
98 - B	Top Roof Membrane Layer (TPO with Felt Paper)	None Detected	90% Synthetic Fibers	10% Other	Black Fibrous Homogeneous
81926927PLM_202	felt				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
99 - A	Top Roof Membrane Layer (TPO with Felt Paper)	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_99	membrane				Ashed
99 - B	Top Roof Membrane Layer (TPO with Felt Paper)	None Detected	90% Synthetic Fibers	10% Other	Black Fibrous Homogeneous
81926927PLM_203	felt				Teased
100	Bottom Roof Membrane Layer (Densdeck)	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous
81926927PLM_100					Teased
101	Bottom Roof Membrane Layer (Densdeck)	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous
81926927PLM_101					Teased
102	Top Roof Membrane Layer (Asphalt Sheet)	None Detected	10% Cellulose 5% Synthetic Fibers	85% Other	Black Non Fibrous Heterogeneous
81926927PLM_102					Dissolved
103	Top Roof Membrane Layer (Asphalt Sheet)	None Detected	10% Cellulose 5% Synthetic Fibers	85% Other	Black Non Fibrous Heterogeneous
81926927PLM_103					Dissolved
104	Second Roof Membrane Layer (Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_104					Crushed
105	Second Roof Membrane Layer (Gypsum)	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_105					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
106	Third Roof Membrane Layer (Pitch)	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Heterogeneous
81926927PLM_106					Dissolved
107	Third Roof Membrane Layer (Pitch)	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Heterogeneous
81926927PLM_107					Dissolved
108	Bottom Roof Membrane Layer (Gypsum)	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
81926927PLM_108					Crushed
109	Bottom Roof Membrane Layer (Gypsum)	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
81926927PLM_109					Crushed
110	Black Pipe Packing	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_110					Ashed
111	Black Pipe Packing	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_111					Ashed
112	Brown Window Caulk	None Detected		100% Other	Brown Non Fibrous Homogeneous
81926927PLM_112					Dissolved
113	Brown Window Caulk	None Detected		100% Other	Brown Non Fibrous Homogeneous
81926927PLM_113					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
114	Red Vent Sealant	None Detected		100% Other	Red Non Fibrous Homogeneous
81926927PLM_114					Ashed
115	Red Vent Sealant	None Detected		100% Other	Red Non Fibrous Homogeneous
81926927PLM_115					Ashed
116	Brown Expansion Joint Caulk	None Detected		100% Other	Brown Non Fibrous Homogeneous
81926927PLM_116					Dissolved
117	Brown Expansion Joint Caulk	None Detected		100% Other	Brown Non Fibrous Homogeneous
81926927PLM_117					Dissolved
118	Gray Door Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_118					Ashed
119	Gray Door Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_119					Ashed
120	White Door Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_120					Ashed
121	White Door Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
81926927PLM_121					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
122	CMU Block Coating	None Detected	3% Wollastonite	97% Other	Gray Non Fibrous Homogeneous
81926927PLM_122					Crushed
123	CMU Block Coating	None Detected	3% Wollastonite	97% Other	Gray Non Fibrous Homogeneous
81926927PLM_123					Crushed
124	CMU Block Coating	None Detected	3% Wollastonite	97% Other	Gray Non Fibrous Homogeneous
81926927PLM_124					Crushed
125	Gray Window Glaze	2% Chrysotile		98% Other	Gray Non Fibrous Homogeneous
81926927PLM_125					Crushed
126	Gray Window Glaze	Not Analyzed			
81926927PLM_126					
127 - A	Multiple Layered Window Caulk	None Detected		100% Other	Transparent Non Fibrous Homogeneous
81926927PLM_127	clear caulk				Ashed
127 - B	Multiple Layered Window Caulk	2% Chrysotile		98% Other	White Non Fibrous Homogeneous
81926927PLM_204	white caulk				Crushed
128	Multiple Layered Window Caulk	Not Analyzed			
81926927PLM_128	white caulk only				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
129	Multiple Layered Expansion Joint Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_129					Ashed
130	Multiple Layered Expansion Joint Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_130					Ashed
131	Gray HVAC Unit Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_131					Ashed
132	Gray HVAC Unit Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_132					Ashed
135	Brick Wall Coating	None Detected		90% Other 10% Calcium Carbonate	White Non Fibrous Homogeneous
81926927PLM_133					Dissolved
136	Brick Wall Coating	None Detected		90% Other 10% Calcium Carbonate	White Non Fibrous Homogeneous
81926927PLM_134					Dissolved
137	Brick Wall Coating	None Detected		90% Other 10% Calcium Carbonate	White Non Fibrous Homogeneous
81926927PLM_135					Dissolved
138	Stucco Siding	None Detected		80% Other 20% Quartz	Gray Non Fibrous Heterogeneous
81926927PLM_136					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
139	Stucco Siding	None Detected		80% Other 20% Quartz	Gray Non Fibrous Heterogeneous
81926927PLM_137					Dissolved
140	Stucco Siding	None Detected		80% Other 20% Quartz	Gray Non Fibrous Heterogeneous
81926927PLM_138					Dissolved
141	White Wall Packing	None Detected	2% Cellulose	98% Other	White Non Fibrous Homogeneous
81926927PLM_139					Ashed
142	White Wall Packing	None Detected	2% Cellulose	98% Other	White Non Fibrous Homogeneous
81926927PLM_140					Ashed
143	Gray Floor Expansion Joint Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_141					Ashed
144	Gray Floor Expansion Joint Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_142					Ashed
147	Gray Window Caulk	None Detected	2% Cellulose	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_143					Ashed
148	Gray Window Caulk	None Detected	2% Cellulose	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_144					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
149	Tan Door Caulk	2% Chrysotile		98% Other	Tan Non Fibrous Homogeneous
81926927PLM_145					Dissolved
150	Tan Door Caulk	Not Analyzed			
81926927PLM_146					
151	Multiple Layered Gray Door Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_147					Ashed
152	Multiple Layered Gray Door Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_148					Ashed
153	Dark Gray Window Caulk	None Detected	2% Fiber Glass	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_149					Ashed
154	Dark Gray Window Caulk	None Detected	2% Fiber Glass	98% Other	Gray Non Fibrous Homogeneous
81926927PLM_150					Ashed
155	Red Wall Expansion Joint Caulk	None Detected		100% Other	Red Non Fibrous Homogeneous
81926927PLM_151					Ashed
156	Red Wall Expansion Joint Caulk	None Detected		100% Other	Red Non Fibrous Homogeneous
81926927PLM_152					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
157	Textured Plaster Soffit	None Detected		70% Other 20% Calcium Carbonate 10% Quartz	White Non Fibrous Heterogeneous
81926927PLM_153	texture only				Crushed
158 - A	Textured Plaster Soffit	None Detected		70% Other 20% Calcium Carbonate 10% Quartz	White Non Fibrous Heterogeneous
81926927PLM_154	texture				Crushed
158 - B	Textured Plaster Soffit	None Detected		70% Other 30% Quartz	Gray Non Fibrous Heterogeneous
81926927PLM_179	base				Crushed
159 - A	Textured Plaster Soffit	None Detected		70% Other 20% Calcium Carbonate 10% Quartz	White Non Fibrous Heterogeneous
81926927PLM_155	texture				Crushed
159 - B	Textured Plaster Soffit	None Detected		70% Other 30% Quartz	Gray Non Fibrous Heterogeneous
81926927PLM_180	base				Crushed
160	Black Vent Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_156					Ashed
161	Black Vent Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_157					Ashed
162	Black Door Caulk	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_158					Ashed

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Customer: ECS Mid-Atlantic, LLC
 14026 Thunderbolt Place
 Suite 100
 Chantilly, VA 20151

Attn: Michael Hamill
 John O'Neil

Lab Order ID: 81926927
Analysis ID: 81926927_PLM
Date Received: 10/19/2019
Date Reported: 10/23/2019

Project: VHC Urgent Care Carlin SpringsACM Survey / 47:1424-A

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
163	Black Door Caulk	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_159					Ashed
164	Light Shield Insulation	60% Chrysotile	20% Cellulose	20% Other	Gray Fibrous Heterogeneous
81926927PLM_160					Teased
165	Light Shield Insulation	Not Analyzed			
81926927PLM_161					
166	2' x 4' White Ceiling Tile (New)	None Detected	40% Cellulose 30% Mineral Wool	20% Perlite 10% Other	Beige Fibrous Heterogeneous
81926927PLM_162					Teased
167	2' x 4' White Ceiling Tile (New)	None Detected	40% Cellulose 30% Mineral Wool	20% Perlite 10% Other	Beige Fibrous Heterogeneous
81926927PLM_163					Teased
168	2' x 4' White Ceiling Tile (Old)	None Detected	15% Cellulose 2% Fiber Glass	83% Other	Gray Non Fibrous Heterogeneous
81926927PLM_164					Teased
169	2' x 4' White Ceiling Tile (Old)	None Detected	15% Cellulose 2% Fiber Glass	83% Other	Gray Non Fibrous Heterogeneous
81926927PLM_165					Teased
170	White and Brown Plaster Soffit	None Detected		70% Other 20% Calcium Carbonate 10% Quartz	White Non Fibrous Heterogeneous
81926927PLM_166					Crushed

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Matthew Thomas (152)

Rory Porter (52)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
 EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
171	White and Brown Plaster Soffit	None Detected		70% Other 20% Calcium Carbonate 10% Quartz	White Non Fibrous Heterogeneous
81926927PLM_167					Crushed
172	White and Brown Plaster Soffit	None Detected		70% Other 20% Calcium Carbonate 10% Quartz	White Non Fibrous Heterogeneous
81926927PLM_168					Crushed
173	Black Window Glazing	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_169					Ashed
174	Black Window Glazing	None Detected		100% Other	Black Non Fibrous Homogeneous
81926927PLM_170					Ashed
175	Gray Window Glazing	None Detected		80% Other 20% Calcium Carbonate	Gray Non Fibrous Homogeneous
81926927PLM_171					Dissolved
176	Gray Window Glazing	None Detected		80% Other 20% Calcium Carbonate	Gray Non Fibrous Homogeneous
81926927PLM_172					Dissolved
177	Gray Window Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_173					Ashed
178	Gray Window Caulk	None Detected		100% Other	Gray Non Fibrous Homogeneous
81926927PLM_174					Ashed

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Bulk Asbestos Analysis

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Project: VHC Urgent Care Carlin Springs ACM Survey / 47:1424-A

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
179	Black Window Glazing	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
81926927PLM_175					Ashed
180	Black Window Glazing	Not Analyzed			
81926927PLM_176					
181	White Window Caulk	None Detected	2% Cellulose	98% Other	White Non Fibrous Homogeneous
81926927PLM_177					Ashed
182	White Window Caulk	None Detected	2% Cellulose	98% Other	White Non Fibrous Homogeneous
81926927PLM_178					Ashed

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